



ANNUAL REPORT 2023-2024



TEZPUR UNIVERSITY

ANNUAL REPORT

(2023-24)

**(Approved by the Board of Management vide
Resolution No. B.121/2024/4/2.1, dated 29.11.2024)**



TEZPUR UNIVERSITY

Napaam, Tezpur – 784 028

Sonitpur, Assam

CONTENTS

	Page
Vice-Chancellor's Message	5-6
Gist of the Annual Report 2023-24	7
Statistics of the Year	8
Overview of Tezpur University	10
Statutory Bodies	13-41
<i>The Board of Management</i>	14
<i>The Planning Board</i>	16
<i>The Academic Council</i>	18
<i>The Finance Committee</i>	21
<i>The Building Committee</i>	22
Financial Profile 2023-24	24
Academic Section	26
Internal Quality Assurance Cell	32
The Report of the Proctor's Office	35
Research and Development Cell	36
Training and Placement Cell	38
 Academic Departments and Centres	
 <i>School of Engineering</i>	 42-156
<i>Report of the Dean, School of Engineering</i>	43
<i>Department of Applied Sciences</i>	46
<i>Department of Civil Engineering</i>	55
<i>Department of Computer Science and Engineering</i>	62
<i>Department of Design</i>	79
<i>Department of Electrical Engineering</i>	82
<i>Department of Electronics and Communication Engineering</i>	96
<i>Department of Energy</i>	111
<i>Department of Food Engineering and Technology</i>	125
<i>Department of Mechanical Engineering</i>	143
 <i>School of Humanities and Social Sciences</i>	 157-287
<i>Report of the Dean, School of Humanities and Social Sciences</i>	158
<i>Department of Assamese</i>	160
<i>Department of Hindi</i>	173
<i>Department of Cultural Studies</i>	181
<i>Department of Education</i>	192
<i>Department of Foreign Languages</i>	220
<i>Department of Law</i>	225
<i>Department of Linguistic and Language Technology</i>	233
<i>Department of English</i>	252
<i>Department of Social Work</i>	258
<i>Department of Sociology</i>	266
<i>Department of Mass Communication and Journalism</i>	274

<i>School of Management Sciences</i>	288-315
Report of the Dean, School of Management Sciences	289
Department of Business Administration	290
Department of Commerce	296
Centre for Disaster Management	307
Tezpur University Intellectual Property Rights Cell	309
<i>School of Sciences</i>	316-413
Report of the Dean, School of Sciences	317
Department of Environmental Science	319
Department of Mathematical Sciences	334
Department of Molecular Biology and Biotechnology	349
Department of Physics	371
Department of Chemical Sciences	384
Centre for Distance and Online Education (CDOE)	414
Teaching Learning Centre	423
Chandraprabha Saikiani Centre for Women Studies	437
Central Facilities	433-464
Central Library	434
Centre for Inclusive Development	437
Computer Centre	439
Health Centre	443
Centre for Innovation Incubation and Entrepreneurship	445
Sophisticated Analytical Instrumentation Centre (SAIC)	447
The Centre for Endangered Languages	449
The Horticulture Centre	453
Publication Centre	459
Department of Vocational Studies and Skill Development	460
DST-funded Technology Enabling Centre (DST-TEC)	462
Centre for Yoga and Sports Science	464



Professor Shambhu Nath Singh
Vice-Chancellor



Tezpur University

(A Central University)

Tezpur 784028, Assam

- **Visitor's Best University Award 2016**
- **NIRF India Rankings 2016: 05**
- **Accredited with 'A+' Grade by NAAC**
- **THE Asia Rankings 2018: 100**

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Prof. Shambhu Nath Singh
Vice Chancellor

FROM THE VICE-CHANCELLOR'S DESK

It is my pleasure to present the Annual Report of Tezpur University for the year 2023-24. This report provides a comprehensive overview of the University's activities and achievements during the year.

Tezpur University, established in 1994, has evolved into a prestigious institution offering a wide range of undergraduate and postgraduate programmes across various disciplines. During the reported year, the University admitted students to 80 academic programmes across 28 departments. The University also offered programmes under Open Distance Learning (ODL) mode.

The University conducted Tezpur University Entrance Examinations (TUEE) for admission to most of the programmes. Students were also selected through CUET and GATE scores. A total of 13861 applications were received for various programmes, and 1757 students were admitted, with 44.20% being female students. The University reserved seats for OBC (NCL), SC, ST, EWS, and PWD categories. The total student strength during the year was 4772, with 23.87% from reserved categories.

I am happy to inform that the University initiated steps to implement NEP 2020 from the academic session 2023-24. The integrated master's programmes were synchronized with the Curriculum and Credit Framework for Undergraduate Programmes (CCFUP). Value-Added, Skills Enhancement, Multidisciplinary, and Ability Enhancement Courses were also introduced as per NEP 2020. The University implemented the multiple entry and exit points in the academic programmes. The National Curriculum and Credit Framework for Undergraduate Programs (NCCFUG) and National Higher Education Qualification Framework (NHEQF) were adopted for postgraduate programmes.

Let me give a brief overview of our research, which is a cornerstone of any higher education. During the year, the University forwarded 171 research proposals to various funding agencies. A total of 31 new projects were sanctioned. The ongoing research projects included 16

international collaborative projects. The faculty members published a good number of research papers in peer-reviewed journals.

In terms of consultancy and fellowships, the total amount earned through consultancy projects during the year was Rs. 91.58 lakh. A total of 61 scholars were recipients of various external fellowships.

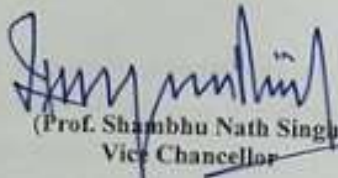
During the reported financial year, the University received a total amount of Rs. 15830.00 lakh under Grants-in-aid: Recurring, Salary, Creation of Capital Assets. The University also generated Rs.2087.07 lakh as Internal Receipts. Thus, the total fund available during the year was Rs.17917.07 lakh. Against the same, an amount of Rs.17207.85 lakh was spent during the year 2023-24 and Rs 30.46 lakh was pulled back by RBI on 31.03.2024, leaving an unspent balance of Rs. 579.96 lakh as on 01.04.2024. In addition, the University has received Rs 1534.55 lakh towards grants for Extramural Research Projects and the University has utilised Rs 2099.55 lakh including the carry over fund of the previous year for such research projects.

Throughout the period, the University actively engaged in various outreach activities to connect with the local community and contribute towards the societal development. The University participated in Unnat Bharat Abhiyan, Vikashit Bharat initiatives by organizing workshops and seminars on relevant topics for the community, conducting awareness campaigns, working with the underprivileged, organized blood donation drives etc. The Teaching Learning Centre trained more than 1800 teachers and prospective teachers during the period. The Centre also conducted Science Teachers' Training Programme for 1200 secondary level teachers of Government and Government Provincialized schools of Assam.

The past year has witnessed a remarkable journey of academic excellence and innovation. We are committed to providing quality education and research opportunities to our students and contributing to society's development.

Date: 23/01/2025

Place: Tezpur



(Prof. Shambhu Nath Singh)
Vice Chancellor

GIST OF THE ANNUAL REPORT 2023-24***University Profile:***

Name of the University	: Tezpur University
State	: Assam
Address	: Napam, Tezpur, District-Sonitpur, Assam-784028, INDIA
Year of Establishment	: 1994
Type of University	: Central and Unitary
Vice-Chancellor	: Professor Shambhu Nath Singh
Registrar	: Dr. Biren Das

Highlights of the Year

<i>Academic Departments</i>	: 28
<i>Academic Centres</i>	: 18
<i>Academic Programmes</i>	: 80
Students	
<i>Female Students</i>	: 2663
<i>Male Students</i>	: 2116
<i>International Students</i>	: 13
Teachers	
<i>Female Teachers</i>	: 76
<i>Male Teachers</i>	: 199
<i>Teachers (General)</i>	: 140
<i>Teachers (SC/ST/OBC)</i>	: 135
Non-teaching employees	
<i>Female Employees</i>	: 34
<i>Male Employees</i>	: 227
<i>Non-teaching employees (General)</i>	: 146
<i>Non-teaching employees (SC/ST/OBC)</i>	: 115
<i>Sponsored ongoing projects</i>	: 203
<i>New projects sanctioned</i>	: 31
<i>International collaborative research projects (Ongoing)</i>	: 17
<i>Journal paper published</i>	: 738
<i>Book chapters authored</i>	: 129
<i>Books authored</i>	: 22
<i>Seminar/Workshops organized by various Departments/Centres</i>	: 556
<i>Total number of students qualified NET, SLET, GATE, TET, AIBE</i>	: 191
<i>(Indicative)</i>	
<i>Patents</i>	: 45 (Published-3; Granted-12)

STATISTICS OF THE YEAR

Employees (Teaching)

Category	Present as on 01-04-2023	Joined during 2023 – 2024	Left during 2023 – 2024	Present as on 31-03-2024
<i>Professor</i>	87	0	4	83
<i>Associate Professor</i>	35	0	0	35
<i>Assistant Professor</i>	151	6	0	157
Total	273	6	4	275

Employees (Non-teaching)

Category	Present as on 01-04- 2023	Joined during 2023 – 2024	Left during 2023 – 2024	Present as on 31-03-2024
<i>Group-A</i>	33	2	2	33
<i>Group-B</i>	56	1	2	55
<i>Group-C</i>	93	12	0	105
<i>Group-C (MTS)</i>	67	2	1	68
Total	249	17	5	261

SC/ST and Female/Male Employees (Teaching)

Category	SC	OBC	ST	Gen	EWS	Female	Male	Total
<i>Professor</i>	11	17	6	49	0	11	72	83
<i>Associate Professor</i>	5	7	3	20	0	8	27	35
<i>Assistant Professor</i>	24	44	15	71	3	57	100	157
Total	40	68	24	140	3	76	199	275

SC/ST and Female/Male Employees (Non-Teaching)

Category	SC	OBC	ST	Gen	EWS	Female	Male	Total
<i>Group-A</i>	5	9	1	17	1	3	30	33
<i>Group-B</i>	7	8	3	37	0	11	44	55
<i>Group-C</i>	13	29	5	58	0	16	89	105
<i>Group-C (MTS)</i>	10	18	5	34	1	4	64	68
<i>Total</i>	35	64	14	146	2	34	227	261

Students

Total		Open		SC		ST		OBC		EWS		PWD	
M	F	M	F	M	F	M	F	M	F	M	F	M	F
2663	2116	1303	1051	328	215	194	180	627	519	211	151	12	4

Note: *M=Male, F=Female*

OVERVIEW OF TEZPUR UNIVERSITY

Tezpur University, established in 1994 by an Act of the Parliament has completed three decades of its existence. Over the years, the University has evolved into a prestigious higher educational institution offering a diverse range of undergraduate and postgraduate programmes across various disciplines, including Science, Engineering, Management and Humanities and Social Sciences.

The General overview of the University for the reported year 2023-24 is given below:

During the reported year, students were admitted to 80 different programmes of studies across 28 departments. The University offered academic programmes at the Undergraduate (Degree/Diploma/Certificate), Integrated, Postgraduate (Degree/Diploma), and Doctoral levels in four schools: School of Engineering, School of Humanities & Social Sciences, School of Sciences, and School of Management Sciences. The University also offered 6 programmes under Open Distance Learning (ODL) mode during the reported year.

The University conducted Tezpur University Entrance Examinations (TUEE) for admission to majority of the programmes, except for Master of Business Administration, M.Sc. in Molecular Biology and Biotechnology and B. Tech at 29 designated centres across the country. The University also selected students on the basis of CUET score for some UG & PG programmes.

For B. Tech, selection for admissions was made based on All India Rank (CRL) of the JEE (Main) conducted by the NTA. 60% of the total seats were filled up by the candidates of NE states. Admission to the remaining seats was made through the Central Counselling conducted by the JoSAA/CSAB.

GATE-qualified candidates were directly admitted to the M. Tech programmes based on merit of GATE scores. Some non-GATE candidates were also admitted to the M. Tech programmes based on the performance in the TUEE. For admission to MBA programme, candidates were selected based on the score of National tests such as MAT/CAT/XAT/ATMA/GMAT/CMAT and Personal Interview. Admission to M.Sc. in Molecular Biology and Biotechnology was made based on the score of GAT-B - 2023 conducted by NTA.

Candidates of PhD programmes were selected based on the performance in TUEE 2023 and Personal Interview conducted by the concerned Departments.

A total of 13861 applications were received through online mode for various programme of studies. The number of candidates admitted to various programmes was 1757 of which 44.20% were female students. The University reserved seats for the OBC (NCL), SC, ST, EWS and PWD categories as per the Govt. of India rules.

The total strength of the students in the university during the reporting period was 4772 and the percentage of reserved category students were 23.87% for OBC-NCL, 11.34% for SC,

7.80% for ST, 7.56% for EWS and 0.34% (PWD). The total number of foreign students at the University was 13.

Overall, 80.97% of the students were from the state of Assam, while 18.76% students were from the rest of the country, while 0.27% were international students.

The University initiated implementing National Education Policy 2020 (NEP) from the academic session 2023-24. The integrated masters' programmes of the University are synchronized with the requirements of the Curriculum and Credit Framework for Undergraduate Programmes (CCFUP) integrating the 4-year degree program as per NEP-2020. The University also introduced Value-Added, Skills Enhancement, Multidisciplinary and Ability Enhancement Courses as per NEP 2020.

The multiple entry and exit points in the academic programmes offered at Higher Education Institutions (HEIs) as mandated by NEP was implemented by the University through an Equivalence committee.

As per the NEP 2020, the University adopted and implemented the National Curriculum and Credit Framework for Undergraduate Programs (NCCFUG) and National Higher Education Qualification Framework (NHEQF) for Postgraduate program from the Academic Session 2023-24.

The 21st Convocation of the University was held on 31.12.2023, where Shri Rajnath Singh, Hon'ble Defence Minister of India graced the occasion as the Chief Guest. A total of 1350 passed-out students, including from Centre for Open and Distance Learning received the degrees and Diplomas in the Convocation. In addition to this, 44 Gold Medals were awarded to other toppers of UG and PG programmes in the Convocation. There were 63 students who were awarded PhD degrees in the Convocation.

During the reported year, the University forwarded 171 research proposals for consideration of approval to various funding agencies. During the period, 31 new projects were sanctioned. The ongoing research projects included 16 international collaborative projects of which two projects are under Indo-UK, two with Indo-French Centre for the Promotion of Advanced Research (CEFIPRA), two with Nottingham University, one with Pamoja Cleantech AB, Sweden, one with ERASMUS (Indo-Greece-Italy), one with Indo-ASEAN, three with Indo-USA, two with Indo-Germany, one with Indo-Japan and one with Queens' University Belfast. The faculty members have published a good number of research papers in peer-reviewed national and international journals.

Total amount earned through consultancy projects during the year was ~ Rs. 91.58 Lakh. This amount was earned as consultancy fee by individual faculty as well as by the departments of various Schools. During the period a total of 61 scholars were the recipient of various external fellowships.

The students, researchers and faculty members of the University kept their best efforts up. Some of the notable achievements are highlighted here. The Assam Science, Technology and

Environment Council (ASTEC) conferred Lifetime Achievement award to Prof. Kishori Mohan Pathak, a noted physicist and the founding Vice Chancellor of Tezpur University for his contribution to the field of Physics. Dr Moon Moon Devi, faculty member of Department of Physics was awarded the 'Young Scientist/Innovator' title by ASTEC for achieving highest level of excellence in the field of Science & Technology. Dr. Subrat Jyoti Neog, faculty member from the Department of Assamese has received the prestigious Assam State Film Award, 2023. Dr Moushumi Kandali, faculty member, Department of Cultural Studies received the prestigious South Asia edition of the Laadli Media and Advertising Award to mention a few.

The students and research scholars during the mentioned period performed well in Academic and Co-curricular activities. Ms. Reema Borah, A PhD Research Scholar of the Department of Cultural Studies bagged the award for the Best Film on Social Issues of the 69th National Film Awards 2021. Mr. Arjun Roy, a student from the Department of Electrical Engineering has received the prestigious State NSS Award, Assam 2021-22 in the Republic Day celebration held on January 26, 2024. Mr Janmejy Sarkar, a PhD scholar of Department of Physics was a part of a team that developed SUIT module of India's space mission ADITYA-L1 of ISRO.

During the financial year, the University received a total amount of Rs. 15830.00 lakh under Grants-in-aid: Recurring, Salary, Creation of Capital Assets. The University also generated Rs.2087.07 lakh as Internal Receipts which is a part of Grants-in-Aid: Recurring. Thus, the total fund available during the year was Rs.17818.27 lakh. Against the same, an amount of Rs.17207.85 lakh was spent during the year 2023-24 and Rs 30.46 lakh was pulled back by RBI on 31.03.2024, leaving an unspent balance of Rs. 579.96 lakh as on 01.04.2024. In addition, the University has received Rs 1534.55 lakh towards grants for Extramural Research Projects and the University has utilised Rs 2099.55 lakh including the carry over fund of the previous year for such research projects.

The University during the reported period, through Teaching Learning Centre engaged in training more than 1800 teachers and prospective teachers from across the country. The Centre guided and encouraged them to promote best practices in the teaching-learning environment. The Centre also conducted Science Teachers' Training Programme for 1200 secondary level teachers of Government and Government Provincialised schools of Assam.

The University, during the period, organized several workshops, seminars, sporting, cultural, and commemorative events that lifted the spirit of the TU community. For instance, the Annual Meet showcased the talent and skill of the students. Other notable events included the hosting of InSciignis, the annual science festival observed on the occasion of National Science Day. The University also celebrated Republic Day, Independence Day, Gandhi Jayanti, Ambedkar Jayanti, National Unity Day, Constitution Day, etc., to inculcate a spirit of nationalism, patriotic feelings, and scientific temper.

This annual report tries to provide an overview of the University's diverse activities, including extension and outreach programs, skill development initiatives, placement achievements, and other significant accomplishments. These details are presented throughout the report.

THE STATUTORY BODIES

- The Board of Management
- The Planning Board
- The Academic Council
- The Finance Committee
- The Building Committee

THE BOARD OF MANAGEMENT

Vice Chancellor	Chairman
Dr. T David Singh, Associate Professor Dept. of Chemistry Dept. of Basic Science and Humanities, NIT Manipur, Imphal	Member
Prof. Pradip Lingfa Department of Mechanical Engineering NERIST, Itanagar, Arunachal Pradesh	Member (till 21.01.2024)
Prof. Sudeshna Bhattacharjya Department of Sanskrit Gauhati University, Guwahati	Member
Dr. Milan Rani Jamatiya, Associate Professor Department of Hindi Tripura University, Agartala	Member
Dr. Joyanti Chutia Former Director, IASST, Guwahati	Member (till 28.07.2023)
Prof. Anita Priyadarshini IGNOU, New Delhi	Member (w.e.f. 29.07.2023)
Prof. Debajit Hazarika Dean, School of Sciences	Member (till 30.11.2023)
Prof. Farheena Danta Dean, School of HSS	Member (w.e.f. 19.12.2023)
Prof. Tarun Kr. Maji Department of Chemical Sciences	Member
Dr. Tridib Ranjan Sarma Department of Business Administration	Member
Shri Rathijit Chakraborty Department of Foreign Languages	Member
Finance Officer	Permanent Invitee
Controller of Examinations	Permanent Invitee

Alumni representatives

Prof. K. M. Baharul Islam, IIM Kashipur

Special Invitee

Sri Sourav Dutta, Kolkata, West Bengal

Special Invitee

Student Representatives

Mr. Hritwik Bora, Research Scholar

Special Invitee

Ms. Sandhyatora Saikia, PG Student

Special Invitee

Registrar

Ex officio Secretary

THE PLANNING BOARD

Vice Chancellor	Ex officio Chairman
Dean, School of Humanities and Social Sciences	Ex officio Member
Dean, School of Sciences	Ex officio Member
Dean, School of Management Sciences	Ex officio Member
Dean, School of Engineering	Ex officio Member
Dean, Students' welfare	Ex officio Member
Dean, Research and Development	Ex officio Member
Dean, Planning & Development	Ex officio Member
Dean, Academic Affairs	Special Invitee

Six teachers nominated by the Academic Council

Prof. D. K. Saikia Department of Computer Science & Engineering	Member (till 31.01.2024)
Dr. Akhilesh Kumar Department of Education	Member (w.e.f. 21.02.2024)
Prof. Nashreen S. Islam Department of Chemical Sciences	Member
Prof. Jiten Ch. Dutta Department of Electronics and Communication Engineering	Member
Dr. Anjan Bhuyan Department of Business Administration	Member
Dr. Rupak Mukhopadhyay Department of Molecular Biology and Biotechnology	Member (till 31.08.2023)
Dr. S. I. Singh Department of Computer Science & Engineering	Member (till 12.07.2023)
Dr. Nirmali Gogoi	Member

Department of Environmental Science

(w.e.f. 22.12.2023)

Dr. Rahat Mahboob

Member

Department of Electrical engineering

(w.e.f. 22.12.2023)

One Representative of Ministry of Education

Joint Secretary (Central University)

Member

Ministry of Education

Department of Higher Education, New Delhi

One Representative of UGC

Prof. S. B. Agarawal

Member

Department of Botany, Faculty of Science

Banaras Hindu University

Varanasi, Uttar Pradesh

One Representative of NEC

Director (HRD & E)

Member

NEC, Nongrim Hill,

Shillong- 793003

One Representative of State Govt. of Assam

Commissioner and Secretary

Member

Department of Higher Education, Govt. of Assam

Dispur, Guwahati-781006

Two Nominees by the Board of Management

Prof. Saket Kushwaha

Member

Vice Chancellor

Rajiv Gandhi University

Arunachal Pradesh

Prof. Bhabesh Ch. Goswami

Member

Former Vice Chancellor

Cotton University, Guwahati

Controller of Examinations

Permanent Invitee

Finance Officer

Permanent Invitee

Librarian

Permanent Invitee

Registrar

Ex officio Secretary

THE ACADEMIC COUNCIL

Vice Chancellor	Ex-officio Chairman
Dean, School of Management Sciences	Ex officio Member
Dean, School of Humanities and Social Sciences	Ex officio Member
Dean, School of Engineering	Ex officio Member
Dean, School of Sciences	Ex officio Member
Dean, Students' Welfare	Ex officio Member
Dean, Research and Development	Special Invitee
Dean, Academic Affairs	Special Invitee

Two Professors nominated by the Vice Chancellor

Prof. C. L. Mahanta Department of Food Engineering & Technology	Member
Prof. B. K. Konwar Department of Molecular Biology and Biotechnology	Member (till 24.07.2023)
Prof. Robin K. Dutta Department of Chemical Sciences	Member (w.e.f. 25.07.2023)

All Heads of Departments/Centres

Head, Department of English	Ex officio Member
Head, Department of Foreign Languages	Ex officio Member
Head, Department of Linguistics and Language Technology	Ex officio Member
Head, Department of Cultural Studies	Ex officio Member
Head, Department of Sociology	Ex officio Member
Head, Department of Mass Communication and Journalism	Ex officio Member
Head, Department of Education	Ex officio Member
Head, Department of Social Work	Ex officio Member
Head, Department of Hindi	Ex officio Member
Head, Department of Law	Ex officio Member
Head, Department of Assamese	Ex officio Member
Head, Department of Business Administration	Ex officio Member
Head, Department of Commerce	Ex officio Member
Head, Department of Mathematical Sciences	Ex officio Member
Head, Department of Physics	Ex officio Member
Head, Department of Chemical Sciences	Ex officio Member
Head, Department of Molecular Biology and Biotechnology	Ex officio Member
Head, Department of Environmental Science	Ex officio Member
Head, Department of Computer Science and Engineering	Ex officio Member
Head, Department of Electronics & Communication Engineering	Ex officio Member
Head, Department of Food Engineering & Technology	Ex officio Member

Head, Department of Energy	Ex officio Member
Head, Department of Mechanical Engineering	Ex officio Member
Head, Department of Civil Engineering	Ex officio Member
Head, Department of Electrical Engineering	Ex officio Member
Head, Department of Design	Ex officio Member
Head, Department of Applied Sciences	Ex officio Member
Head, Computer Centre	Ex officio Member
Head, Centre for Disaster Management	Ex officio Member
Head, Women Studies Centre	Ex officio Member
Head, Centre for Distance and Online Education	Ex officio Member
Head, Centre for Inclusive Development	Ex officio Member

Two Associate Professors Nominated by the Vice Chancellor

Dr. Anjan Bhuyan Department of Business Administration	Member (till 25.10.2023)
Dr. Juri Gogoi Konwar Department of Cultural Studies	Member (w.e.f 26.10.2023)
Dr. Bhim Pd. Sarmah Department of Mathematical Sciences	Member (till 24.07.2023)
Dr. Debasish Mahapatra Department of English	Member (w.e.f 25.07.2023)

Two Assistant Professors Nominated by the Vice Chancellor

Dr. Riku Chutia Department of Electronics and Communication Engineering	Member (till 24.07.2023)
Dr. Reetamoni Narzary Department of English	Member (till 24.07.2023)
Dr. Polash Pratim Dutta Department of Mechanical Engineering	Member (25.07.2023 to 25.10.2023)
Dr. Sarmistha Das Department of Sociology	Member (w.e.f. 25.07.2023)
Dr. Hitesh Sharma Department of Education	Member (w.e.f. 26.10.2023)

Three Nominees of the Board of Management

Prof. Gautam Barua Director, IIIT Guwahati Guwahati, Assam	Member (till 21.05.2023)
Prof. R M Pant Vice Chancellor	Member (w.e.f. 22.05.2023)

ANNUAL REPORT 2023-24, TEZPUR UNIVERSITY

Assam University, Silchar

Prof. Ajanta Buragohain Rajkonwar
Vice Chancellor
Assam Women's University
Jorhat, Assam

Member

Prof. N. C. Talukdar
Former Director, IASST, Guwahati, Assam
Vice Chancellor, Assam down town University
Guwahati, Assam

Member
(till 02.11.2023)

Prof. A K Mukherjee
Director, IASST, Guwahati

Member
(w.e.f. 03.11.2023)

One Representative of Ministry of Education

Vacant

One Representative of UGC

Prof. Madhoolika Agrawal
Fellow, National Academy of Sciences
CAS Department of Botany
Banaras Hindu University
Varanasi, Uttar Pradesh

Member

One Representative of NEC

Director (HRD & E)
North Eastern Council (NEC)
Shillong-793003

Member

One Representative of State Govt. of Assam

Commissioner & Secretary / Principal Secretary In-charge
Department of Higher Education
Govt. of Assam, Guwahati-781006

Ex officio member

Controller of Examinations

Ex officio Member

Librarian

Ex officio Member

Registrar

Ex officio Secretary

THE FINANCE COMMITTEE

Vice Chancellor	Chairman
Joint Secretary and Financial Advisor, MoE or his/her nominee from Finance Bureau of MoE Not below the rank of Deputy Secretary	Member
Joint Secretary (CU&L) of MoE or his/her nominee not below the rank of Joint Secretary to the Govt. of India	Member
Joint Secretary (CU), UGC or any other Joint Secretary level officer nominated by the Chairman, UGC	Member
Mr. S Vasum, IAAS Deputy Comptroller and Auditor General of India (Retd.) Dimapur, Nagaland	Member (till 30.01.2024)
Shri Pratap Keshari Das Finance Officer, Sikkim University	Member (w.e.f. 08.02.2024)
Prof. Ramesh Kumar Pandey Vice Chancellor Shri Lal Bahadur Shastri National Sanskrit University New Delhi - 110016	Member
Prof. Debajit Hazarika Dean, School of Sciences	Member (till 19.02.2024)
Prof. Farheena Danta Dean, School of HSS	Member (w.e.f. 20.02.2024)
Finance Officer	Ex officio Secretary

THE BUILDING COMMITTEE

Vice Chancellor	Ex officio Chairman
Prof. D. K. Saikia Department of Computer Science & Engineering	Member (till 31.01.2024)
Prof. Saket Kushwaha Vice Chancellor RGU, Arunachal Pradesh	Member (w.e.f. 21.02.2024)
Dean, Planning & Development	Member
Prof. Utpal Sarma Department of Computer Science & Engineering	Member (till 27.07.2023)
Prof. R. R. Hoque Department of Environmental Science	Member (till 27.07.2023)
Prof. Utpal Kr. Das Department of Civil Engineering	Member (w.e.f. 31.10.2023)
Prof. P. P. Sahu Department of ECE	Member (w.e.f. 31.10.2023)
Finance Officer, Tezpur University	Ex officio Member
Head, Department of Civil Engineering Tezpur University	Ex officio Member
Chief Engineer, PWD (Bld), Assam or his/her nominee who is not below the rank of Supdt. Engineer	Ex officio Member
Er. Alok Ranjan Borah Superintendent Engineer (Retd)	Member (till 27.07.2023)
Chief Engineer CPWD, Shillong, Meghalaya	Member (w.e.f. 31.10.2023)
Superintendent Engineer (Electric) PWD (Elect), Guwahati Electric Division Guwahati, Assam	Ex officio Member
Superintendent Engineer (PHE) Tezpur Circle, Assam	Ex officio Member

ANNUAL REPORT 2023-24, TEZPUR UNIVERSITY

Executive Engineer Tezpur University	Ex officio Member
Shri Amal Barman Deputy Director, Office of the Chief Engineer (Bldg) Guwahati, Assam	Member (till 27.07.2023)
Mr. D Saikia Sr. Architect, PWD, Assam	Member (till 27.07.2023)
Architect, CPWD Shillong, Meghalaya	Member (w.e.f. 31.10.2023)
Senior Architect I APWD (B), Guwahati, Assam	Member
Assistant Horticulturist, Tezpur University	Ex officio Member
Registrar, Tezpur University	Ex officio Member Secretary

FINANCIAL PROFILE 2023-24

The Annual Accounts of the University are maintained in five parts: Part-I deals with Recurring and Salary Funds, Part-II for transactions related to Funds under Non-Recurring and Other Schemes, Part-III for Earmarked Funds and Extramural Research Projects, Part-IV for transactions related to Debts and Deposits Account and Part-V for maintenance of Provident Funds. The accounts for the year 2023-24 have been prepared in such formats as prescribed by the Ministry of Education, Govt. of India with the concurrence of the Comptroller and Auditor General of India, on double entry book-keeping system of accounting on accrual basis with relevant Indian Accounting Standards.

Opening balance at the beginning of the financial year 2023-24 was (-) Rs. 98.80 lakh. During the year 2023-24, the University received a total amount of Rs. 15830.00 lakh under Grants-in-aid: Recurring, Salary, Creation of Capital Assets. The University also generated Rs.2087.07 lakh as Internal Receipts which is a part of Grants-in-Aid: Recurring. Thus, the total fund available during the year was Rs.17818.27 lakh. Against the same, an amount of Rs.17207.85 lakh was spent during the year 2023-24 and Rs 30.46 lakh was pulled back by RBI on 31.03.2024, leaving an unspent balance of Rs. 579.96 lakh as on 01.04.2024. In addition, University has received Rs 1534.55 lakh towards grants for Extramural Research Projects and the University has utilised Rs.2099.55 lakh including the carry-over fund of the previous year for such research projects.

The following statement represents the Receipts and Expenditure for the year 2023-24 at a glance.

RECEIPTS			EXPENDITURE		
Particulars	Amount	Total Amount	Particulars	Amount	Total Amount
A) Opening Balance		(-) 98.80	A) Expenditure		
B) Grants Received			I. Recurring Expenditure	5552.25	
I. Grants-in-Aid (Recurring)	4000.00		II. Salary Expenditure	10986.06	
II. Grants-in-Aid (Salary)	11130.00		III. Expenditure for Creation of Capital Assets	669.54	17207.85
II. Grants-in-Aid (Creation of Capital Assets)	700.00	15830.00	Pulled back by RBI		30.46
C) Internal Receipts		2087.07	Closing Balance		579.96
Grand Total		17818.27	Grand Total		17818.27

PERSONNEL

Finance Officer

CMA Dr. Braja B. Mishra

M.Com., LL.B., FMSPI, FICAI, DCO, PGDFM, PGDIM,

MBA (Finance), Ph.D.

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Dy. Registrar (Finance)

Kumarjit Dutta

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Assistant Registrar (Finance) Offi.

Sarat Ch. Konwar

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Section Officer (Finance)

Samar Kakati

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PA to Finance Officer

Baby Newar

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Junior Accountant

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Upper Division Clerk

Brindaban Borah

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Upper Division Clerk

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Junior Accountant

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Upper Division Clerk

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Lower Division Clerk

Manoj Chakraborty

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Multi-Tasking Staff

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Multi-Tasking Staff

Bikash Jyoti Das

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Multi-Tasking Staff

Ananda Rabha

Email: rabhaa@tezu.ernet.in

ACADEMIC SECTION

About the Section

The Academic Section deals with examinations, result declarations and other academic matters. This office also got involved in various committees viz, Academic Council, Research Committee, etc and took action on the decisions of the committees. The Academic Council meetings were organised with Controller of Examinations as Member Secretary on 30.12.2023, 17.11.2023 and 24.05.2023 and Research Committee meeting on 19.10.2023 and 24.05.2024.

Officers and Staff Members

Designation	Name	<email>	Date of holding the current position
<i>Controller of Examinations</i>	Prof. S. C. Deka	sankar	16/08/2022
<i>Joint Registrar</i>	Hridoy Saikia	hridoy	29/03/2016
<i>Assistant Registrar</i>	Deba Kumar Bharali	dkrb	07/04/2022
<i>Section Officer</i>	Biren Sharma	birens	17/05/2019
<i>System Analyst</i>	Debasish Das	ddas	06/06/1997
<i>Jr. Programmer</i>	Jamil Ahmed	jamil	31/07/2018
	Pranita S Talukdar	pranita	17/05/2023
	Ajanta Pathak	pathaka	12/06/2013
	Dwipendra Ch. Das	rdas	01/05/2013
<i>Steno (Gr. II)</i>	Arunjyoti Das	arundas	28/04/2021
<i>UDC</i>	Prohelika Hazarika	rimjhim	08/08/2023
	Debajyoti Saikia	debajyoti	01/01/2008
	Bhaben Saikia	bhaben	29/12/2023
	Rupjyoti Das	rupjyoti	26/10/2015

Program of Study

During 2023-24, 80 different programs were offered for admission in 28 Departments. The programs were:

- *Ph.D Programs*: Chemical Sciences, Environmental Science, Molecular Biology & Biotechnology, Mathematical Sciences, Physics, Computer Science & Engineering, Civil Engineering, Electronics & Communication Engineering, Energy, Food Engineering & Technology, Mechanical Engineering, Electrical Engineering, Applied Sciences, Business Administration, Commerce, English, Hindi, Mass Communication and Journalism, Education, Sociology, Social Work, Cultural Studies, Assamese , Linguistics and Language Technology, Women Study, and Multidisciplinary Research.
- *M.Tech. Programs*: Information Technology, Electronics Design & Technology, Bioelectronics, Food Engineering & Technology, Mechanical Engineering, Civil Engineering, Energy Technology, Computer Science & Engineering.
- *M.Sc. Programs*: Physics, Chemistry, Mathematics, Molecular Biology & Biotechnology, Environmental Science.

- *M.A. Programs:* English, Linguistics & Language Technology, Cultural Studies, Mass Communication & Journalism, Sociology, Hindi, Social Work, Education, Communication for Development and Assamese.
- *5-years Integrated M.Sc. Programs:* Physics, Chemistry, Mathematics and Life Science.
- *5-years Integrated M.Com. Programs:* Commerce
- *5-year Integrated M.A. Program:* English.
- *4 years B.Sc. B.Ed. program:* Chemistry, Mathematics, Physics
- *B. Tech. programs:* CSE, ECE, EE, ME, Civil Engg., FET and Lateral Entry in CSE, ECE, EE, ME, Civil Engg., FET,
- *Other Professional programs:* MBA, MBA (Executive), MCA, LLM, M. Com., MTTM, B.Ed., M. Des.
- *PG Diploma programs:* PG Diploma in Translation Hindi, PG Diploma in Women's Studies.
- *Certificate programs:* One year Certificate in Chinese, One Semester Certificate in NCCMP.

Admission

The University conducted national level entrance examination (TUEE: Tezpur University Entrance Examinations) for admission to all the program of study (except for MBA, M.Sc. in MBBT and B.Tech.) during 26th, 27th and 28th May, 2023 at the 29 designated centers across the country.

For B. Tech., selection for admissions was made based on All India Rank (CRL) of the JEE (Main) conducted by the NTA. Sixty percent of the total seats were filled up by the candidates of NE states on the production of Permanent Residence Certificate (PRC) issued by the Competent Authority of NE states. Counselling and admission of the shortlisted candidates for NE reserved seats were held at Tezpur University, and reservation was followed as per GoI rules. Admission to the remaining seats was made through the Central Counselling conducted by the JoSAA/CSAB.

GATE-qualified candidates were directly admitted to the M. Tech. Programs based on merit of GATE scores. Some Non-GATE candidates were also admitted to the M. Tech programs based on the performance in the TUEE. For admission to MBA program, candidates were selected based on the score of National tests such as MAT/CAT/XAT/ATMA/GMAT/CMAT and Personal Interview. Admission to M. Sc. in Molecular Biology and Biotechnology was made based on the score of GAT-B - 2023 conducted by NTA.

Candidates of PhD programs were selected based on the performance in TUEE 2023 and PI conducted by the concerned Departments.

Twenty-four students were admitted under the Defence Quota as per Govt of India policy.

A total of 13861 applications were received through online mode for various programs of studies. The number of candidates admitted to various programs was 1757 out of intake 2015, of which 44.20% were female students. The University reserved seats for the OBC (NCL), SC, ST, EWS and PWD categories as per the Govt. of India rules.

As on September 2023, the total strength of the students in the university was 4772 and the percentage of reserved category students on the campus were 23.87% (OBC-NCL), 11.34% (SC), 7.80% (ST), 7.56% (EWS) and 0.34% (PWD). The total number of foreign students at the University was 13.

Overall, 80.97% of the students were from the state of Assam, while 18.76% students were from the rest of the country. **International – 0.27%**

Implementation of NEP-2020

National Education Policy 2020 has introduced from the academic session 2023-24. The integrated masters' programs of the University are synchronized with the requirements of the CCFUP integrating the 4-year degree program as per NEP-2020 and introduction of Value Added Courses, Skills Enhancement Courses, Multidisciplinary Courses and Ability Enhancement Courses. The University offered 23 nos. of Value Added Courses(VAC), 30 nos. of Skill Enhancement Courses (SEC), 31 nos. of Multidisciplinary Courses(MDC) and 08 nos. of Ability Enhancement Courses(AEC) for the students admitted for the Integrated programs from the academic session 2023-24.

The multiple entry and exit points in the academic programs offered at Higher Education Institutions (HEIs) introduced by NEP was implemented by the University through a Equivalence committee. Two applications were received for admission in the MBA and Integrated M.Sc. in Physics program in the year 2023 under Multiple Entry. However, both applicants could not submit the required documents and fulfill the required criteria set by the University.

As per the NEP 2020, the university adopted and implemented the National Curriculum and Credit Framework for Undergraduate Programs (NCCFUG) and National Higher Education Qualification Framework(NHEQF) from the Academic Session 2023-24.

The university also adopted SAMARTH eGOV portal. So far 03 nos. (Program Management/ Student Management/ Evaluation and Grading) of SAMARTH Academic module implemented. Details of the admitted students are uploaded in the Students' Life Cycle module of the SAMARTH portal.

A total of 1803 nos. of students' APAAR ID were created in the academic year 2023-24 and 7706 nos. of results/ credit completed data of the students mapped with NAD-Digilocker in the academic year 2023-24.

Classes, Examinations and Results

Classes of newly admitted students in the Academic session 2023-24 were conducted from 3rd August 2023 for newly admitted students except undergraduate programs admitted through CUET-UG. The classes of integrated programs admitted through CUET-UG started from 18th August 2023.

The Spring Semester (Even Semester) End Examinations, 2023 were conducted during the period from 19.06.2023 to 28.06.2023 (for 2nd Semester) and from 22.05.2023 to 06.06.2023 for the higher semester. The results were declared on 22.06.2023 for intermediate and final semester and on 06.07.2023 for 2nd Semester. The Autumn Semester (Odd Semester) End Examinations, 2023 were conducted during 04.12.2023 to 15.12.2023, and the results were declared on 05.01.2024.

As many as 1222 nos. of final (last) semester students appeared in the Spring semester examinations in the year 2023, and 97.79% of the students passed the examinations.

Convocation

The 21st Convocation was held on 31.12.2023 and Shri Rajnath Singh, Hon'ble Defence Minister of India, graced the convocation as the Chief Guest and delivered the Gold Medals to the program toppers and Best Graduate and Best Postgraduate of the year 2023. Honourable Education Minister of Assam, Dr. Ranoj Pegu were also present at the ceremony and addressed to the dignitaries and awardees.

A total of 1350 passed-out students, including passed out from Centre for Open and Distance Learning, were eligible to receive the degrees and Diplomas in the Convocation. In addition to this, 44 Gold Medals were awarded to other toppers of UG and PG programs in the Convocation. The Best Graduate medal was awarded to Mr. Arjun Roy (Roll no. EEB19006) of B. Tech program in Electrical Engineering program and the Best Postgraduate medal was awarded to Mr. Koustuv Moni Bora ((Roll No. CHI18005) of Integrated M.Sc. program in Chemistry program. There were 63 students who were awarded PhD degrees in the Convocation.

Free Studentship and Fellowship/Scholarship

As many as 26 (twenty-three) students belonging to the BPL family were awarded free studentship in the Spring Semester 2024 and 33 (thirty-three) students for Autumn Semester 2024. As per the free studentship guidelines, they were exempted from paying any fees except a Caution deposit, Medical Insurance fees and hostel menial Charge.

Fresh applications for non-NET fellowship were also scrutinized, and 174 PhD students were awarded the non-NET fellowship. During the year as many as 436 PhD students (fresh and continuing) availed the non-NET fellowship from the University. Fifteen students of M. Tech program have received a GATE scholarship in the year 2023-24. Forty-seven students of M. Sc in Molecular Biology and Biotechnology were awarded DBT Stipend. Applications of many students were forwarded to NSP for Ishan Uday Scholarship, Post Metric Scholarship for SC, ST and OBC students, National Scholarship for Postgraduate Studies, AICTE Pragati Scholarship Scheme for Girls Students (Technical Degree), Post Matric Scholarship for Students with Disabilities, Central Sector Scheme of Scholarship for College and University Students, AICTE – Saksham Scholarship Scheme for Specially Abled Student(Technical Degree), Financial Support to the Students of NER for Higher Professional Courses (NEC Merit Scholarship).

INTERNAL QUALITY ASSURANCE CELL

About the Cell

As mandated by NAAC (National Assessment and Accreditation Council), Tezpur University Internal Quality Assurance Cell (TU IQAC) is engaged in a series of activities required to foster the spirit of quality among the individuals and Departments/Sections of the University. Besides working for assured quality assessment for the career advancement of faculty members, IQAC also carries out capacity- building activities to support quality teaching-learning and assist feedback and mentoring exercises. IQAC meetings are organized at regular interval for deliberations on significant issues concerning quality with monitoring of the follow-up actions. University's annual activities are appropriately accounted for in the Annual Quality Assurance Report (AQAR) prepared by IQAC.

Notable activities organized by IQAC:

- A series of Orientation Meeting for Data requirement and subsequent submission for all Rankings and Accreditation to ensure smooth acquisition of required data with all the major stakeholders of the University was organized during 03 to 10 November 2023.
- 5 Days Workshop on Hands-on Training on Scientific Document Writing using LaTeX and Awareness Programme on Research and Publication Ethics among the Research Scholars and Faculty Members of Tezpur University in collaboration with MMTTC, Tezpur University was organized during 19 – 23 March 2024.
- A Meeting on Placement and Higher Studies Data of graduate students of the Departments with the Departmental placement/ alumni coordinator was organized on 12 December 2023.
- A Meeting regarding submission of NIRF 2024 data for Engineering & Management Category with the Dean School of Engineering, Dean School of Management Sciences and all the Heads of the Departments under the School of Engineering and School of Management Sciences was organized on 15 December 2023.
- A Meeting regarding final Submission of NIRF 2024 (Engineering & Management) with the Dean School of Engineering, Dean School of Management Sciences and all the Heads of the Departments under the School of Engineering and School of Management Sciences was organized on 22 December 2023.
- A meeting regarding Final Submission of NIRF2024 (Overall category) with all Deans, Heads of the Departments/Centres, and Officers of the University was

organized on 12 January 2024.

- A Meeting regarding submission of QS World University Rankings 2025 cycle with all Deans, Heads of the Departments/Centres, and Officers of the University was organized on 08 February 2024.
- A Meeting regarding review and submission of data for AISHE2022-2023 cycle with all Deans, Heads of the Departments/Centres, and Officers was organized on 28 February 2024.
- A Meeting regarding review and submission of data for Times Higher Education (WUR) World University Rankings 2024 with all Deans, Heads of the Departments/Centres, and Officers was organized on 27 March 2024.

Notable participations of the Director, IQAC:

- Weeklong Short-Term Training Program on “Enhancing Administrative Skills” (for teaching and non-teaching staff)- Director, IQAC, Tezpur University addressed in the event as the Resource Person organized by MMTTC, Tezpur University during 24-30 May 2023.
- Attended as NAAC Peer Team Member for NAAC Accreditation of B.L.D.E.A's Vachana Pitamaha Dr. P.G. Halakatti College of Engineering and Technology, Vijayapura, Karnataka 586103 during 07-08 December 2023.
- Attended the Workshop on Ranking Improvement of Higher education Institutions in QS held on 08 December 2023.
- Attended the workshop session on the CAS module organized by SAMARTH, IIC, Delhi University held on 13 December 2023.
- Conducting of Academic & Administrative Audit (AAA) for Kaliabor College- Director, IQAC, Tezpur University addressed in the event as the Chairperson held on 23 December 2023.
- Attended the review meeting regarding NIRF 2024 pre-submission of data for Overall Category held on 10 January 2024.
- Attended the Review meeting on the National Education Policy (NEP) 2020 held on 30 January 2024 at Assam Administrative Staff College, Khanapara, Guwahati.

- Attended the QS Workshop through video conferencing under the Chairmanship of Secretary (HE), Government of India held on 02 February 2024.
- Attended a Meeting for drafting guidelines for incorporating Indian Knowledge System in Higher Education Curricula at University level in the light of NEP2020 held on 14 February 2024.
- A session on the topic "Internal Quality Assessment" in the Online Faculty Induction Program organized by MMTTC, Tezpur University (formerly TLC, Tezpur University) during 15 February to 15 March 2024- Director, IQAC, Tezpur University addressed in the event as the Resource Person.
- Assam Science Society, Tezpur branch, in association with IIC and Department of Zoology, Darrang College, Tezpur, has organized a popular talk on a topic related to the theme of the National Science Day "Indigenous Technologies for Viksit Bharat", for undergraduate and postgraduate students- Director, IQAC, Tezpur University addressed in the event as the Resource Person held on 28 February 2024.
- Attended the Nurturing Leadership in Higher Education of India program of MoE held during March 11-15, 2024, at IIM Mumbai.
- Attended a Webex meeting: NAAC Reforms-Stakeholder Consultation-North-Eastern Region organized by National Assessment and Accreditation Council (NAAC) Nagabhavi, Bangalore - 560 072 held on 20 March 2024.

Officers and Staff Members

Designation	Name	<Email>@tezu.ernet.in	Date of holding the current position
<i>Director</i>	Debendra Chandra Baruah	baruahd	25-09-2023
<i>Assistant</i>	Raj Kumar Das	raj	19-03-2024
<i>Data Consultant</i>	Santanu Mahanta	santanu	05-07-2016

OFFICE OF THE PROCTOR

About the Office

The Proctor's office was established on 24-09-2018. The primary function of this office is to look after matters related to regulations on discipline and proper conduct of students of Tezpur University.

Officers and Staff Members of this office during the period 2023-24 are

Designation	Name	Highest Qualification (Institute)	<email>	Date of holding the current position
<i>Chief Proctor</i>	Prof. Papori Baruah	Ph.D	papori	01-11-2022
<i>Proctor</i>	Prof. Raza Rafiqul Hoque	Ph.D	rrh	24-09-2018
<i>Proctor</i>	Prof. Joya Chakraborty	Ph.D	jc	24-09-2018
<i>Office Assistant</i>	Nihal Sarmah	BSc	nihal	20-11-2022

Significant Activities

The proctor office took up the matters related to regulations on discipline and proper conduct of students of Tezpur University during the orientation of the new students in the autumn semester. Anti-Ragging Day was conducted on 12 August 2023 and Anti-Ragging Week was observed from 12 August to 18 August 2023 in all academic departments and hostels with a plethora of ice-breaking activities and competitions amongst all students both old and new. To curb the menace of ragging Anti-Ragging Squads were set up to have a strict vigil on students so that such incidents do not happen. Teams were formed to visit different hostels with the same intention and also the office of the Proctor saw to that Anti-Ragging Committees were set up in all academic departments and hostels. Throughout the year the office took up several cases related to possible violations of discipline and proper conduct by students. Proactive measures were taken to thwart major incidents of indiscipline.

RESEARCH AND DEVELOPMENT CELL

The office of the Dean, R&D facilitates the implementation and smooth conduct of extramural research projects funded by the various Government and non-Government agencies like UGC, DST, DBT, MeitY, MoEF&CC, NEC, AICTE, DAE, DRDO, ISRO, ICMR, ICAR, CSIR, INSA, ASTEC, UNICEF, IUAC, Ministry of Earth Science, Ministry of Food Processing Industries, MNRE, ONGC and others. This office takes the responsibility of advertisement and appointment of project staff; permits conduct of field trips/visits as required by the project staff and PIs and/or Co-PIs; grants permission to attend workshops/seminars/symposiums/conferences as well as to visit different research laboratories by using the project grant. In addition to management of extramural research projects sanction to individual PI, this office also manages the Departmental, Individual and institutional research projects such as UGC-SAP, UGC-BSR startup grants, DST-FIST and DBT funded schemes. Dean R&D also facilitates the Tezpur University Ethical Committee, Tezpur University Animal Ethical Committee and Tezpur University Biosafety Committee meetings. This office has also been involved in implementation of projects approved by ONGC-CPBT, an example of Academy-Industry collaboration at Tezpur University.

It may be mentioned that the Dean R&D keeps the account of R&D activities of the University, liaisons between the researchers of the University and the funding agencies, facilitates R&D activities and also contributes towards creating a conducive atmosphere for research activities. During the year 2023-2024 this office has forwarded 171 research proposals for consideration of approval to the funding agencies. At present a total of 203 externally funded research projects are ongoing with a financial outlay of Rs. 7801.21 lakhs. During the year 2023-2024, 31 new projects were sanctioned. The ongoing research projects include 16 international collaborative projects of which 2 projects are under Indo-UK, 2 with CEFIPRA (Indo-French), 2 with Nottingham University, 1 with Pamoja Cleantech AB, Sweden, 1 with ERASMUS (Indo-Greece-Italy), 1 with Indo-ASEAN, 3 with Indo-USA, 2 with Indo-Germany, 1 with Indo-Japan and 1 with Queens' University Belfast. The faculty members have published several research papers in peer-reviewed national and international journals. Further, these projects have augmented the research skills of the project staff and have created trained manpower to cater to the need of the society.

The office also facilitates consultancy projects of faculty as per the TU guidelines. As per record, total amount earned through consultancy projects during 23-24 was approximately INR 91,58,018/-. This amount was earned as consultancy fee by individual faculty as well as by the departments of various Schools.

In addition, the office also deals with various fellowship matters such as UGC-NET JRF, NFOBC, NFST, NFST, MANF, DS Kothari, SVSGC, CSIR-JRF/SRF, DST-INSPIRE, DBT-JRF etc. During 2023-24 a total of 61 scholars were the recipient of various external fellowships. The break-up as under:

- 1) UGC-NET (JRF) & CSIR-JRF : 35
- 2) NFST : 09
- 3) NFSC : 04
- 4) MANF : 01
- 5) NFOBC : 01
- 6) SJSGC : 11

THE PERSONNEL OF THE OFFICE OF THE DEAN

Dean, Research & Development

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 Professor, Dept. of Energy
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GIST 2023-2024

Total Departments under UGC-SAP DRS I	NIL
Total Departments under UGC-SAP DRS II	NIL
Total Departments under DST-FIST	07
Departments under Centre of Excellence	01
Sponsored ongoing projects	203
New projects sanctioned (2022-23)	31
International collaborative research projects (Ongoing)	17
Total amount earned through consultancy projects	91.58 Lakhs

TRAINING & PLACEMENT CELL

About the Cell

The Training and Placement Cell acts as an effective institutional arrangement primarily aimed at training and placement of students in the best-known corporate entities in the country. It establishes linkages with various corporate and facilitates placement events on campus as well as off campus. One of the major activities of the Cell is to groom the students to make them industry ready and enhance their chances of employability. The Cell is also playing an active role in placing many students through Internship, initially with a stipend and later regularized in the payroll of the company. During the reporting period 07 technical training sessions with durations ranging from a week to fortnight, and 06 career counselling sessions by industry experts and 03 soft skill training were organized by the Training & Placement Cell of SoE. The Placement Cell of the School of Engineering had another successful year of placement for the batch of 2024, wherein 42 organizations participated, and the highest salary package offered was Rs. 12.4 L.P.A by IBM. The other organizations where our students got placed are Bharat Electronics Limited, Antares Technologies, Techvariable, Cognizant Technologies Solution, Akash Byjus, TCS, Capgemini Technology Services India Ltd, Alstom, ITC infotech Limited, L&T Technology, L&T Limited, Federal Bank, Dalmia Cement, IGGL, Oil India Limited, KEC International, Gulf Asia Engineering and Project Pvt. Ltd., Accenture, ESAF Small Finance Bank, IQVIA, ITC Foods, Sanjivani Group of Institute, Tally, Xllent Corporate Services Pvt. Ltd. etc.

Workshop/Symposium/Seminar/Invited Talk etc. Organized

Title of Event/Talk	Data/Period
“Business Intelligence and Data Science” technical training conducted from 04 th to 10 th June 2023 by Mr. Rupesh Mandal.	04 th – 10 th June 2023
“IoT Hands on Training with Arduino & Raspberry Pi” technical training conducted from 10 th to 14 th June 2023 by Mr. Rupesh Mandal.	10 th – 14 th June 2023
“Application of ML in IoT” technical training conducted from 15 th to 16 th June 2023 by Mr. Rupesh Mandal.	15 th – 16 th June 2023
“PCB Designing using Software” technical training conducted from 17 th to 18 th June 2023 by Mr. Rupesh Mandal.	17 th – 18 th June 2023
An invited guest talk topic on “Indian Navy – A way of life” by Commander R Manoj Kumar, Serving Officer, Elite Submarine Arm, Indian Navy at SoE Deans Gallery.	26-09-2023
An interactive talk topic on “How to Mould oneself for Technical and HR Interview” by Miss. Vidya Pillai, Vice-President- HR, Choice Group at SoE Deans Gallery.	07-10-2023
A talk topic on “Guideline for thesis writing and its preparation in LaTeX” by Prof. Dilip Dutta, Department of Mechanical	15-11-2023

Engineering, Tezpur University at Smart Classroom, Deans Building.	
An interactive session topic on “Cyber Hygiene practices for Digital Wellbeing” by Prof. Dhruba Kr. Bhattacharyya, Department of Computer Science and Engineering, Tezpur University at SoE Deans Gallery.	22-11-2023
“AutoCad” technical training conducted from 16 th to 19 th December 2023 by Mr. Kota Santhosh.	16 th – 19 th Dec. 2023
“Machine Learning Python” technical training conducted from 18 th to 21 st December 2023 by Mr. Kaustubh Bhattacharyya.	18 th – 21 st Dec. 2023
“Basics of MATLAB and Mathematical Computation using MATLAB” technical training conducted from 22 nd to 25 th December 2023 by Mr. Kaustubh Bhattacharyya.	22 nd – 25 th Dec. 2023
A soft skill training on “Resume Building” by Dr. Somya Misra at SoE Deans Gallery.	19-01-2024
A soft skill training on “Communication Skill” by Dr. Somya Misra at SoE Deans Gallery.	20-01-2024
A soft skill training on “Group Discussion and Personal Interview” by Dr. Somya Misra at SoE Deans Gallery.	21-01-2024
A grooming session by Mr. Chayan Dutta, Sc-G of ISRO on 21.01.2024 at SoE Deans Gallery	21-01-2024
Alstom awareness Programme by Mr. Sanjiv Kumar Raghojiwar, Domin Leader, Alstom at SoE Deans Gallery.	24-01-2024

Distinguished Visitors

Name of the Visitor	Designation	Organization/Company	Date/Period
Shri Rajib Bhattacharyya	Chief HR Officer	IGGL	15-09-2023

Notable Placement

Name of the Organization/Company	Designation Offered	No. of Students Placed	Academic Programme	Department/Centre
Aakash Educational Services Ltd.	Faculty- Physics	1	B.Tech EE	EE
Accenture	App Development Associate	1	MCA	CSE
Alstom	GET	6	B.Tech EE, ECE, CSE M.Tech ME	EE, ECE, CSE, ME
Antares Tech	Trainee Software Designer	3	B.Tech CSE	CSE
Asian Paints	EXECUTIVE	1	B.Tech Civil	Civil
Bharat Electronics Limited	Deputy Engineer (E-II)	8	B.Tech ECE, M.Tech IT	ECE, CSE

Britannia Industries Ltd.	GET	1	B.Tech ME	ME
CDAC	Intern	15	B.Tech CSE, ECE, EE, MCA, M-Tech IT	CSE, ECE, EE
Cognizant Technology Services	Programmer Analyst Trainee	1	MCA	CSE
Dalmia Cement	GET	1	B.Tech ME	ME
Digimed	Intern	1	B.Tech CSE	CSE
Edwize Classes	Assistant Teacher	1	B.Tech CSE	CSE
ESAF Small Finance Bank	Executive Trainee	9	B.Tech ECE, FET, Civil, MCA M.Tech ME, CSE	ECE, FET, Civil, CSE, ME
Federal Bank	Associate in Non Officer	3	B.Tech ECE, ME	ECE, ME
Gulf Asia Engineering and Project Pvt. Ltd.	Junior Engineer	2	B.Tech ME	ME
IBM	Software Engineer	1	B.Tech CSE	CSE
IGGL	GET	1	B.Tech EE	EE
IIT, Roorkee	Research Associate	1	M.Tech Energy	Energy
Indigi Consulting and Solutions Pvt. Ltd.	SAP Trainee	2	B.Tech CSE, MCA	CSE
IQVIA	Intern	1	B.Tech CSE	CSE
ITC Food Division	Manufacturing Executive	1	B.Tech FET	FET
ITC Infotech Ltd	Software Engineer	1	B.Tech ECE	ECE
KEC International	Engineering Leadership Trainee	2	B.Tech Civil	Civil
L&T Limited	GET	9	B.Tech ME, EE, Civil M.Tech Energy	ME, EE, Civil, Energy
L&T TECHNOLOGY SERVICES Ltd	PGET	1	M.Tech ELDT	ECE
LG Soft India	Research Engineer	2	B.Tech CSE	CSE
LocalWell Healthtech Pvt. Ltd.	Software Development Engineer	1	B.Tech CSE	CSE
Octopi Labs India Pvt. Ltd.	Intern	2	B.Tech CSE, MCA	CSE
OIL India Limited	Senior Officer	1	B.Tech ME	ME

One Small Design Studio	Intern	1	M.Des	Design
PJ V Ocupiie	Intern	1	MCA	CSE
RDC Concrete	GET	2	B.Tech Civil, EE	Civil, EE
Sanjivani Group of Institutes	Assistant Professor	4	M.Tech IT & CSE	CSE
Sanmar Group	GET	1	B.Tech ME	ME
Software AG	Intern	4	B.Tech CSE	CSE
Tally	Trainee-Software Engineer	1	B.Tech ME	ME
TCS	System Engineer & Assistant System Engineer Trainee	18	B.Tech CSE, ECE, Civil, MCA, M.Tech IT, CSE	CSE, ECE, Civil
Team.Effiently	Intern	1	B.Tech ECE	ECE
TechVariable Pvt. Ltd.	Junior Programmer Analyst	1	MCA	CSE
Tranzsilica Systems Pvt. Ltd.	Intern	1	MCA	CSE
Vivekananda Kendriya Vidyalaya	Teacher	3	MCA	CSE
Xllent Corporate Services Pvt. Ltd.	Software Engineer	2	MCA	CSE

Personnel of the Cell

Designation	Name	<email> @tezu.ernet.in	Since
Chairperson – T&P	Prof. Sankar Chandra Deka	sankar@tezu.ernet.in	12-08-2023
Professor in charge	Dr. Ratul Kr. Barua	ratulkr@tezu.ernet.in	24-07-2023
Dy. Director	Dr. Pijush Chandra Das	pijush@tezu.ernet.in	11-11-2016
Multi-Tasking Staff	Shri Nayan Jyoti Kalita	nayank@tezu.ernet.in	12-01-2016

School of Engineering

Report of the Dean, School of Engineering

Department of Applied Sciences

Department of Civil Engineering

Department of Computer Science and Engineering

Department of Design

Department of Electrical Engineering

Department of Electronics and Communication Engineering

Department of Energy

Department of Food Engineering and Technology

Department of Mechanical Engineering

REPORT OF THE DEAN, SCHOOL OF ENGINEERING

About the School

The School of Engineering (SoE) of Tezpur University was established in 2006 with the introduction of B.Tech programmes in three disciplines. There are now nine departments and one vocational studies & skill development center at the School of Engineering.

- CE (Civil Engineering)
- CSE (Computer Science and Engineering)
- ECE (Electronics and Communication Engineering)
- EE (Electrical Engineering)
- FET (Food Engineering and Technology)
- ME (Mechanical Engineering)
- Energy
- Design
- Applied Sciences
- Vocational Studies and Skill Development

Six constituent Departments (CE, CSE, ECE, EE, FET, and ME) of the school offer B.Tech programmes, while the Departments of CSE, ECE, ME, FET, Energy, and CE offer Master of Technology programmes also. The MCA programme is also being offered by the Department of CSE. Except for the Departments of EE, Design, and Applied Sciences, all other Departments offer Ph.D. programmes as well. The Department of Design offers M.Des programme and recently B.Des programme will be started from August 2024. In addition M.Tech in Semiconductor Technology under department of ECE, M.Tech in Data Sciences under department of CSE and M.Tech in EE will be started from August 2024. This school strives to produce skilled professionals at the UG, PG, and Doctoral levels. The departments are actively pursuing externally funded research projects, and both faculty and students are engaged in developing innovative technologies. The school has been proactive in strengthening the teaching and learning experiences of the students to enhance their knowledge and employability.

Departments and Academic Programmes Offered

Department	Academic Programmes Offered
	B.Tech
	M.Tech
	Ph.D
	B.Tech
	M. Tech (CSE)

	M. Tech (IT)
	MCA
	Ph.D
	B.Tech
	M.Tech in Electronics Design & Technology
	M.Tech in Bioelectronics
	Ph.D
Electrical Engineering (EE)	B.Tech
	M.Tech
	Ph.D

Department	Academic Programmes Offered
	B.Tech
	M.Tech
	Ph.D
Mechanical Engineering (ME)	B.Tech
	M.Tech
	Ph.D
	M.Tech
	Ph.D
	B.Des
	M.Des (Master of Design)
	Ph.D
Applied Sciences	Ph.D

Important Activities

- Total 8 numbers of students have enrolled for AICTE Doctoral Fellowship (ADF) of the academic year 2023-2024.
- One Ph.D Scholar admitted under the QIP Scheme for the academic year 2023-2024.
- Total 270 numbers of students benefited by career counselling and guidance for competitive examinations offered by the Institution during the year 2023-24.

- Total 149 numbers of students benefited by development and skills enhancement initiatives by the institution during the year 2023-24.
- Total 217 students from the different streams of the School of Engineering have been recruited by the different companies during the year 2023-24
- The Department of Vocational Studies and Skill Development has co-organized a 3-day skill training programme on "Skill Development and Employment Opportunities for the period from April 28 to 30, 2022, where the participants were Northeast College students (male: 19, female: 41).
- The Department of Vocational Studies and Skill Development has co-organized a 6-month (September 2022 to February 2023) Entrepreneurship Development Programme for candidates sponsored by the Arunachal Pradesh State Council for Science & Technology, (Department of Science & Technology), Government of Arunachal Pradesh (Reporting Candidates: 03).

Officer and Staff Members

Designation	Name	Email	Department
Sr. Technical Assistant	MR. JIBON CH. DAS	djibon@tezu.ernet.in	Dean's Office
Office Assistant	MR. DEBAJIT SARMAH	debajits@tezu.ernet.in	AICTE Cell
Technician	MR. SANKU BORDOLOI	sankubo@tezu.ernet.in	Dean's Office
Office Assistant	MR. ZAKIR HUSSAIN	zakir07@tezu.ernet.in	Dean's Office
MTS	MR. DURLAV MAHANTA	duma@tezu.ernet.in	Dean's Office
Office Assistant	MR. ABU TAHER	taherabu803@gmail.com	NBA

DEPARTMENT/CENTRE OF APPLIED SCIENCES

About the Department/Centre

The Department of Applied Sciences was established in 2019. It aims to provide high-quality teaching of basic science subjects to engineering students. The teachers provide individual attention to the students with the goal of developing a strong foundation for their respective future careers by nurturing their analytical abilities and critical thinking. The department provides well-equipped laboratory facilities to the students as a part of their curriculum. At the same time, the department aspires to establish its name in research with world-class and high-impact outputs in the frontiers of applied sciences in interdisciplinary areas. Particularly, the department possesses some highly motivated young faculty members with research experience from various premier institutes of India and abroad. Their research interests encompass diverse areas of applied as well as fundamental sciences, spanning fields like astrophysics, condensed matter physics, materials chemistry, pure and applied mathematics. The faculty members are currently focused on establishing their own research groups to pursue research on their respective thrust areas.

Academic Programmes and Student Intake

Academic Programme	Intake
Ph.D	Variable (admitted 10 in 2023-24)

Thrust Research Areas of the Department/Centre

- Algebraic graph theory, operation research, harmonic analysis, Computational Seismology, Geomechanics.
- Metal organic frameworks, porous organic polymers, polymer synthesis.
- High energy astrophysics, low-dimensional material physics.

Faculty Members

Designation	Name	Highest Qualification (Institute)	Specialization	<email>@tezu.ernet.in	Since
Professor	Dr. Rajib Haloi	Ph. D.	Differential Equations, Harmonic Analysis.	rhaloi	16-12-2021
	Dr. Dhrubajyoti Haloi	Ph. D.	Polymer Synthesis & Characterization, Chemical Modification of Polymer,	djhaloi	24-03-2022

			Polymer Composite.		
	Dr. Jwngsar Brahma	Ph. D.	Computational Seismology, Geomechanics, Numerical Analysis.	jbrahma	19-12-2023
	Dr. Bijoy Krishna Debnath	Ph. D.	Operations Research	bijoy91	26-11-2019
	Dr. Somnath Paul	Ph. D.	Spectral Graph Theory	som	09-08-2021
	Dr. Saona Seth	Ph. D.	Functional organic and metal-organic polymers, energetic materials, Materials for energy and environmental applications.	saonas	30-12-2019
	Dr. Pranjali Kumar Gogoi	Ph. D.	Low-dimensional Material Physics, Optical Spectroscopy, Electron Energy Loss Spectroscopy, Scanning Transmission Electron Microscopy.	pkgogoi	06-01-2020
	Dr. Biplob Sarkar	Ph. D.	Theoretical modeling of astrophysical flows, study of X-ray binaries, X-ray data analysis and interpretation.	biplobs	20-08-2022
	Dr. Manashi Devi	Ph. D.	Nanomagnetic materials	manasidevi25	11-10-2023
	Dr. Kuldeep Sarma	Ph. D.	Graph Theory	kuldeep.sarma65	21-11-2022

Major Research and Development Findings

Faculty/ Researcher	Salient Research Findings
Dr. Biplob Sarkar	We carried out a detailed study of neutron star X-ray binary 4U 1608-52 using AstroSat and NICER observations which reveals a stable inner disk radius (~ 22 -27 km) and temperature (~ 1 keV) during its 2016 and 2020 outbursts. The observed variations in X-ray emission are attributed to changes in accretion rate, which affects the inner disk temperature and coronal heating rate, rather than changes in the disk radius.
Prof. Rajib Haloi	Weighted norm inequalities for the Morrey like spaces are established.
Dr. Bijoy Krishna Debnath	Our research group focused on solutions to complex real-life problems using Multi Criteria Decision Making (MCDM) methods. We also have published some mathematical models of production and supply chain management related problems.

Research Projects (both Ongoing and New)

Project Title	Funding Agency	Amount (in INR)	Duration	Investigator(s)
Design and synthesis of a responsive multi-block co polymer binder for paint applications	CSIR	29.92 lakhs	November 2023-ongoing	Dr. D. J. Haloi
Low cost flexible and printable MXene-Transition metal dichalcogenide hybride hydrogen gas sensors for next generation green energy application	SERB	24,00,332	30 January 2024-Ongoing	Dr. Pranjal K. Gogoi
Simulation of Various Optical Spectra of Novel 2D Materials Using Phenomenological Oscillator Models	SERB MATRICS	6,60,000	9 January 2023 – Ongoing	Dr. Pranjal K. Gogoi

Publications by Faculty and Staff Members

Publication of Articles in UGC-CARE Listed Group I/Group II Journals

- Barman, T. Borah, J. Chutia D. and Haloi, R. (2023) Weighted Norm Inequalities For One Sided Vector Valued Hardy-Littlewood Maximal Function On One Sided Morrey Like Spaces, accepted in *Journal of Analysis*.

- Pathak, C. Gogoi, A. Devi, A. and Seth, S. (2023) Polymers of Intrinsic Microporosity based on Dibenzodioxin Linkage: Design, Synthesis, Properties and Applications, accepted in *Chemistry A European Journal*.
- Gogoi, A. Barman, H. Mandal, S. Seth, S. (2023) Removal of dyes using polymers of intrinsic microporosity (PIMs): a recent approach, accepted in *Chemical Communications*.
- Dhar, A., Bhattacharjee, M., Barman, J., Talukdar, H., & Haloi, D. J. (2023). Synthesis and Characterization of Starch-g-poly (methyl methacrylate-co-styrene) Copolymer Prepared via Emulsion Polymerization. *Iran. J. Chem. Chem. Eng. Research Article Vol*, 42(4).
- Taye, A., Roy, M., Dhar, A., Barman, J., Pramanik, N., & Haloi, D. (2023). Synthesis and Characterization of Poly (methyl methacrylate-co-vinyl triethoxysilane) Prepared by Free Radical Polymerization. *French-Ukrainian Journal of Chemistry*, 11(2), 39-46.
- Bhattacharjee, M., Goswami, S., Borah, P., Saikia, M., Barman, J., Pramanik, N. B., & Haloi, D. J. (2023). Preparation, characterization, and antimicrobial activity of chitosan/kaolin clay biocomposite films. *Macromolecular Chemistry and Physics*, 224(11), 2300008.
- Bhattacharjee, M. Goswami, S. Pramanik, N. B. Barman, J. Saikia, M. Swami Hulle, N. R. and Haloi, D. (2023) Chitosan/Clay biocomposite films with enhanced physico-chemical, mechanical and antimicrobial properties, *Analytical Chemistry Letters*, 13(6), 609-625.
- Roy, M., Haloi, D. J., & Barman, J. (2024). Emulsion Prepared Vinyl Acetate-Based Terpolymer: a Review on Their Preparations, Properties, and Applications. *Asian Journal of Green Chemistry*, 8(2), 108-123. doi: 10.48309/ajgc.2024.413885.1441
- Bhattacharjee, M. Goswami, S. Pramanik, N. B. Barman, J. Saikia, M. Swami Hulle, N. R. and Haloi, D. (2023) Chitosan/Clay biocomposite films with enhanced physico-chemical, mechanical and antimicrobial properties, *Analytical Chemistry Letters*, 13(6), 609-625.
- Mahetaji, M. Brahma, J. (2024) A critical review of rock failure Criteria: A scope of Machine learning approach, *Engineering Failure Analysis*, 107998.
- Giri, P. Paul, S. Debnath, B. K. (2024) A fuzzy Graph Theory and Matrix Approach (fuzzy GTMA) to select the best renewable energy alternative in India, *Applied Energy* 358, 122582.
- Saha, A. Debnath, B.K. Chatterjee, P. Panaiyappan, A.K. Das, S. Anusha, G. (2024) Generalized Dombibased probabilistic hesitant fuzzy consensus reaching model for supplier selection under healthcare supply chain framework, *Engineering Applications of Artificial Intelligence* 133, 107966.
- Giri, P. Paul, S. Debnath, B. K (2024), A hybrid graph-theoretic solution of Delphi and graph theory matrix approach (GTMA) to the challenges of sustainable lithium-ion battery (LIB) supply chains in electric vehicles in India, *Journal of Energy Storage*, 97(A), 112702.
- Mahata, S., Debnath, B. K. (2023), The impact of R&D expenditures and screening in

an economic production rate (EPR) inventory model for a flawed production system with imperfect screening under an interval-valued environment, *Journal of Computational Science*, 69, 102027.

Publication of Book Chapters

- Pradhan, A. Sarkar, B. and Bharti, G. P. (2023). Science, Technology and Development: Relationship, Challenges and Opportunity (Chapter-5), *Society, Economy and Development: Challenges and Opportunities* edited by Dr. A. Basak, Sk. Kamruzzaman, and P. Dey, Rajesh Publications, New Delhi-110002, pp 71-80, ISBN: 978-93-91139-38-4.
- Bora, H. Gogoi, N. Sarkar, B. Bhattacharjee, S. and Gogoi, R. (2023) Study of Properties of Active Galactic Nuclei and Observational Findings (Chapter-36), *Recent Trends in Physics Research (A Proceedings of XIII Biennial National Conference of Physics Academy of North East, Pane-2022)* edited by Prof. N. Nimai Singh (Editor in Chief) and Dr. Thongam Gomti Devi (Editor), Allied Publishers Pvt. Ltd., Noida - 201301, pp 209-214, ISBN: 978-93-90951-66-6.
- Seth, S. (2023) High-Energy Metal-Organic Frameworks: A Recent Approach to Energetic Materials, *Recent Progression in Metal-Organic Frameworks Properties and Applications* edited by Dr. Tapan K. Pal and Dr. Prem Lama (Central West Publishing, Australia, ISBN: 978-1-922617-46-0).
- Bhattacharjee, M., Singh, R., & Haloi, D. J. (2024). Thermoplastic elastomers based on graft copolymers. In *Advances in Thermoplastic Elastomers* (pp. 275-290). Elsevier.
- Sahoo, B. Debnath, B.K. (2024). Select the Best Place for Regenerative Practices in Tourism by Using the Fuzzy MABAC Method, *Building Community Resiliency and Sustainability With Tourism Development*, IGI Global, DoI: 10.4018/979-8-3693-5405-6.ch012

Conference/Workshop/Symposium/Seminar etc. Attended

Name of Faculty/Staff Member	Purpose of Attending	Title of Event	Date/Period	Organizer and Venue
Bijoy Krishna Debnath	Paper Presenter	International Conference on Sustainable Supply Chain Management under India's G20 Presidency (SSCM-G20)	04-05 November, 2023	Department of Operational Research, University of Delhi, Delhi, India
	Participation	Online weeklong Faculty Development	07-13 September, 2023	Teaching Learning Centre, Tezpur University (Online)

		Program on Implementation of NEP 2020 in Higher Educational Institutions		
	Paper presentation	3rd International Conference on Plasma Theory and Simulations (PTS -2023)	21-23 September, 2023	School of Physical Sciences Jawaharlal Nehru University, New Delhi (Offline)
	Paper presentation	Challenges and Innovations in Computational Astrophysics V	07-09 November, 2023	IAU Commission B1: Computational Astrophysics (Online)
	Paper presentation	10th International Conference on Gravitation and Cosmology: New Horizons and Singularities in Gravity	06-09 December, 2023	Department of Physics, IIT Guwahati (Offline)
	Participation	Short Term Course on NEP Orientation & Sensitization under Malaviya Mission Teacher Training Programme (MM-TTP) of the University Grants Commission (UGC)	18-30 January, 2024	MMTTC, Tezpur University (Online)
	Participation	Online Faculty Development Programme on Latest Trends on Computational Mathematics - Theory, Methods & Applications	26 February-1 March 2024.	Department of Mathematics, JIS University, West Bengal.

	Participation	Online Certificate Course on Mathematical Modelling on Biological & Physical Systems with Different Simulation Techniques	4 – 9 January 2024	Department of Mathematics, Mahadevananda Mahavidyalaya, West Bengal
	Participation	Five Day FDP on Recent Advancement in Mathematical Sciences (RAIMS) [Online Mode]	6–10 November 2023	Department of Mathematics, Sarala Birla University
	Participation	One week online workshop on Ethics and Research Paper Writing in Scientific & Humanities Journals	11 – 17 March 2024	UGC-MMTTC, Gauhati University in association with Institutional Biotech Hub, Dimoria College, Kamrup (Assam)
	Participation	Short Term Course on NEP Orientation & Sensitization	4–13 December 2023	MMTTC, Tezpur University
Saona Seth	Participation	Short Term Course on NEP Orientation & Sensitization under Malaviya Mission Teacher Training Programme (MM-TTP) of the University Grants Commission (UGC)	19-28 February, 2024	MMTTC, Tezpur University (Online)
	Participation	Short Term Course on NEP Orientation & Sensitization	19-28 February, 2024	MMTTC, Tezpur University (Online)

		under Malaviya Mission Teacher Training Programme (MM-TTP) of the University Grants Commission (UGC)		
	Participation	Online Weeklong Faculty Development Program on Assessment and Evaluation	20-26 September, 2023	MMTTC, Tezpur University (Online)
Dr Jwngsar Brahma	Resource Person	Skill and Quality Education: Towards a Sustainable Future	21-22 January, 2024	Barma, Baksa organized by Baksa district ABSU

Invited Talk

Name of Faculty Member	Title of the Talk	Title of the Event	Date	Organizer and Venue
Biplob Sarkar	An Outline Of X-ray Astronomy And X-ray Transients	International Day Of Light 2023 (IDL-2023)	16 May, 2023	Department Of Physics, Pandit Deendayal Upadhyaya Adarsha Mahavidyalaya (PDUAM) Eraligool, Karimganj (Online)

Awards/Honours/Notable Achievements

Name of Awardee	Designation of Awardee	Achievement	Event/Awarded by
		Received Life Membership of Assam Science Society	ASSAM SCIENCE SOCIETY, JAWAHARNAGAR, KHANAPARA, GUWAHATI-781 022 (Regd. No. 49 of 1960-1961), Established: 1953

		Received Life Membership of the Plasma Science Society of India (PSSI)	Plasma Science Society Of India (PSSI), Institute For Plasma Research, Bhat, Near Indira Bridge, Gandhinagar 382 428 (Gujarat)
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Other Significant Activities of the Department/Centre

- Meet The IAU Astronomers! A One-day Online Astronomy Workshop with Interactive Session & Career Guidance for Young Aspirants, 22 April 2023.
- Invited talk on "Understanding physics around Black Holes with General Relativistic Magnetohydrodynamics (GRMHD)", by Dr. Indu Kalpa Dihingia, Postdoctoral Fellow, Tsung-Dao Lee Institute, Shanghai Jiao-Tong University on 20th November 2023, at Dean's Gallery, School of Engineering, Tezpur University.
- Mini Symposium on “Recent Trends in Applied Chemistry” Organized by Dr. Saona Seth, on 12.02.2024 at Dean's Gallery, School of Engineering, Tezpur University.

DEPARTMENT OF CIVIL ENGINEERING

About the Department

The department of Civil Engineering of Tezpur University was established in 2009 under the School of Engineering to offer B. Tech. Degree. A Ph.D. Programme was started in the spring of, 2011, and the M. Tech. Programme of the department was started in Autumn 2018. The Department aims to provide quality education, research and professional experiences that enable its graduates to become leaders in their professional careers, pursue excellence in research, serve the profession, community and nation, and compete internationally.

Academic Programmes and Student Intake

Academic Programme	Student Intake
<i>B.Tech</i>	68
<i>M.Tech</i>	11
<i>Ph.D.</i>	Variable

Thrust Research Areas of the Department

Development of methods/ techniques which are easily acceptable and adaptable to communities at an affordable cost especially for the people living in rural and semi-urban areas of Northeastern Region of India in terms of

- Safe drinking water, sanitation
- Roads, soil stabilization
- Landslide mitigation, riverbank protection

Major Facilities/Equipment available

The Department has the following Laboratory facilities

- Computational Laboratory
 - MatLab and Simulink R2011b
 - Civil FEM for Ansys,
 - version 12.1 Plaxis 2D
 - ETABS Version 9
 - AutoCAD
 - SAP 2000, v-20
- Core Departmental Laboratories
 - Geotechnical Engg. Laboratory-I
 - Consolidation Apparatus
 - Triaxial Apparatus
 - Pore Pressure Apparatus
 - Laboratory Vane Shear Apparatus
 - In-Situ Vane Shear Apparatus
 - Swell Test Apparatus
 - Electronic Balance

- Laboratory Permeability Apparatus
- Relative Density Apparatus
- Drying Oven
- Shrinkage Limit Testing Apparatus
- Moisture Meter
- Consolidation Apparatus (with three gang)
- Motorized Sieve Shaker
- Standard Penetration Test Set up

- Environmental Engg. Laboratory -I
 - pH Meter
 - Conductivity Meter
 - Turbidity Meter
 - Spectrophotometer
 - Flame Photometer
 - Jar Test Apparatus
 - COD Reactor
 - BOD Incubator
 - Magnetic Stirrer with Hot Plate
 - Drying Oven
 - High Sensitivity Balance
 - Refrigerator
 - Muffle Furnace

- Water Resources Laboratory
 - Hydraulics Bench
 - Cavitation Apparatus
 - Laminar Flow Table
 - Darcy's Law Apparatus
 - Reynolds's Apparatus
 - Orifice & Mouthpiece

- Structural Engg. & NDT Laboratory
 - Compression Testing Machine
 - Sieve Shaker
 - Vicat Apparatus
 - Compaction Factor Apparatus
 - Desiccators
 - Slump Test Apparatus
 - Le Chatelier Apparatus
 - Specific Gravity Bottle

- Transportation Engg. Laboratory
 - CBR Machine
 - Ring & Ball Apparatus

- Aggregate Crushing Value Apparatus
 - Hot Plate
 - Ductility Testing Machine
 - Los Angeles Abrasion Testing Machine
 - Impact Testing Machinery
 - Surveying Laboratory
- Total Station
 - Electronic Theodolite
 - Vernier Theodolite
 - Autolevel
 - Digital Planimeter
 - Plane Table and accessories
 - Prismatic compass
 - Measuring chain
 - Measuring Tape
 - Ranging rod
 - Cross staff
- Geotechnical Engg. Laboratory-II
- Direct Shear Apparatus
 - Unconfined Compression Apparatus
- Environmental Engg. Laboratory-II
 - Atomic Absorption Spectrophotometer
 - UV-Visible Spectrophotometer

Faculty Members

Designation	Name	Highest Qualification (Institute)	Specialization	<email> @tezu.ernet.in	Date of holding the current position
	Utpal Kumar Das	Ph.D. (Gauhati University)	Geotechnical Engineering	ukrdas	26-08-2015
	Kamal Uddin Ahamad	Ph.D. (IIT Guwahati)	Environmental Engineering	kahamad	19-11-2022
	Ankurjyoti Saikia	Ph.D. (Tezpur University)	Geotechnical Engineering	asaikia	01-10-2009
	Binanda Khungur	Ph.D. (Tezpur University)	Transportation Engineering	binanda	10-08-2012

<i>Assistant Professor</i>	Narzarary				
	Debaraj Bailung Sonowal	M.Tech (IIT Roorkee)	Structural Engineering	bailung	16-08-2012
	Shailen Deka	Ph.D. (IIT Guwahati)	Geotechnical Engineering	deka.s	03-09-2012
	Jayanta Deori Bharali	M.Tech (IIT Guwahati)	Transportation Engineering	jdb	25-08-2014
	Rituraj Buragohain	M.Tech (IIT Guwahati)	Water Resources Engineering	rbgn	16-01-2017
	Karabi Bharadwaj	M.Tech (NIT Silchar)	Structural Engineering	karabi	03-04-2017
	Arunav Chakraborty	Ph.D. (Gauhati University)	Geotechnical Engineering	aru243	18-11-2019
	Hemanta Medhi	Ph.D (IIT Kanpur)	Hydraulics and water resources engineering	hmedhi	29-11-2021
<i>Guest Faculty</i>	Abhinav Bharadwaj	PhD (ISM Dhanbad)	Structural Engineering	abhinov	20.03.2023

Officers and Staff Members

Designation	Name	<email>@tezu.ernet.in	Date of holding the current position
<i>Technical Officer</i>	Chirajyoti Doley	chirajd	22-08-2012
	Iseng Thawmung	iseng	01-10-2010
	Puspajyoti Kalita	pjk	11-07-2011
	Jahnu Baruah	jahnu	22-08-2011
<i>Lower Division Clerk</i>	Parama Nanda Chauhan	chauhan	01-06-1995
<i>Multi Tasking Staff</i>	Dipak Deka	dipak2	31-12-1995

Major Research and Development Findings

Faculty/ Researcher	Salient Research Findings
Dr. Kamal Uddin Ahamad	<ul style="list-style-type: none"> Estimation of Equivalent Modulus of Fine-Grained Subgrade Soil from Numerical Model. Dual Mode Smartphone Based Sensing for Accurate Estimation of Sulphate and Chloride in Water. Prediction of Lake Eutrophication using ANN and ANFIS by artificial simulation of Lake Ecosystem.

	<ul style="list-style-type: none"> ● Lake Eutrophication: Causes, Concerns and Remedial Measures.
Dr. Binanda Khungur Narzary	<ul style="list-style-type: none"> ● Estimation of Equivalent Modulus of Fine-Grained Subgrade Soil from Numerical Model. ● Prediction of Lake Eutrophication using ANN and ANFIS by artificial simulation of Lake Ecosystem.
Dr. Utpal Kumar Das	<ul style="list-style-type: none"> ● Response of Square Footing on Geocell-Reinforced Sand Bed Under Static and Repeated Loads. ● Load-Settlement Behaviour of Geotextile-Based Geocell Reinforced Sand Bed.
Ms. Karabi Bharadwaj	<ul style="list-style-type: none"> ● Parametric Study on the Variation of Time Period of RC MRF Buildings. ● Comparative Study on Static and Dynamic Analysis of RC Buildings of Different Heights in Different Seismic Zones.
Dr. Arunav Chakraborty	<ul style="list-style-type: none"> ● Prediction of California Bearing Ratio (CBR) from Index Properties of Fine-Grained Soil. ● The Application of Statistics and Fuzzy Logic in Predicting Slope Stability.
Dr. Hemanta Medhi	<ul style="list-style-type: none"> ● A Methodological Comparison on Spatiotemporal Prediction of Criteria Air Pollutants. ● Rainfall trend analysis.

Research Projects (both Ongoing and New)

Project Title	Funding Agency	Amount (in INR)	Duration	Investigator(s)
Bio Electricity Generation Using Pilot Scale Model Septic Tank Installed Under Swachh Bharat Mission	DST SERB	34,00,000	3 years	Dr. Kamal Uddin Ahamad and Dr. Binanda K. Narzary
Development of plastic concrete from waste plastic for road construction in Northeast India	AICTE under RPS-NER Scheme	18,40,000	3 years	Dr. Binanda K. Narzary and Dr. Kamal Uddin Ahamad
A Conservation approach for Structural Heritage of the Ahom Dynasty through the intervention of Science & Technology (CASHAD)	AICTE-IKS	13,64,00	2 years	Prof. Rupam Kakati, Prof. Ashim Jyoti Thakur, Dr. Juri Gogoi Konwar, Dr. Biraj Kumar Kakati, Dr. Binanda K. Narzary, Dr. Durlav Sonowal and Dr. Hemanta Medhi

Publications by Faculty and Staff Members

Publication of Articles in UGC-CARE Listed Group I/Group II Journals

- Buragohain, R., Medhi, H., and Ahamad, K.U. (2024). Hillslope scale conceptualization of hydrological processes for data-limited catchments and hypothesis testing by systematic model comparison. Journal of Hydrology. <https://doi.org/10.1016/j.jhydrol.2024.131548>.
- Bhagowati, B., and Ahamad, K.U. (2024). Examining the effectiveness of artificially replicated lake systems in predicting eutrophication indicators: a comparative data-driven analysis. Water Quality Research Journal. <https://doi.org/10.2166/wqrj.2024.014>.
- Boruah, P.P., Taipodia, J., Chakraborty, A., and Anshu, A.K. (2024). A systematic review on slope stability and deformation analysis subjected rainfall and earthquake. Geotechnical Engineering Journal of the SEAGS & AGSSEA.
- Tripathi, D., Singh, K., Singh, S., and Ahamad, K.U. (2023). Qualitative Assessment of Contaminants of Emerging Concern in the Environmental Media across Delhi. <https://doi.org/10.1093/micmic/ozad067.004>.
- Buragohain, R., Medhi, H., Narzary, B.K., and Ahamad, K.U. (2023). Identification of Rainfall Trends over Four Cities of Assam, India. Russian Meteorology and Hydrology. <https://doi.org/10.3103/S1068373923120105>.

Conference/Workshop/Symposium/Seminar etc. Attended

Name of Faculty/ Staff Member	Purpose of Attending	Title of Event	Date/Period	Organizer and Venue (Online/Offline)
Mr. Rituraj Buragohain	Presented	HYDRO-2023 International	21-12-2023 to 23-12-2023	Department of Civil Engineering, NIT Warangal (Offline)
Mr. Debaraj Bailing Sonowal	Participation (FDP)	Recent Advances in Structural Engineering and Material Science (RASEMS)	25-06-2024 to 29-06-2024	Department of Civil Engineering, Jorhat Engineering College (Online)
Ms. Karabi Bharadwaj	Participation (FDP)	Recent Advances in Structural Engineering and Material Science (RASEMS)	25-06-2024 to 29-06-2024	Department of Civil Engineering, Jorhat Engineering College (Online)
Dr. Hemanta Medhi	Participation (FDP)	NEP Orientation & Sensitization Programme	20-05-2024 to 30-05-2024	MMTTC, Tezpur University (Online)
Dr. Arunav Chakraborty	Participation (FDP)	Recent Advances and Research Scope in Geotechnical Engineering	03-06-2024 to 07-06-2024	Department of Civil Engineering, Jorhat Engineering College (Online)

Dr. Arunav Chakraborty	Participation (FDP)	Geo-informatics in Disaster Management	18-06-2024 to 22-06-2024	Department of Civil Engineering, Jorhat Engineering College (Online)
Dr. Arunav Chakraborty	Participation (FDP)	Recent Advances in Structural Engineering and Material Science (RASEMS)	25-06-2024 to 29-06-2024	Department of Civil Engineering, Jorhat Engineering College (Online)

Number of Students Qualified in NET-JRF/SLET/GATE etc.

Name of Qualifying Examination	Number of Qualified Students	Academic Programme
<i>GATE</i>	11	B. Tech

Notable Placement of Students

Name of Student	Academic Programme	Placement Designation	Company/ Organization	Mode of Selection
Ms. Ruhana Farzin Ahmed	B. Tech	Engineering Leadership Trainee	KEC International Ltd.	On-Campus
Ms. Ricky Laskar	B. Tech	Engineering Leadership Trainee	KEC International Ltd.	On-Campus
Mr. Sahil Bhagat	B. Tech	Graduate Engineer Trainee	Larsen & Toubro	On-Campus
Sanjeev Kumar	B. Tech	Graduate Engineer Trainee	TCS	On-Campus
Mr. Keshapogu Shiva Kumar	B. Tech	Executive Trainee	ESAF	On-Campus

Enrollment of Students in other Institutes for Higher Studies

Name of Student	Academic Programme (in TU)	Name of other Institute	Enrolled Academic Programme
Lakhyajit Bordoloi Hukai	B. Tech	IIT Guwahati	M. Tech
Manish Jugal	B. Tech	IIT Guwahati	M. Tech
Dermi Pegu	B. Tech	IIT Roorkee	M. Tech
Riky Laskar	B. Tech	NIT Silchar	M. Tech
Rahul Kumar	B. Tech	NIT Rourkela	M. Tech

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

The Department

The vision of the Department is to be a dedicated Centre of learning and research in Computer Science and Engineering. It is committed to create competent professionals capable of taking leading roles in industry, academia, and application areas of the field. A High-Performance Computing Centre was established in the Department in June 2015 to provide high end computing facilities to the scientific researchers from the North-East region. The Department has been recently recognized as a Centre of Excellence in Machine Learning and Big Data Analytics by MHRD, Government of India under FAST. The Department is also recognized by UGC under the Special Assistance Programme (SAP DRS Phase II). During 2005-2009 and 2018-2023 the Department received support from the Department of Science and Technology (DST), Govt. of India under its FIST- Programme. The Department has also been recognized as ISEA member, MeitY, Govt. of India and BRICS-NU Member. The B. Tech Programme of the Department in Computer Science & Engineering is accredited by the National Board of Accreditation (NBA).

Academic Programmes and Student Intake

Academic Programme	Intake
<i>M. Tech (IT)</i>	25
<i>M. Tech (CSE)</i>	28
<i>MCA</i>	56
<i>B. Tech</i>	68
<i>PhD</i>	Variable (13 in 2023-24)

Thrust Research Areas of the Department

- Computer and Network Security,
- Biomimetic & Cognitive Robotics,
- Bioinformatics,
- Machine learning and soft computing,
- Big Data Analytics,
- Mobile and Wireless Networking,
- Image Processing & Pattern Recognition,
- Information Retrieval Systems,
- Natural Language Processing,
- Speech Processing,
- Workflow analysis,
- Computer Vision,
- Algorithms and Optimization Techniques,
- Software Defined Networking and Cloud Computing

Major Facilities/Equipment available

- High Performance Computing Center (Supercomputer “PARAMTEZ” & "Param Shavak")
- Cluster Computing Facility with Storage.
- Interactive Smart classroom.
- Embedded System Trainer Lab (8085 & Arm) Processor Based (2 Nos).
- Benchmark Lan Trainer/I-Security.
- IBM X3550 M3 Server.
- AR / VR (Augmented Reality and Virtual Reality) Equipment.
- Graphics Workstation - with NVIDIA GeForce RTX 3080.
- Apple iMAC - with Apple M1 chip with 8-core CPU 8-core GPU and 16-core Neural Engine.

Faculty Members:

Designation	Name	Highest Qualification (Institute)	Specialization	<email>@tezu.ernet.in	Date of holding the current position
	Dilip Kumar Saikia	PhD (IIT Kharagpur)	Mobile Computing, Computer Networks	dks	18-03-1997
	Dhruba Kumar Bhattacharyya	PhD (Tezpur University)	Machine Learning, Network Security and Bioinformatics	dkb	14-06-2006
	Smriti Kumar Sinha	PhD (Tezpur University)	Workflow Automation, Semi-structured Databases	smriti	13-09-2007
	Utpal Sharma	PhD (Tezpur University)	Natural Language Processing	utpal	16-12-2013
	Nityananda Sarma	PhD (IIT Guwahati)	Mobile Networks, Networks Security	nitya	09-03-2013
	Bhogeswar Borah	PhD (Tezpur University)	Data Mining, Image Processing	bgb	
	Sarat Saharia	PhD (Tezpur University)	Image processing, Pattern Recognition	sarat	31-08-2016
	Bhabesh Nath	PhD (Tezpur University)	Data Mining, Artificial	bnath	20-10-2020

			Neural Network		
	Siddhartha Sankar Satapathy	PhD (Tezpur University)	Networking, Bioinformatics	ssankar	26-08-2014
	Sajib Kumar Dekha	PhD (Tezpur University)	Computer Networks, Cognitive Radio Networks	skdeka	18-09-2019
	Debojit Boro	PhD (Tezpur University)	Mobile Computing	deb0001	18-11-2019
	Rosy Sarmah	PhD (Tezpur University)	Data Mining	rosy8	24-08-2021
	S Ibotombi Singh	PhD (Tezpur University)	Data Mining	sis	01-08-2004
	L Basantakumar Singh	M. Tech (Tezpur)	Pattern Recognition	lbsingh	15-01-2009
	Arindam Karmakar	PhD (ISI, Kolkata)	Computational Geometry	arindam	10-08-2011
	Sanghamitra Nath	PhD (Tezpur University)	Natural Language Processing, Data Mining	snath	09-09-2011
	Swarnajyoti Patra	PhD (Jadavpur University)	Pattern Recognition, Evolutionary Computing, Neural Networks	swpatra	19-03-2013
	Shobhanjana Kalita	PhD (Tezpur University)	Knowledge Representation & Reasoning	kalitas	06-01-2017
	Nabajyoti Medhi	PhD (NIT Meghalaya)	Knowledge Representation & Reasoning	nmedhi	16-05-2017
	Jyotismita Talukdar	PhD (Gauhati University)	Data Mining, Machine Learning	jyoti4	04-05-2022
	Tribikram Pradhan	PhD (IIT, BHU)	Recommender System, Information Retrieval, Data Mining	tpradhan	21-06-2022
	Upasana Sarmah	M. Tech	Data Mining	upatink	06-03-2023

<i>Guest Faculty</i>	Ringki Das	(Tezpur) Ph. D (NIT, Silchar)	Network Security	ringki	03-04-2023
	Jugal Kumar Kalita	PhD (University of Pennsylvania, USA)	Artificial Intelligence, Bioinformatics, Information Retrieval, Computer Security	jkalita	20-02-2019
	Bhabani P Sinha	PhD (University of Calcutta)	Microprograming, Computer Arithmetic, Fault Diagnosis, Graph Algorithms, Parallel Architectures and Algorithms, Wireless Networks & Mobile Computing	bhabani	20-02-2019

Officers and Staff Members

Designation	Name	<email>@tezu.ernet.in	Date of holding the current position
	Dr. Pranabjyoti Dutta	pjd	01-02-1996
	Dr. Rajib Goswami	rgos	20-03-1997
	Dr. Debasish Das	ddas	06-06-1997
<i>Technical Officer</i>	Gautam Kumar Das	gautamd	05-08-2011
<i>Technical Assistant</i>	Ajay Kumar Sharma	ajay	27-09-2004
	Arun Chetri	arunch	12-12-2007
	Arup Kumar Sarkar	arupks	07-09-2018
<i>Assistant</i>	Babita D	bobi,	2023
<i>MTS</i>	Golap Baruah	golapb	01-06-1995

Major Research and Development Findings

Faculty/ Researcher	Salient Research Findings
D K Bhattacharyya	<p>Some interesting findings observed by our research group of Computational Biology (https://lnkd.in/gXkN-8nU) related to two complex psychiatric disorders, namely Bipolar Disorder (BPD) and Schizophrenia (SCZ). Initially we experimented to understand the molecular mechanisms underlying these disorders using publicly available RNA-seq data from post-mortem samples of the basal ganglia's striatum, which are crucial for refining diagnostic criteria and guiding targeted treatments. Our analysis reveals both 'shared' and 'distinct' genes and long non-coding RNAs (lncRNAs) between both these complex diseases. A significant outcome of our analysis was the identification of 21 DEmRNAs and 1 DElncRNA shared between BPD and SCZ across the Caudate, Putamen, and Nucleus Accumbens. Another noteworthy finding was the identification of Hub nodes within the ceRNA networks that were linked to major psychosis. Particularly, MED19, HNRNPC, MAGED4B, KDM5A, GOLGA7, CHASERR, hsa-miR-4778-3p, hsa-miR-4739, and hsa-miR-4685-5p emerged as potential biomarkers. These findings shed light on the common and unique molecular signatures underlying BPD and SCZ, offering significant potential for the advancement of diagnostic and therapeutic strategies tailored to these psychiatric disorders.</p>

Research Projects (Ongoing and New)

Project Title	Funding Agency	Amount (in INR)	Duration	Investigator(s)
Malware and malware-based attack detection	MeitY	64,26,000.00	2023- 2026	Prof. D. K. Bhattacharyya Co-Investigator –

using machine learning approach				Prof. B. Borah, Dr. D. Boro, Dr. S. Kalita
Development of Secured and Reliable Spectrum Allocation Schemes for Next-generation Elastic Optical Networks	MeitY, Govt. of India	86,31,624.00	2021 - 2024	Prof. N. Sarma Co-Investigator – Prof. S. K. Deka
Developments of semantic-aware structure preserving image filtering techniques	SERB	38,87,664.00	2021 - 2024	Dr. S Patra
Speech Datasets and Models for Tibeto-Burman Languages	NLTM, MeitY	24,36,000.00	2020 - 2023	Dr. Sanghamitra Nath
Ensuring QoS in Internet of Medical Things (IoMT) using Software-Defined Networking (SDN)	Tezpur University & MEITY	36,39,433.00	2020 - 2023	Dr. N. Medhi Co-Investigator - Prof. D.K. Saikia, Dr. S.K. Deka
IIT Bhilai Innovation and Technology Foundation (IBITF) under DST Funding.	IIT Bhilai under DST funding	17,00,000.00	2023 - 2025	Dr. D. Boro
OctaNE Challenge Program (OCP) 2023 under Software Technology Parks of India for direct funding support of Rs. 25 Lacs for 3 years. These calls for setting a startup in the department where the project will be incubated by STPI and is currently working on the opening of the startup.	STPI, GoI	25,00,000.00	2023 - 2026	R. Sarmah
OctaNE Challenge Program (OCP) 2023 under Software Technology Parks of India for direct funding support of Rs. 25 Lacs for 3 years. These calls for setting a startup in the department where the project will be incubated by STPI and is currently working on the opening of the startup.	STPI, GoI	25,00,000.00	2023 - 2026	D. Boro

Publications by Faculty and Staff Members***Publication of Articles in UGC-Care Listed Group I/Group II Journals***

- Bargayary, B. and Medhi, N. (2023). Preserving flow table integrity in OpenFlow networks through smart contract. Cluster Computing, 27: 4569–4588. (SCOPUS, UGC-CARE List (India)). <https://doi.org/10.1007/s10586-023-04196-3>.
- Beura, P. K., Sen, P., Aziz, R., Chetia, C., Dash, M., Satapathy, S. S. and Ray, S. K. (2023). Difference in synonymous polymorphism related to codon degeneracy between co-transcribed genes in the genome of Escherichia coli. Current Science (00113891), 125(8). DOI: <https://doi.org/10.18520/cs/v125/i8/871-877>.
- Bhutani, P., Gupta, M., Bajaj, G., Deka, R. C., Satapathy, S. S. and Ray, S. K. (2023). Is the screen time duration affecting children's language development? - A scoping review. Clinical Epidemiology and Global Health, 25: 101457. (Scopus) <https://doi.org/10.1016/j.cegh.2023.101457>.
- Bortiew, A., Patra, S. and Bruzzone, L. (2023). Active learning for hyperspectral image classification using kernel sparse representation classifiers. IEEE Geoscience and Remote Sensing Letters, 20: 1-5. <https://doi.org/10.1109/LGRS.2023.3264283>.
- Chauhan, P., Deka, S. K. and Sarma, N. (2023). LSTM-enabled prediction-based channel switching scheduling for multi-channel cognitive radio networks. Physical Communication, 60: 102136. (Scopus) <https://doi.org/10.1016/j.phycom.2023.102136>.
- Chauhan, P., Deka, S. K. and Sarma, N. (2023). Multi-objective distributed cooperative spectrum sensing for cognitive radio networks using greedy-based coalitional game. Physical Communication, 61: 102211. (Scopus) <https://doi.org/10.1016/j.phycom.2023.102211>.
- Das, R. and Singh, T. D. (2023). Image–Text Multimodal Sentiment Analysis Framework of Assamese News Articles Using Late Fusion. ACM Transactions on Asian and Low-Resource Language Information Processing, 22(6): 1-30. <https://doi.org/10.1145/3584861>.
- Das, R. and Singh, T. D. (2023). Multimodal sentiment analysis: a survey of methods, trends, and challenges. ACM Computing Surveys, 55(13s): 1-38. <https://doi.org/10.1145/3586075>.

- Das, R. and Singh, T. D. (2024). A hybrid fusion-based machine learning framework to improve sentiment prediction of Assamese in low resource setting. *Multimedia Tools and Applications*, 83(8): 22153-22172. (SCOPUS, UGC-CARE List (India)). <https://doi.org/10.1007/s11042-023-15356-3>.
- Dash, M., Kurmi, A., Meher, P., Satapathy, S. S. and Namsa, N. D. (2024). Codon usage in conserved sites is more biased compared to variable sites in the SARS-CoV-2 genome. *International Journal of Bioinformatics Research and Applications*, 20(1): 42-60.
- Devi, M., Sarma, N. and Deka, S. K. (2023). Single-sided truthful auction mechanism for heterogeneous channel allocation in cognitive radio networks. *Wireless Networks*, 29(8): 3445-3467. <https://doi.org/10.1007/s11276-023-03412-7>.
- Gogoi, D. K., Talukdar, J., Bhattacharyya, D. K. and Singh, T. P. (2023). A Deep Learning Approach to Classify Autism Spectrum Disorder using MRI Images. *Preprints 2023*, 2023091157. <https://doi.org/10.20944/preprints202309.1157.v1>.
- Gupta, A. and Sharma, U. (2024). Deep Learning-Based Aspect Term Extraction for Sentiment Analysis in Hindi. *Indian Journal of Science and Technology*, 17(7): 625-634. <https://doi.org/10.17485/IJST/v17i7.2766>.
- Hijam, D. and Saharia, S. (2024). A multilevel recognition of Meitei Mayek handwritten characters using fusion of features strategy. *The Visual Computer*, 40(1): 211-225. (SCOPUS, UGC-CARE List (India)). <https://doi.org/10.1007/s00371-023-02776-3>.
- Hijam, D. and Saharia, S. (2024). Zone and rule assisted recognition of Meitei-Mayek handwritten characters. *Evolutionary Intelligence*, 17: 2963–2980. (SCOPUS, UGC-CARE List (India)). <https://doi.org/10.1007/s12065-024-00920-z>.
- Jitani, N., Singha, B. J., Barman, G., Talukdar, A., Sarmah, R. and Bhattacharyya, D. K. (2024). Medical image segmentation using automated rough density approach. *Multimedia Tools and Applications*, 83(13): 39677-39705. (SCOPUS, UGC-CARE List (India)) <https://doi.org/10.1007/s11042-023-16921-6>.
- Kalita, K. P., Boro, D. and Bhattacharyya, D. K. (2024). SSE_CIB: Secure storage and exchange of copyrighted images using blockchain. *Transactions Emergency Telecommunication Technologies*, 35(2): e4936. (Scopus) <https://doi.org/10.1002/ett.4936>.

- Pradhan, K. and Patra, S. (2024). Semantic-aware structure-preserving median morpho-filtering. *The Visual Computer*, 40(2): 505-521. (SCOPUS, UGC-CARE List (India)). <https://doi.org/10.1007/s00371-023-02796-z>.
- Rabinder Kumar Prasad, Rosy Sarmah, Subrata Chakraborty, Sauravjyoti Sarmah. (2023) NNVDC: A new versatile density-based clustering method using k-Nearest Neighbors. *Expert Systems with Applications*, 227: 120250. (Scopus). <https://doi.org/10.1016/j.eswa.2023.120250>.
- Rahman, N. and Borah, B. (2024). Query-Based Extractive Text Summarization Using Sense-Oriented Semantic Relatedness Measure. *Arabian Journal for Science and Engineering*, 49(3): 3751-3792. (SCOPUS, UGC-CARE List (India)) <https://doi.org/10.1007/s13369-023-07983-7>.
- Sarkar, T. and Kalita, S. (2023). Bias Estimation Correction in Multi-Agent Reinforcement Learning for Mixed Cooperative-Competitive Environments. *SN Computer Science*, 5(1): 15. (Scopus). <https://doi.org/10.1007/s42979-023-02326-7>.
- Sharma, M. and Sarma, N. (2024). Multi-objective optimization for energy efficient cooperative communication in energy-constrained overlay Cognitive Radio Networks. *Physical Communication*, 62. (Scopus). <https://doi.org/10.1016/j.phycom.2023.102251>
- Sharma, M., Kumar, C. J., Singh, T. P., Talukdar, J., Sharma, R. K. and Ganguly, A. (2024). Enhancing disease region segmentation in rice leaves using modified deep learning architectures. *Archives of Phytopathology and Plant Protection*, 56(20): 1555-1580. <https://doi.org/10.1080/03235408.2024.2310326>.
- Sharma, M., Kumar, C. J., Talukdar, J., Singh, T. P., Dhiman, G. and Sharma, A. (2023). Identification of rice leaf diseases and deficiency disorders using a novel DeepBatch technique. *Open Life Sciences*, 18(1): 20220689. (SCOPUS). <https://doi.org/10.1515/biol-2022-0689>.
- Singh, N. J., Hoque, N., Singh, K. R. and Bhattacharyya, D. K. (2023). Botnet-based IoT network traffic analysis using deep learning. *Security and Privacy*, 355: 1-40. <https://doi.org/10.1002/spy2.355>.
- Talukdar, J., Gogoi, D. K. and Singh, T. P. (2023). A comparative assessment of most widely used machine learning classifiers for analyzing and classifying autism spectrum disorder in toddlers and adolescents. *Healthcare Analytics*, 3: 100178. (SCOPUS). <https://doi.org/10.1016/j.health.2023.100178>.

- Talukdar, K. and Boro, D. (2024). Slowloris Attack Detection Using Adaptive Timeout-Based Approach. ISeCure, 16(1), <https://doi.org/10.22042/isecure.2023.392462.938>.

Publication of Books

- Kalita, J. K., Bhattacharyya, D. K. and Roy, S. (2024). Fundamentals of Data Science: Theory and Practices. Elsevier, ISBN: 978-0-323-91778-0.
- Talukdar, J., Singh, T. P. and Barman, B. (2023). *Artificial Intelligence in Healthcare Industry*. Springer, Singapore, ISBN: 978-981-99-3156-9. DOI: <https://doi.org/10.1007/978-981-99-3157-6>.

Publication of Book Chapters

- Baishya, B., Ahmed, S.A., Nath, B. (2023). Association Rule Mining in Distributed Environment: A Survey. In: Borah, S., Gandhi, T.K., Piuri, V. (eds) Advanced Computational and Communication Paradigms. ICACCP 2023. Lecture Notes in Networks and Systems, vol 535, Pages 113-120, ISBN: 978-981-99-4283-1. Springer, Singapore.
- Das, B., Sinha, S. K. (2023). A CRF-Based POS Tagging Approach for Bishnupriya Manipuri Language Check for updates. In: Nibaran Das, Juwesh Binong, Ondrej Krejcar, Debotosh Bhattacharjee (eds) Proceedings of International Conference on Data, Electronics and Computing: ICDEC 2022. Pages 19, ISBN: 978-981-99-1509-5. Springer, Singapore.
- Jitani, N., Basumatary, A., Sarmah, R. (2023). Deep Learning-Based Tumor Segmentation from CT Images. In: Borah, S., Gandhi, T.K., Piuri, V. (eds) Advanced Computational and Communication Paradigms. ICACCP 2023. Lecture Notes in Networks and Systems, vol 535, Pages: 323-333, ISBN: 978-981-99-4283-1. Springer, Singapore.
- Jitani, N., Verma, V.K., Sarmah, R. (2024). EnRaFS: An Ensemble Ranking-Based Feature Selection Approach for Grading Gallbladder Cancer Using Radiomic Analysis. In: Shaw, R.N., Siano, P., Makhilef, S., Ghosh, A., Shimi, S.L. (eds) Innovations in Electrical and Electronic Engineering. ICEEE 2023. Lecture Notes in Electrical Engineering, vol 1115, Pages 239-247, ISBN: 978-981-99-8660-6. Springer, Singapore.

- Kalita, K.P., Kharbhih, J.C., Boro, D., Bhattacharyya, D.K. (2024). An Enhanced Blockchain Consensus Mechanism Using Proof-of-Work and Proof-of-Stake. In: Deka, J.K., Robi, P.S., Sharma, B. (eds) Emerging Technology for Sustainable Development. EGTET 2022. Lecture Notes in Electrical Engineering, vol 1061, Pages 501 - 511, ISBN: 978-981-99-4361-6. Springer, Singapore.
- Kalita, K.P., Rani, E., Boro, D., Bhattacharyya, D.K. (2024). Blockchain with Adjustable Proof-of-Work Consensus Mechanism for Mobile Devices. In: Deka, J.K., Robi, P.S., Sharma, B. (eds) Emerging Technology for Sustainable Development. EGTET 2022. Lecture Notes in Electrical Engineering, vol 1061, Pages 525 - 535, ISBN: 978-981-99-4361-6. Springer, Singapore.
- Kathing, M., Brahma, R.K., Saharia, S. (2023). Features Fusion-Based Gait Recognition with Covariate Conditions. In: Borah, S., Gandhi, T.K., Piuri, V. (eds) Advanced Computational and Communication Paradigms. ICACCP 2023. Lecture Notes in Networks and Systems, vol 535, Pages 273-279, ISBN: 978-981-99-4283-1. Springer, Singapore.
- Patowary, P., Bhattacharyya, D.K., Barah, P. (2023). Identification of Potential Prognostic Biomarkers for ESCC Using Single-Cell RNA Sequencing Data Analysis. In: Maji, P., Huang, T., Pal, N.R., Chaudhury, S., De, R.K. (eds) Pattern Recognition and Machine Intelligence. PReMI 2023. Lecture Notes in Computer Science, vol 14301, Pages 853-861, ISBN: 978-3-031-45169-0. Springer Nature Switzerland.
- Sarmah, T., Bhattacharyya, D.K. (2023). An Effective Centrality-Based Community Detection Approach Using scRNA-Seq Data for Critical Neuro-Degenerative Diseases. In: Maji, P., Huang, T., Pal, N.R., Chaudhury, S., De, R.K. (eds) Pattern Recognition and Machine Intelligence. PReMI 2023. Lecture Notes in Computer Science, vol 14301, Pages 756-763, ISBN: 978-3-031-45169-0. Springer Nature Switzerland.
- Satapathy, B.S., Satapathy, S.S., Singh, S.I., Chakraborty, J. (2023). Continuous Integration and Continuous Deployment (CI/CD) Pipeline for the SaaS Documentation Delivery. In: Hasteer, N., McLoone, S., Khari, M., Sharma, P. (eds) Decision Intelligence Solutions. InCITe 2023. Lecture Notes in Electrical Engineering, vol 1080, Pages 41-50, ISBN: 978-981-99-5993-8. Springer, Singapore.
- Satapathy, B.S., Satapathy, S.S., Singh, S.I., Chakraborty, J. (2023). Continuous Integration and Continuous Deployment (CI/CD) Pipeline for the SaaS

- Documentation Delivery. In: Hasteer, N., McLoone, S., Khari, M., Sharma, P. (eds) Decision Intelligence Solutions. InCITE 2023. Lecture Notes in Electrical Engineering, vol 1080, Pages 41-50, ISBN: 978-981-99-5993-8. Springer, Singapore.
- Sharma, M., Sarma, N. (2024). Utility-Driven Joint Time-and-Power Allocation in Energy-Harvesting Cognitive Radio Relay Networks. In: Devismes, S., Mandal, P.S., Saradhi, V.V., Prasad, B., Molla, A.R., Sharma, G. (eds) Distributed Computing and Intelligent Technology. ICDCIT 2024. Lecture Notes in Computer Science, vol 14501, Pages 3-17, ISBN: 978-3-031-50582-9. Springer Nature Switzerland.
 - Verma, A., Agarwal, R., Borah, B. (2024). A Recent Survey of Reversible Data Hiding Techniques for 2D and 3D Object Models. In: Roy, B.K., Chaturvedi, A., Tsaban, B., Hasan, S.U. (eds) Cryptology and Network Security with Machine Learning. ICCNSML 2022. Algorithms for Intelligent Systems, Pages 279-294, ISBN: 978-981-99-2228-4. Springer, Singapore.

Conference Publications

- Barbhuiya, D. H., Deka, S. K., Chatterjee, B. C. and Sarma, N. (2023). ML-DSP: Machine Learning-Assisted Dynamic Spectrum Partitioning in Elastic Optical Networks. IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS), Pages 108-113, Jaipur, India. IEEE.
- Bortiew, A. and Patra, S. (2023). Active Learning Using Multifeature Kernel Sparse Representation Classifier for Hyperspectral Image Classification. IEEE India Geoscience and Remote Sensing Symposium (InGARSS), Pages 1-4, Bangalore, India. IEEE
- Das, K., Dutta, T. L., Ray, K., Ghosh, R., Goswami, D., Dey, A., Phukan, P., Das, P., Deka, V. K. and Medhi, N. (2023). Performances of M2M Protocols in Internet of Medical Things. IEEE International Conference on Communications Workshops (ICC Workshops), Pages 1289-1294, Rome, Italy. IEEE.
- Gogoi, J. and Nath, S. (2023). Analysing word stress and its effects on assamese and mizo using machine learning. 2nd International Conference on Paradigm Shifts in Communications Embedded Systems, Machine Learning and Signal Processing (PCEMS), Pages 1-6, Nagpur, India. IEEE
- Gupta, A. and Sharma, U. (2024). Machine Learning Based Aspect Category Detection for Hindi Data Using TF-IDF and Count Vectorization. 2nd International

Conference on Device Intelligence, Computing and Communication Technologies (DICCT), Pages 39-44, Dehradun, India. IEEE.

- Kashyap, I., Deb, D. and Sarma, N. (2023). Grep: Performance Enhancement in MultiCore Processors using an Adaptive Graph Prefetcher. IEEE Computer Society Annual Symposium on VLSI (ISVLSI), Pages 1-6, Foz do Iguacu, Brazi. IEEE.
- Longkumer, A., Walling, S. and Kalita, S. (2023). Pulmonary Nodule Detection in Computed Tomography Images Using Deep Learning. International Conference on Advances in Electronics, Communication, Computing and Intelligent Information Systems (ICAECIS), Pages 384-389, Bangalore, India. IEEE.
- Ramdinmawii, E., Mittal, V. K. and Nath, S. (2024). Acoustic Characterization of Mizo Folk Songs. National Conference on Communications (NCC), Pages 1-6, Chennai, India. IEEE
- Ray, K., Medhi, M., Ghosh, R., Das, P., Deka, V. K. and Misra, S. (2023). RISP-SDN: Reputation Aware IoMT Service Provisioning Using SDN in Edge/Fog-Based Systems. GLOBECOM 2023-2023 IEEE Global Communications Conference, Pages 510-515, Kuala Lumpur, Malaysia. IEEE.
- Sarma, P. and Singh, S. I. (2024). Handcrafted Feature Assisted Light-Weight Encoder Decoder Based Classifier for Yoga Posture Recognition. 2nd International Conference on Device Intelligence, Computing and Communication Technologies (DICCT), Pages 681-686, Dehradun, India. IEEE
- Sarmah, T. and Bhattacharyya, D. K. (2023). Extraction of Functionally Related Genes for Schizophrenia using Network Analysis in bulk RNA-Seq Data. 4th International Conference on Computing and Communication Systems (I3CS), Pages 1-5, Shillong, India. IEEE.

Conference/Workshop/Symposium/Seminar etc. Attended

Name of the faculty member	Title of the paper	Organized by	Date/Period, year	Place/institute/venue
D K Bhattacharyya	Chaired four (04) sessions in Int'nl Conference	CoDSS 2024	10-11 February, 2024	India
S. Nath	Technology and Bharatiya Bhasha Summit	Ministry of Education, Govt.of India.	30 Sept - 1 Oct, 2023	DAIC, New Delhi

S. Nath	FDP on Implementation of NEP 2020 in HEIs	TLC, TU	26 April – 2 May, 2023	Tezpur University, Assam
J. Talukdar	Interdisciplinary Refresher Course on Curriculum and Pedagogy	TLC, TU	7 June – 20 June, 2023	Tezpur University, Assam
J. Talukdar	Reviewer in the 4th International Conference on Computational Intelligence & Internet of Things (ICCIoT), 2023	University of Malta	4 Dec – 6 Dec, 2023	Malta
J. Talukdar	Short Term Course on NEP Orientation & Sensitization under Malaviya Mission Teacher Training Programme (MM-TTP) of the University Grants Commission (UGC)	MMTTC, Tezpur University	4 Dec – 13 Dec, 2023	Tezpur University, Assam
J. Talukdar	One-week national workshop on Emerging tools and Technologies in Research	Tripura University	20 Nov – 24 Nov, 2023	Online

Talks By the Faculty Members (Abroad and in India)

Name of Faculty Member	Title of the Talk	Title of the Event	Date	Organizer and Venue
S. Kalita	An introduction to Artificial Intelligence and its current trends	Workshop on Data Science and Artificial Intelligence using Python	9/11/2023	ISI North East Centre
D. K. Bhattacharyya	Data DRiven AI	Int'nl Conference on Data Driven AI	15/3/2024	Kaziranga University

D. K. Bhattacharyya	Ethical Navigation for Trustworthy ML in Securing IoT	Int'nl Conference CoDSS2024	10/2/2024	Tezpur University
D. K. Bhattacharyya	Machine Learning in Data Science: A Sustainable Approach	Lecture Series	16/11/2023	GIMT University
N. Sarma	Cybersecurity	One day workshop on Self Defense	29/08/2023	Tezpur University
N. Sarma	Challenges and Opportunities in Computer Science	Orientation Programme	12/07/2023	USTM
S. Nath	Introduction to Speech-to-Speech Translation Systems	Two-week Summer School on Recent Trends in Speech Processing and Its Application	20/06/2024	School of Computer Applications, KIIT-DU
S. Nath	Speech Signal Analysis using PRAAT	Two-week Summer School on Recent Trends in Speech Processing and Its Application	10/06/2024	School of Computer Applications, KIIT-DU

Seminar/Workshop/Symposia/Invited Lectures Organised

Title	Date / Period, year
Five-Day Workshop on Artificial Intelligence and Data Science: The Future of Technology	4 – 8 March 2024
SERB and INAE Sponsored two-day Symposium for Young Women Engineers on Technologies for Sustainable Developments in North Eastern Regions	20 21 November 2023

Awards/Honours/Notable Achievements

Name of Awardee	Designation of Awardee	Achievement	Event/ Awarded by
D. K. Bhattacharyya	Professor	S & T Policy Formulation Committee Member	ASTEC, Assam Govt

R. Sarmah	Associate Professor	Startup funding: OctaNE Challenge Program (OCP) 2023 under Software Technology Parks of India for direct funding support of Rs. 25 Lacs for 3 years. These calls for setting a startup in the department where the project will be incubated by STPI and is currently working on the opening of the startup.	OctaNE Challenge Program (OCP) 2023
D. Boro	Associate Professor	Startup funding: OctaNE Challenge Program (OCP) 2023 under Software Technology Parks of India for direct funding support of Rs. 25 Lacs for 3 years. These calls for setting a startup in the department where the project will be incubated by STPI and is currently working on the opening of the startup.	OctaNE Challenge Program (OCP) 2023

Distinguished Visitors

Prof. Jugal Kumar Kalita, Professor, University of Colorado, Colorado Springs, USA

Prof. S. Nandi, Professor, IIT Guwahati, India

Dr. Saroj Meher, ISI Bangalore, India

Number Of Students Qualified in Net-Jrf/Slet/Gate Etc.

Qualifying Examination	Number of Qualified Students
NET- JRF/LS	06
GATE	18

Notable Placements

Name of Student	Programme	Organization Name	Position	Package (Lakhs PA)
Hirok Jyoti Nath	B-Tech CSE	IBM(Software AG)	Software Engineer	12.4
Akhilesh Kumar	MCA	Xllent Corporate Services Pvt. Ltd.	Software Engineer	12
Panchal Prakrit Khargharia	B-Tech CSE	LG Soft India	Research Engineer	7.56
Rajdeep Bora	B-Tech CSE	LG Soft India	Research Engineer	7.56

Bhaskar Jyoti singha	M-Tech CSE	TCS	System Engineer	7.30
Sanskriti Jain	B-Tech CSE	TCS	System Engineer	7
Dipak Sarmah	B-Tech CSE	TCS	System Engineer	7
Shivani Tiwari	B-Tech CSE	Alstom	GET	6.8
Dibyasree Lahkar	M-Tech CSE	Sanjivani Group of Institutes	Assistant Professor	6
Jyotimoyee Kalita	M-Tech CSE	Sanjivani Group of Institutes	Assistant Professor	6
Mridu Pawan Baruah	M-Tech IT	Sanjivani Group of Institutes	Assistant Professor	6
Daisy Mudiar	M-Tech CSE	Sanjivani Group of Institutes	Assistant Professor	6
Rahul Singh	MCA	CDAC		6
Sanjit Kumar Rai	MCA	ESAF	Executive Trainee	4.7
Vishal Kumar Singh	MCA	ESAF	Executive Trainee	4.7
Mohd Salman	MCA	ESAF	Executive Trainee	4.7
Anal Raj	M-Tech CSE	ESAF	Executive Trainee	4.7
Jentiren Tzudir	MCA	TechVariable Pvt. Ltd.	Junior Programmer Analyst	4.5
Srishti Saumya	MCA	Accenture	Packages App Development Associate	4.35
Debankar Dutta Chowdhury	B-Tech CSE	Software AG	Intern	4.2
Hirok Jyoti Nath	B-Tech CSE	Software AG	Intern	4.2
Rahul Kumar Sah	B-Tech CSE	Software AG	Intern	4.2
Ayushman Singh	B-Tech CSE	Software AG	Intern	4.2
Bikash Jyoti Gogoi	MCA	Cognizant Technology	Programmer Analyst	4

DEPARTMENT OF DESIGN

About the Department

The Department of Design at Tezpur University was established in 2019 as a vital component of the School of Engineering, driven by the recognition of the critical role that design education plays in the successful development of innovative and functional products. In a country like India, which boasts a vast and diverse market, there is an urgent need for an extensive array of thoughtfully designed products that cater not only to its own population but also to global consumers. This demand aligns perfectly with the vision of "Atmanirbhar Bharat," which emphasizes self-reliance and indigenous innovation. To meet these challenges, it is essential to train and prepare future generations of technocrats equipped with a robust design perspective.

To this end, the department offers a range of dynamic academic programs, including Bachelor of Design (B.Des), Master of Design (M.Des), and doctoral programs, all of which emphasize specialized fields such as Industrial Design, Product Design, Interaction Design, and Communication Design. The curriculum for the newly introduced B.Des program has been meticulously crafted following the guidelines set forth by the National Education Policy 2020, ensuring that it remains relevant and forward-thinking.

Moreover, the department fosters an environment that encourages exploration across various domains, such as social innovation, healthcare, and education. Students are trained to address contemporary societal challenges by navigating the intricate intersections of Design, Technology, and Human Experience. This holistic approach not only equips them with practical skills but also inspires them to become thoughtful designers who can contribute meaningfully to society.

Academic Programmes and Student Intake

Academic Programme	Student Intake
<i>Master of Design (M. Des.)</i>	18
<i>Bachelor of Design (B. Des.)</i>	30
<i>PhD in Design</i>	8

Thrust Research Areas of the Department

- Product Design
- Interaction Design
- Visual Communication Design
- Community-based Design
- Sustainable Design

Major Facilities/Equipment available

- **Digital Prototyping Studio:** The studio has the following equipment
 - 10 numbers of High End Computers (HP Z2 G4 Intel Core i7-9700/ 16GB/ 1TB)
 - 02 numbers of Workstation (Dell Precision 3640)
 - Software Packages (Solidworks)
 - Cintiq Pro for product styling, illustrations, and visual design
 - 01 Wacom Cintiq Pro 32 inch
 - 02 Wacom Cintiq Pro 24 inch
- **Physical Prototyping Studio:** The studio has the following equipment
 - 3D Clay and Plastic Printer
 - 3D Printer with Nylon, PLA, ABS, CPE and PVA Printing
- **Communication Studio:** The studio has the following equipment
 - DSLR Camera
 - Tripods
 - VR Sets
- **Product Development Workshop:** With facility of Woodwork and Metal Work

Faculty Members

Designation	Name	Highest Qualification (Institute)	Specialization	<email>@tezu.ernet.in	Date of holding the current position
<i>Professor</i>	Partha Pratim Dutta y, HoD(i/c)	Ph. D. (Tezpur University)	Renewable Energy. Thermal Engineering	ppdutta	15-09-2022
	Shiv Kumar Verma	Ph. D. (IIT Guwahati)	Industrial Design	shiv	10-06-2020
		PhD (IIITDM Kancheepuram)	Product Design, Thermal Sciences	srini	19-01-2022
	Kankana Narayan Dev	Ph. D. (IIT Guwahati)	Architecture and Urban Design, Humanitarian Design, Visual Communication Design	kankana.dev	24-09-2021
	Hari Brat Saikia	M.Des CIT Kokrajhar	Interaction Design	hari	17-09-2022
	Jintu Mahanta	M Des CIT Kokrajhar	Multimedia and Communication Design	jintu	16-10-2023

	Pratyusha Barua	NIFT, New Delhi	Social Behaviour Design, Fashion Design	pbarua	16-10-2023
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Officers and Staff Members

Designation	Name	<email>@tezu.ernet.in	Date of holding the current position
Laboratory Assistant	Mr. Himanshu Nath	himansu	18-01-2021
MTS	Mr. Gitartha Bhatta	gitarthabhatta123@gmail.com	17-12-2021
Workshop Technician	Mr Hiral Jyoti Haloi	munti143@gmail.com	01-04-2023

Publications by Faculty and Staff Members

Publication of Articles in UGC-CARE Listed Group I/Group II Journals

- Gouda, R.K., Srinivasan, G., Umesh, V., Raja B. Surface enhancement for boiling heat transfer through micro holes for electronic cooling applications. *Sadhana* 48, 210 (2023). <https://doi.org/10.1007/s12046-023-02251-8>
- Gouda, R.K., Srinivasan, G., Umesh, V., Raja B. Surface enhancement for boiling heat transfer through micro holes for electronic cooling applications. *Sadhana* 48, 210 (2023). <https://doi.org/10.1007/s12046-023-02251-8>
- Sinha, S., and Srinivasan G, Redesigning Tools for Fox Nut (Makhana) Farming and Processing: An ergonomic study, 4th Asian Conference on Ergonomics and Design (ACED) jointly with 21st Humanizing Work and Work Environment (HWWE) Conference 2023, IIM Mumbai, December 14 – 16, 2023
- Upadhyay, J, K., and Srinivasan G, Weaving Wellness: Ergonomic Approaches to Mitigate Musculoskeletal Disorders in Shital Pati Artisans, 4th Asian Conference on Ergonomics and Design (ACED) jointly with 21st Humanizing Work and Work Environment (HWWE) Conference 2023, IIM Mumbai, December 14 – 16, 2023
- Shrivastava, H, M., and Srinivasan G, An Ergo Taylor Frame for Visually Impaired Students: Human-Centric Redesign, 4th Asian Conference on Ergonomics and Design (ACED) jointly with 21st Humanizing Work and Work Environment (HWWE) Conference 2023, IIM Mumbai, December 14 – 16, 2023
- Dev, K. N., & Das, A. K. (2024). Housing of Assam: A Case Study of Disaster Resilient Built Typology. *Sakura Science Exchange Program 2024*. Fukuoka. Japan.
- Dev, K. N., & Das, A. K. (2023). Exploring Participatory Design Approach for Disaster Risk Reduction in the Context of Flood Disaster in Assam, India. In *International Conference on Research into Design* (pp. 1173-1183). Singapore: Springer Nature Singapore.
- Mahanta, J., Nath, S., Saha, B. (2023). Gamification Concept for Cognitive Learning of Indian Traffic Rules and Regulations for Safe Driving. In: Chakrabarti, A., Singh, V. (eds) *Design in the Era of Industry 4.0, Volume 2*. ICORD 2023. Smart Innovation, Systems and Technologies, vol 342. Springer, Singapore. <https://doi.org/10.1007/978-981-99-026>

DEPARTMENT OF ELECTRICAL ENGINEERING

About the Department

The Electrical Engineering department started in 2014 under the School of Engineering with the B.Tech program. The prime motive of the department is to impart quality education, training and research at the undergraduate level in the forefront areas of Electrical Engineering and its allied technologies. The Department currently offers B.Tech. and PhD in Electrical Engineering. This programme aims at producing engineers with sound basic and applied knowledge in electrical engineering. The department is going to start its M.Tech. Programme in Power & Energy Systems from 2024.

Department plans to expand its teaching and research infrastructure, enhance its industrial and research collaboration, and implement modern techniques for training to realize the above goal.

The key areas of faculty expertise of the department include Power System Engineering, Power Electronics, Nonlinear Analysis-Theory, Methods & Applications, Control Systems, Fractional Order Chaotic Systems, Converter and Inverter Topologies, Sensor Technologies, Smart Grid Technologies and Policy Design, Distributed Generation Based System Optimization, Renewable Energy Management, Bio-electronics and Neuro Engineering.

Academic Programmes and Student Intake

Academic Programme	Intake
B.Tech	Variable, 38 in the 2023-2024
B.Tech lateral Entry	Variable, 09 admitted in the 2023-2024
PhD	Variable, 05 admitted in the 2023-2024

Thrust Research Areas of the Department/Centre

- Thrust area 1: Sensor, Measurement & Instrumentation
- Thrust area 2: Energy storage and control system; Renewable energy
- Thrust area 3: Power Electronics and Drives, Microgrid
- Thrust area 4: Sensors & Sensing Technologies for Green Energy, Food and Health

Major Facilities/Equipment available

- Low Resistance Measurement Kelvin Double Bridge Kit
- Impedance Analyzer
- NIELVIS III with FPGA
- Ultra Sonicator fixed frequency

- Trace Moisture Generation Unit
- Power System & Protection Lab
- Magnetic Levitation System for Control System Design.
- PCB Prototyping Machine.
- Typhoon-Hardware in loop (HIL) 402 Real Time Emulator
- Magnetic levitation system
- Hot Air Oven
- Muffle Furnace with Profile controller upto 1000 C
- Hot Plate with Magnetic Stirrer
- Power Electronics Lab
- Conductivity Meter
- Microgrid Control Setup

Faculty Members:

Designation	Name	Highest Qualification (Institute)	Specialization	<email> @tezu.ernet.in	Since (date since which in the current position)
Professor	Asim Datta	Ph.D (IEST, Shibpur)	Renewable Energy Sources, Power and Energy Engineering	asim	01-12-2021
	Manashita Borah	Ph.D (NIT Silchar, Assam)	Smart Energy storage,	manabor	03-10-2020

		Control Systems Electric vehicles AI-integrated renewable energy applications		
Barnam Jyoti Saharia	M.Tech (NIT Agartala, Tripura)	Power Electronics, Renewable Energy, Hybrid PV-Wind Energy System Modeling and Optimization Soft Computing - Optimization Techniques and Algorithms - Hybrid Algorithms	bjsece	19-11-2019
Anish Ahmad	Ph.D. (IIT (BHU) Varanasi)	Power Electronics and Drives; Modeling and Control of Power Electronics and Drives systems; Renewable Energy Integration; Microgrid/ Smartgrid; Electric Vehicle/Hybrid Electric Vehicle	aahmad	20-01-2020

	Soumya Samanta	Ph.D. (NIT, Silchar, Assam)	Power and Energy Systems Engineering Renewable Energy Integration and Microgrid Control Power/Energy Management in Microgrid Electric Vehicle and Drives	soumya	06-12-2021
	Dr. Kaveri Bhuyan	Ph.D.: (NERIST), Arunachal Pradesh	Power System & High Voltage Engineering	kaverib	01/08/2022
	Kamaljyoti Gogoi	M. Tech: (NERIST), Arunachal Pradesh	Power System, Power System Operation & Control, Grid analysis, Smart Grid	kjgogoi	18/11/2022
	Shruti Sahu	M.Tech: National Institute of Technology Meghalaya	Microgrids, Shunt Active Filters & Power Quality Improvement	sshruti	15/12/2022
	Prashant Prakash	M.Tech: MNNIT, Allahabad	Control and Instrumentation	prashant	06/03/2023
	Gourab Bhuyan	M.Tech: Assam Engineering College,	Power System Engineering, Grid integration, Renewable energy	gourab	31/03/2023

		Jalukbari, Assam			
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Staff Members

Designation	Name	<email> @tezu.ernet.in	Since
Laboratory Assistant	Mr Biswajeet Nath	biswa89	22/10/2019
Office Assistant	Mr Mrinal Basumatary	mrin123	28/10/2021
Office Staff	Mr Dipak Saikia	dipsai	02/05/2022
Technical Assistant	Mr Madhujya Dowarah	dowarah	02/06/2022
Technical Assistant	Mr Ankur Jyoti Gogoi	gogoi aj	29/07/2022
Technical Assistant	Mr Bedanta Gogoi	gogoi02	22/08/2022

Major Research and Development Findings

Faculty/ Researcher	Salient Research Findings
Dr. Asim Datta	Development of a modified unipolar modulation full-bridge topology that exhibits constant common-mode voltage to suppress the common-mode ground leakage current.
Dr. Anish Ahmad	Design a novel high voltage conversion converter suited for Electric Vehicle (EV) Application. In EV applications input voltage is given through the battery and this battery voltage has constrain. In order to enhance the battery voltage and meet the bus voltage requirement a converter is required which converts high conversion. The proposed converter gives a minimum 5.8 times gain which is not found in the conventional converter of that segment.
Dr. Md Rahat Mahboob	Developed a cross capacitive sensor based on the extension of Thompson and Lampard Theorem, a well-known principle used for

	fabrication of the primary standard of capacitor, for the detection of salt concentration in food items.
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Research Projects (both Ongoing and New)

Project Title	Funding Agency	Amount (in INR)	Duration	Investigator(s)
High Voltage Gain Converters for Renewable Energy Resource Applications	UGC-FRPS	1000000.00	2 Years and 4 Months (December 2021 - March 2024)	Dr. Anish Ahmad
Development of an on- Board Hybrid charging system for Hilly-station Performance Light Electric Vehicle	Central Power Research Institute (CPRI),	31,46000.00	2 Years and 9 Months (2022-2024)	Dr. Asim Datta (PI) Dr. Anish Ahmad (Co-PI)
Dr. Md Rahat Mahboob	ANRF (DST) CRG Grant	33.80 Lakh	3 Years	Dr. Md Rahat Mahboob (PI) Prof B Srivastava (Co-PI) Prof R K Duary (Co-PI)

Publications by Faculty and Staff Members

1. J. Kundu, V. Koledov, R. M Stephan, Z. Deng, Manashita Borah, B. K. Roy, S. von Gratowski, A. Pati, S. Kashyap, (2023), "Design, testing and implementation of a linear state variable feedback controller for providing tracking/regulation of a large platform of a Maglev vehicle", *Proceedings of the Institution of Mechanical Engineers, Part I: Journal of Systems and Control Engineering*, vol. 237, pp. 1206-1218, Sage, doi: <https://doi.org/10.1177/09596518231153689>
2. PP Singh, Manashita Borah, A Datta, S Jafari, BK Roy, (2023) "Integer cum fractional ordered active-adaptive synchronization to control vasospasm in chaotic blood vessels to reduce risk of COVID-19 infections", *International Journal of Computer Mathematics*, pp.

1-15, 2023, Taylor & Francis, ISSN: doi:
<https://www.tandfonline.com/doi/abs/10.1080/00207160.2022.2163167>

3. Castillo-Atoche, Andrea and Colín Garcia, Norberto Alonso and Estrada-Lopez, Johan Jair and Vazquez-Castillo, Javier and Heredia-Lozano, Julio and Burgos-Reyes, Marcelo and Datta, Asim and Castillo-Atoche, Alejandro. (2023) A study on the renewable power generation capacity of microalgae microbial fuel cells for powering GlOT sensor nodes. *Journal of Power Sources* Vol. 580 : 233185.<https://doi.org/10.1016/j.jpowsour.2023.233185>

4. Saharia, Barnam Jyoti, and Nabin Sarmah. (2023). A comparative assessment of popular tracking algorithms used in standalone photovoltaic systems. *International Journal of Power Electronics and Drive Systems (IJPEDS)* 14.(3) 1834-1843. DOI: 10.11591/ijpeds.v14.i3.pp1834-1843

5. Saharia, Barnam Jyoti, and Nabin Sarmah. (2023). Grey wolf optimizer for the design optimization of a DC-DC boost converter. *Bulletin of Electrical Engineering and Informatics*, 12(6), pp.3263-3270. DOI: 10.11591/eei.v12i6.5846.

6. S. A. Ali, M. R. Mahboob and T. Islam, "An Intelligent Food Salt Tester Using Cross-Conductive Sensor," in *IEEE Open Journal of Instrumentation and Measurement*, vol. 2, pp. 1-8, 2023, Art no. 2500208, doi: 10.1109/OJIM.2023.3280502.

7. Hussain, S., Ali, S.A., Islam, T. Mahboob, M.R. Design and detection method of a four electrodes cross-conductive sensor for fluid conductivity measurement. *Appl. Phys. A* 129, 314 (2023). <https://doi.org/10.1007/s00339-023-06577-2>

8. Kumar, A., Kumar, M., Mahboob, M.R. et al. Influence of °Brix/Acid, and flow rate of pineapple juice and electric field strength on the performance of continuous ohmic heating system. *J Food Sci Technol* 61, 1188–1200 (2024). <https://doi.org/10.1007/s13197-024-05961-x>.

9. **S. Samanta**, S. Datta, B. K. Roy, (2024) "FPGA Implementation of an Inertia Emulation Control Strategy for a DC Microgrid", *IEEE Transactions on Energy Conversion*, 39 (2), 999-1010. DOI: 10.1109/TEC.2023.3343381

Publication of Books

Publication of Book Chapters

1. Saharia, Barnam Jyoti, Dimpy Mala Dutta, and Nabin Sarmah. (2023) Grey Wolf Optimizer for the design optimization of a DC-DC buck converter. In Sandeep Singh, Aliakbar Montazer Haghighi, and Sandeep Dalal., editors, *Advanced Mathematical Techniques in Computational and Intelligent Systems*, pp. 211-227. CRC Press.

2. L Saha, S Prasad, H Chetia, S Chural, **Anish Ahmad**, “System for Health Monitoring Built on IoT

Using ESP8266-01 and Arduino” Book Title: ‘*The Future of IoT with Automation in Engineering and*

Modern Technology’, Chapter 06, 2024, pp. 131-165, **Nova Science Publishers**, Hauppauge, NY, USA,

ISBN: 979-8-89113-655-7 , DOI: <https://doi.org/10.52305/KLWR1731>

Publication of Articles in Conference Proceedings

- Siddhartha Deb Roy, Sanjoy Debbarma, Kingshuk Roy, Liza Debbarma, and **Asim Datta**. "A Non-Iterative Model-Based Intrusion Detection System for AGC System." In 2023 IEEE Guwahati Subsection Conference (GCON), pp. 1-6. IEEE, 2023.
- Yaheya Al Aman, **Asim Datta**, “An Effective Filter Design for Single-Phase Inverters”, *IEEE Guwahati Subsection Conference (IEEE-GCON 2023)*, 23 June - 25 June 2023, IIT Guwahati, Guwahati, Assam.
- Pooja Deori, **Anish Ahmad**, “Multi-Output Hybrid Quasi Z-Source Converter with Dual DC and Multiple AC Outputs”, 2023 IEEE 3rd International Conference on Smart Technologies for Power, Energy and Control (STPEC), Bhubaneswar, India, 10th to 13th December, **2023**, pp. 1-6. doi: 10.1109/STPEC59253.2023.10430897.
- Pooja Deori, **Anish Ahmad**, “Modified Switched Boost Continuous Input Current Based Impedance Source DC-DC Converters”, 2023 IEEE 3rd International Conference on Smart Technologies for Power, Energy and Control (STPEC), Bhubaneswar, India, 10th to 13th December, **2023**, pp. 1-6. doi: 10.1109/STPEC59253.2023.10430926.
- S S Saikia, K R Khotle, N S Babu, **Anish Ahmad**, and Asim Datta, “Permanent Magnet Brushless DC Motor Speed Control using Arduino Uno Microcontroller for Electric Vehicles Applications”, International Conference on Emerging Advances and Applications in Green Energy (ICEAAGE-2024), Vijayawada, Andhra Pradesh, India, 29th February 2024, pp. 1-8. ISBN: 978-93-6128-558-5
- M P Kashyap, N J Pathak, J Roy, Karan Saikia, **Anish Ahmad**, “IoT Based Smart Dustbin for Better Waste Management”, International Conference on Emerging Advances and Applications in Green Energy (ICEAAGE-2024), Vijayawada, Andhra Pradesh, India, 29th February 2024, pp. 1-5. ISBN: 978-93-6128-558-5
- C. Datta, Chiranjeev, A. Roy and S. Samanta, "Control and Analysis of a Grid connected Bi-Directional Converter-Inverter Interfaced Battery Energy Storage System", *IEEE 5th International Conference on Energy, Power and Environment (ICEPE) 2023*, 1-6, NIT Meghalaya, Shillong, India, June 15-17, 2023.
- A. Roy, C. Datta, Chiranjeev and S. Samanta, "Performance Analysis and Control of Bi-Directional Converter-Inverter Interfaced Battery System for Electric Transportation", *IEEE 3rd International Conference on Sustainable Energy and Future Electric transportation (SEFET 2023)*, 1-6, Bhubaneswar, Odisha, India, August 9-12, 2023.

Publication of Articles in Other Forms***Publication of Patents***

Inventor(s)	Patent Title	Application/ Patent Number	Published/ Granted	Country
Abdul R Beig, Anish Ahmad , Jamal Alsawalhi and Khaled Ali Mohammed Ali Al Jaafari	<i>Ultra High Gain Bidirectional DC to DC Converter</i>	US202300848 72A1	Published	US

Conference/Workshop/Symposium/Seminar etc. Attended

Name of Faculty/Staff Member	Purpose of Attending	Title of Event	Date/Period	Organizer and Venue
Manashita Borah	Paper Presentation	Modelling, Estimation and Control Conference, IFAC,	2 nd -5 th October 2023	Lake Tahoe, Nevada, USA
Anish Ahmad	Paper Presentation (self finance)	IEEE 3 rd International Conference on Smart Technologies for Power, Energy and Control (STPEC), Bhubaneswar, India	10 th to 13 th December, 2023	School of Electrical Engineering, KIIT Deemed to be University, Bhubaneswar, India
Asim Datta	Paper Presentation	,IEEE Guwahati Subsection Conference (IEEE-GCON 2023), IIT Guwahati,	23 June - 25 June 2023,	IIT, Guwahati, Guwahati, Assam.

		Guwahati, Assam.		
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Invited Talk

Name of Faculty Member	Title of the Talk	Title of the Event	Date	Organizer and Venue
Asim Datta	Energy Storage Systems for Sustainable Development	Faculty Development Program on “Energy Storage Systems for Sustainable Development” from	11th July to 15th July, 2023	Guru Nanak Institute of Technology , JIS Group, Panihati, Kolkata
Anish Ahmad	Analysis and Design of Impedance source converters	IEEE PELS week	29-07-2023	IEEE PELS Society UP
Anish Ahmad	Z-source Inverter Topology Advancement & Applications	One week workshop & Faculty Development Program	27-05-2024 to 31-05-2024	GKCIET Malda
Manashita Borah	Energizing Tomorrow: Exploring the Cutting Edge of Battery Research	Fulbright outreach lecture	2nd October, 2023	Biology and Chemistry Departments, Lake Tahoe Community College, Nevada, USA.
Manashita Borah	When Physics inspires learning machines	Seminar resource person	16th October, 2023	MESA Lab, Department of Mechanical Engineering,

	through a fractional-order dynamical framework to estimate energy storage performance			University of California, Merced, USA
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Awards/Honours/Notable Achievements

Name of Awardee	Designation of Awardee	Achievement	Event/Awarded by
Fellow-IETE	Faculty Member	Dr. Anish Ahmad	IETE India
Fulbright fellowship (Oct 22-Nov 23)	Faculty Member	Dr Manashita Borah	Fulbright USIEF
Finalist in Best Student paper award	Faculty Member	Dr Manashita Borah	IEEE American Control Conference, 2024 at Canada

Other Significant Activities of the Department/Centre

- Student one day academic excursion:** The 7th and 5th semester students of the Department of Electrical Engineering were taken for a one-day academic excursion to Rangapara North Junction Railway Station, Rangapara Assam on 28th August 2023. The students were briefed with an overall overview of Railway Junction maintenance and protection. The theory and operation of the converter substation, transformers power and distribution, switchyard, power electronic equipment, and protection devices working at the Railway Junction and their features were also covered in detail. The various on site transformers, lightning arrays, circuit breakers and isolators, and other operating equipment were also shown to the student via a tour of the Railway junction/station. The students interacted with the resource person Er. Satya Prakash Yadav, Senior Section Engineer, Electrical General NFR and his colleagues were happy to answer their questions and clarify any doubts that were present.

- **Invited talk by Prof. Akshay Kumar Rathore:** The Department of Electrical Engineering invited Professor Akshay Kumar Rathore, from Singapore Institute of Technology, Singapore for a talk. The talk spanned across design and development of power electronics technology for electric grid integration of vehicles, wireless power charging applications to name a few. After a short break, Prof. Rathore also talked about the role of IEEE and Research and discussed various schemes in place for the students of Northeastern Institutions in the form of fellowships and scholarships

Number of Students Qualified in NET-JRF/SLET/GATE etc.

Name of Qualifying Examination	Number of Qualified Students	Academic Programme
GATE (Electrical Engineering)	03	B.TECH in EE
CEED	01	B.TECH in EE

Notable Placement of Students

Name of Student	Academic Programme	Placement Designation	Company/ Organization	Type of Selection
Sandeep Mondal	B.TECH in EE	Graduate engineer trainee	Larsen & Toubro Limited	On-Campus
Gajendra Yadav	B.TECH in EE	Faculty (Physics)	Akash Educational Studies Limited	On-Campus
Rahul Kumar	B.TECH in EE	Graduate engineer trainee	Indradhanush Gas Grid Limited	On-Campus
Tapashya Mazumdar	B.TECH in EE	Graduate engineer trainee	Alstom	On-Campus
Shneha Prasad	B.TECH in EE	Graduate engineer trainee	Alstom	On-Campus
Antara Gayan	B.TECH in EE	Assistant Manager(Electrical)	Assam Power Distribution Company Limited (APDCL)	Off-Campus
Partha Pratim Bora	B.TECH in EE	Assistant Manager(Electrical)	APDCL	Off-Campus
Gitashri Doley	B.TECH in EE	Assistant Manager(Electrical)	APDCL	Off-Campus
Ritupan Bhuyan	B.TECH in EE	Assistant Manager(Electrical)	APDCL	Off-Campus

Enrollment of Students in other Institutes for Higher Studies

Name of Student	Academic Programme	Name of other Institute	Enrolled Academic Programme
Hrishita Chetia	B.TECH in EE	IIT Guwahati	M.Des (Electronic Product Design)
Muzammil Ahmed	B.TECH in EE	IIT, Bhbaneshwar	M.TECH in Power System Engineering
Prabhatanshu Phukan	B.TECH in EE	IIT, Bhbaneshwar	M.TECH in Power Electronics and Drives
Komitse Raphaele Khotle	B.TECH in EE	Konya Technical University, Türkiye	Masters in Electrical Engg

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

About the Department

Established in 1997, the Department of Electronics and Communication Engineering is one of the oldest departments in the University with the Department started with an M.Tech. Programme in Electronics Design and Technology in 1997, and subsequently introduced another M.Tech. Programme in Bioelectronics under the “Teaching and Research in Interdisciplinary and Emerging Areas” scheme of the University Grants Commission. The Department expanded its academic activities to undergraduate programmes, first with a B.Tech. Programme in Electronics and Communication Engineering in 2006, followed by another B.Tech. Programme in Electrical Engineering in 2014 (currently under the department of Electrical Engineering since October 2016). The Department also implemented a three- year diploma programme in Advanced Diploma in Healthcare Informatics and Management under the career-oriented scheme of the University Grants Commission (2012-2017). In addition, the department offers Ph.D. programmes in different areas, including Signal and Image Processing, Vehicular Electronics, Bioelectronics, Biosensors, Microwave Engineering, Neuro-bio engineering, and Communication Engineering and Microelectronics. The Department is supported by DST-FIST, DeitY – MIT, UGC-SAP (DRS-I), AICTE, RPS, AICTE NEQIP, and Visvesvaraya Ph.D. Scheme under Meity, GoI. Faculties of the department have several international research collaborations, including Queen’s University Belfast (QUB), UK; University Technology Malaysia, Malaysia; Airlangga University, Indonesia, and University of Rio de Janeiro, Brazil.

Academic Programmes and Student Intake

Academic Programme	Student Intake
<i>M.Tech. in Electronics Design and Technology</i>	35
<i>M.Tech. in Bioelectronics</i>	19
<i>B.Tech. in Electronics and Communication Engineering</i>	65
<i>Ph.D. in Electronics and Communication Engineering</i>	Variable (admitted 17 in 2023-2024)

Thrust Research Areas of the Department

- Microwave, Communication Engineering, Semiconductor Devices.
- Biosensors, Bioelectronics, Neuroengineering intelligent Instrumentation, Image and Signal Processing.
- Vehicular Electronics, Power Electronics, Robotics

Major Facilities/Equipment available

Experimental:

- Optical Lithography unit (Suss Microtech)

- Thin film deposition unit
- Mili-Q water system
- Probe Station
- Reactive Ion etching unit (Hind Hivac)
- Plasma Enhanced CVD (Hind Hivac)
- Vacuum coating unit (E-Beam and thermal)
- Physical vapor deposition unit
- Spin coater (Suss Microtech)
- Spectrum analyzer
- Optical Microscope
- Thin film thickness measurement unit (F20 Sinsil International)
- Multichannel Bio-signal acquisition unit
- Quantum Efficiency and IV measurement set up (Under procurement process)
- FPGA board
- Potentiostat-Galvanostat
- Probe Sonicator
- Centrifuge machine

Computational:

- Cadence UG/PG bundle
- Synopsys TCAD
- Mentor Graphics
- Xilinx

Faculty Members

Designation	Name	Highest Qualification (Institute)	Specialization	<email>@tezu.ernet.in	Date of holding the current position
	Partha Pratim Sahu	PhD (Jadavpur University)	Optical Network, Clinical Instrumentation, Micro-fabrication, Quantum Technology	pps	30-11-2008
	Jiten Ch. Dutta	PhD (Jadavpur University)	Biosensors and Bioelectronics, Neurobioengineering	jitend	01-01-2009
	Satyajib Bhattacharya	PhD (University of Delhi)	Microwave Antennas, Absorbers and Materials	sb	18-11-2011

<i>Professor</i>	Santanu Sharma	PhD (Tezpur University)	Semiconductor Devices, Bioelectronic Devices, Vehicular Electronics, Power Electronics	sss	22-01-2014
	Soumik Roy	PhD (Tezpur University)	Neuroengineering, Healthcare system, Hydroponics, Digital System Design, Intelligent Instrumentation	xoumik	05-01-2015
	Bhabesh Deka	PhD (IIT Guwahati)	Image Processing, Computer Vision, and Biomedical Signal/Image Analysis using Machine/Deep Learning	bdeka	05-01-2015
	Vijay Kumar Nath	PhD (IIT Guwahati)	Image Processing, Machine Learning, Computer Vision, Pattern recognition, Deep Learning	vk Nath	01-09-2015
	Nayan Moni Kakoty	Ph.D. (Tezpur University)	Robotics, Biomedical Signal Processing	nkakoty	18-02-2018
	Deepika Hazarika	Ph.D (Tezpur University)	Image and Video Processing	deepika	17-02-2015
	Ratul Kumar Baruah	Ph.D. (IIT Guwahati)	Nanoelectronics, Biosensors, Flexible Electronics	ratulkr	17-02-2020
	Biplob Mondal	Ph.D (Jadavpur University)	VLSI and MEMS Devices	biplobm	18-02-2019
	Riku Chutia	Ph.D. (Tezpur University)	E-nose, Instrumentation and Signal Processing, Embedded System	riku	20-02-2016
	Durlav Sonowal	Ph.D. (Tezpur University)	Sensors, Signal Processing	dsn	14-10-2009

<i>nt Profess or</i>	Ananya Bonjyotsna	Ph.D. (Tezpur University)	Audio Processing	ananyab	01-09-2012
	Priyanka Kakoty	Ph.D (Tezpur University)	Sensor and Nanotechnology	priyankak	14-09-2017
	Rupam Goswami	Ph.D (NIT Silchar)	Micro/Nano-electronics and VLSI, Bio/Memristive Sensors, Charcoal Electronics	rupam21	26-02-2020
	Rewre wa Narzary	Ph.D (Tezpur University)	Heterojunction Photovoltaic, Semiconductor Material Processing/ Characterization	rewa325	10-10-2023
	Kasturi Gogoi	Ph.D (IIT Guwahati)	Nanoelectronics	kasturi	01/03/2024
	Angshumala Talukdar	Ph.D (CIT Kokrajhar)	Semiconductor Devices	angshumala	01/03/2024

Officers and Staff Members

Designation	Name	<email>@tezu.ernet.in	Date of holding the current position
<i>Technical Officer</i>	Anukul Baishya	anukul	01-04-1997
	Jiten C. Boro	j_boro	20-08-2007
	Khagen Gogoi	khageng	27-07-2018
<i>Technician</i>	Satya Prasad Saikia	satyap	10-01-2007
	Rupak Sharma	rupak	22-09-2010
	Navanit Kumar Roy	navanit	09-10-2015
<i>Machine Operator</i>	Bipul Das	bipulda	06-03-2017
<i>Assistant</i>	Naba Jyoti Deka	naba	02-01-2018
<i>MTS</i>	Dharani Dhar Bania	baniad2	01-03-1998

Research Projects (both Ongoing and New)

Project Title	Funding Agency	Amount (in INR)	Duration	Investigator(s)
Sensor array on flexible substrate for monitoring BTEX VOCs and hydrocarbons particularly present in oil and natural gas industrial environment	Science and Engineering Research Board, DST, Govt. of India	23.82 Lakh	3 yrs	Dr. Biplob Mondal
Facility for simulation and characterization of advanced electronic devices and circuits	DST	172 Lakh	5yrs	Dr. Biplob Mondal

Development of Quantum optical sensor based system to identify and categorized arsenic and lead in water even with very low concentration (ongoing)	MeitY	238.99 lakh	3.5 yrs	Prof. P P Sahu Ms. Munmun Chakroborty (CDAC Kolkata)
Development of a low-cost AI-enabled cardiovascular disease detection device for rapid onsite assessment	ICMR	39.14 lakh	3 Yrs	Dr. Soumik Roy
Development of A Cost-Effective EMG Controlled Prosthetic Hand for Multiple Patterns	I-Hub Foundation for COBOTICS, Technology Innovation Hub of IIT Delhi set up by DST, Govt. of India	43.44 Lakhs	3 yrs	Prof. Nayan M. Kakoty
A behavioral model of Ion Sensitive Field Effect Transistor (ISFET) with spatial dependence on reference electrode and development of a hardware system for model validation.	ASTEC	4.7 Lakhs	2 yrs	Prof. Santanu Sharma
India - Assam - Sustainable Rural Community Development	The Institute of Electrical and Electronics Engineers, Incorporated ("IEEE")	59470 USD	18 Months	Dr. Rupam Goswami (Co-PI) Dr. Bhabesh Deka (Co-PI)
Exploring Knowledge on Medieval Assam: Multidisciplinary IKS Centre at Tezpur University	Indian Traditional Knowledge Systems, Division of Ministry of Education (MoE)	30.84 Lakhs INR	2 Years	Dr. Rupam Goswami (PI), Dr. Priyanka Kakoty (Co-PI) Dr. Bhabesh Deka (Co-PI)

Publications by Faculty and Staff Members

Publication of Articles in UGC-CARE Listed Group I/Group II Journals

- Narzary, R.; Brahma, H.; Das S.; Chetia, R. and Sahu, P.P.; Synthesis, characterization and estimation of performance parameters of binary ZnO–SnO₂/p-Si heterojunction solar cells, *Optical Materials*, 154, 115599, 2024.

- Sahu, P.P.; Sarma, G.; Das, S. and Borkakoty B.; Rapid diagnosis of COVID-19 using disposal paper capacitive sensor, *Analytica Chimica Acta*, 1273, 341500, 2023.
- Narzary, R.; Chetia, R. and Sahu P.P.; A low-temperature efficient approach for the fabrication of ZnO-rGO heterostructures for applications in optoelectronic applications, *IEEE Access* 11, 80716 – 80725, 2023.
- Phukan, P.; Narzary, R. and Sahu; PP.; Improved responsivity and detectivity photodetector based on ZnO-rGO nanocomposite nanostructures, *Journal of Materials Science: Materials in Electronics* 34 (28), 1965, 2023.
- Chetia, R. and Sahu, P.P.; Quantum image edge extraction algorithm for noisy image. *IETE Journal of Research*, pp.1-16, 2023.
- Chetia, R. and Sahu, P.P.; Quantum edge extraction of chest CT image for the detection and differentiation of infected region of COVID-19 patient. *Arabian Journal for Science and Engineering*, 48(8), pp.11155-11166, 2023.
- Sahu, P.P.; Optical manipulation of quantum optic entanglement using graphene clad surface plasmonic polariton device. *Quantum Information Processing*, 22(6), p.248, 2023.
- Saikia, A. and Sharma, S.; Design and simulation of a building-based off-grid photovoltaic microgrid using PVsyst: A case study. *International Journal of Electrical and Computer Engineering Systems*, 15, 113-120, 2024.
- Das, PS.; Deb, D.; Goswami, R.; Sharma, S. and Saha, R.; Fin core dimensionality and corner effect in dual core gate-all-around FinFET, *Microelectronics Journal* 143, 105985, 2024.
- Dutta, JC. and Saikia, O.; Fabrication and Characterization of an electrochemical biosensor based on DMSO treated PEDOT: PSS-MWCNT-Chitosan nanocomposite modified ITO electrode for Sarcosine detection, *IEEE Sensors Journal*, 24,15,23480 – 23489, 2024
- Hazarika, K.; Dutta, JC.; Thakur, HR.; Clinical Analysis and Detection of Creatinine by Conventional Methods and Electrochemical Biosensors: A Review *IEEE Sensors Journal*, 24,16-27, 2023.
- Deka, B.; and Chakraborty, D.; UAV Sensing-based Litchi Segmentation using Modified Mask-RCNN for Precision Agriculture, *IEEE Transactions on AgriFood Electronics*, 1 – 9, 2771-9529, 2024.
- Sharma, R.; Deka, B.; Fusco, V. and Yurduseven, O. Integrated convolutional neural networks for joint super-resolution and classification of radar images, *Pattern Recognition, Elsevier*, 150, 110351, 2024.
- Barman, T. and Deka, B. A Deep Learning-based Joint Image Super-resolution and Deblurring Framework, *IEEE Transactions on Artificial Intelligence*, 5, 3160-3173, 2024.
- Deka, B. and Deka, D. Nonlinear analysis of heart rate variability signals in meditative state: a review and perspective, *BioMedical Engineering OnLine*, 22 (35), 2023.
- Deka, D. and Deka, D.; Detection of Meditation-Induced HRV Dynamics using Averaging Technique-based Oversampled Feature set and machine learning

- classifiers , *IEEE Access*, 2023.
- Barman, T.; Deka, B. and Mullah, H.U.; Edge Preserving Single Remote Sensing Image Super-resolution using Sparse Representations, *SN Computer Science, Springer*, 2023.
 - Deka, B.; Mullah, H.L.; Barman, T. and Datta, S.; Joint Sparse Representation-based Single Image Super-Resolution for Remote Sensing Applications, *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, 2023.
 - Borah, B B.; Hazarika, U.; Baruah, SMB. Roy, S. and Jamir, A.; A BCI framework for smart home automation using EEG signal. *Intelligent Decision Technologies, IOS Press*, vol. 17, no. 2, pp. 485-503, 2023.
 - Olikkal, P.; Pei, D.; Karri, BK.; Satyanarayana, A.; Kakoty, NM. and Vinjamuri, R.; Biomimetic learning of hand gestures in a humanoid robot, *Frontiers in Human Neuroscience* 18, 1391531, 2024.
 - Boruah, A.; Kakoty, NM.; Michael, GR.; Ali, T. and Bhattacharyya, DK.; Enhancing visionless object recognition on grasp using ontology: the OntOGrasp framework, *Soft Computing* 28 (7), 6129-6151, 2024.
 - Buragohain, A.; Kakoty, NM.; Zhuo, GY.; Ahmed, GA.; Kao, FJ. and Mazumder, N.; Facile construction of a laser scanning optical beam induced current microscope, *IEEE Photonics Journal*, 1-6, 2024.
 - Khera, P.; Das, T.; Kakoty, NM. and Kumar, N.; AI-enabled Hybrid Model for Lower-Limb Movements Recognition using Estimated Muscular Activity from Cortical Brain Signals, *IETE Journal of Research*, 1-10, 2023.
 - Mahanta, D.; Hazarika, D. and Nath V.K.; Local Bit-Plane Domain 3D Oriented Arbitrary and Circular Shaped Scanning Patterns for BioMedical Image Retrieval, *Journal of Image and Graphics(United Kingdom)*, 11, 212-226, 2023.
 - Mahanta, D.; Hazarika, D. and Nath V.K.; Automated Diagnosis of COVID-19 Using Synthetic Chest X-Ray Images from Generative Adversarial Networks and Blend of Inception-v3 and Vgg-19 Features, *Computer Science*, 4, 2023.
 - Kumar, S.; Nath, V.K. and Hazarika, D; Blend of Deep Features and Binary Tree Growth Algorithm for Skin Lesion Classification, *Symmetry*, 15(12), 2213, 2023.
 - Bhattacharjee, A.; Baruah, R.K.; Honeycomb-Inspired Interconnects for Large-Area Flexible Circuits: Simulation and Modeling, *IEEE Transactions on Electron Devices*, 71, 3271, 2024.
 - Baruah, R.K.; Mahajan, B.K. and Routh S.; A Scalable Enhancement-Mode Junctionless SiC FET with Embedded P+ Pockets in the Oxide Layer for High-Temperature Applications, *Journal of Electronic Materials*, 52, 1507-1517, 2023.
 - Baruah, R.K.; Yoo, H. and Lee, E.K.; Interconnection Technologies for Flexible Electronics: Materials, Fabrications and Applications, *Micromachines*, 14, 2023.
 - Routh, S. and Baruah, R.K.; A comprehensive analysis of LDMOS transistors for analog applications under γ -radiation, *Microelectronics Reliability*, 148, 2023.
 - Roy, A.; Sharma, S. and Mondal, B. Effect of n-type Cl doping on electrical conductivity of few layer WS₂, *Microsystem Technologies*, 1-11, 2024.

- Kalita, P.; Sutradhar, MK. and Mondal, B.; Hybrid MoSe/WSe Nanomaterials: Enhancing Humidity Tolerant Gas Response, *IEEE Sensors Letters* 7 (11), 1-4, 2023.
- Kashyap, R.; Baruah, U.R.; Gogoi, A.; and Mondal, B.; Sensitivity-Enhanced Surface Plasmon Resonance Sensor Based on Zinc Oxide and BlueP-MoS₂ Heterostructure, *Plasmonics*, 18, 1679–1693 (2023).
- Kashyap, R.; Boro, P.R.; Yasmin, R.; Nath, J.; Sonowal, D.; Doley, R.; and Mondal, B.; Multiple protein patterned surface plasmon resonance biochip for the detection of Human Immunoglobulin-G, *Journal of Biophotonics*, 16, 5, e202200263, 2023.
- Roy, A.; Kalita, P. and Mondal, B.; Structural, spectroscopic and electrical properties of liquid phase exfoliated few layered two-dimensional tungsten disulphide (WS₂) using anionic surfactant, *Journal of Materials Science: Materials in Electronics*, 34, 224 (2023).
- Sonowal, D. Saharia, T. Baruah, RK. Goswami, R. Streamflow forecast model using ANN, *Journal of Applied Water Engineering and Research*, 1-11, 2024.
- Das, K. and Kakoty, P.; AuNP modified hetero-nanocomposite based chemicapacitive sensor for detection of ascorbic acid, *Materials Science and Engineering: B* 307, 117529, 2024.
- Sithikraja, R.; Das, K. and Kakoty, P.; Nano-structured gas sensing materials for ammonia detection with special emphasis on medical applications, *Indian Journal of Engineering and Materials Sciences (IJEMS)* 31 (2), 167-181, 2024.
- Chetry, D.; Basumatary, P.; Das, K. and Kakoty, P.; ZnO nanorod and rGO based nanocomposite decorated with Au nanoparticles for enhanced UV photodetection, *Journal of the Optical Society of America B*, 40 (12), 3096-31031, 2023.
- Das, K.; Kakoty, P.; Khan, A.; Phanjom, P.; Das, M.; Khakhlar, A. and Baruah, S. Investigation of bacterial pigment from *Serratia nematodiphila* as a sensitizer for a nanostructured solar cell, *Indian Journal of Chemical Technology*, 30(5), 2023.
- Gupta, A.; Sharma, S. and Goswami, R.; Review-Silicon Based ISFETs: Architecture, Fabrication Process, Sensing Membrane, and Spatial Variation, *ECS Journal of Solid State Science and Technology*, 13, 2024.
- Rai, S.; Sharma, R.; Saha, R.; Bhowmick, B. and Goswami, R.; Study on trap sensitivity for single material gate and double material gate nano-ribbon FETs, *Physica Scripta*, 2024.
- Das, PS.; Nath, D.; Deb, V.; Pathak, P.; Choudhury, H. and Goswami, R. Mobility effects due to doping, temperature and interface traps in gate-all-around FinFETs, *Microsystem Technologies*, 2024.
- Pathak, P.; Deb, D.; Nath, D.; Das, PS.; Choudhury, H. and Goswami, R.; Incomplete Ionization-Dependent Carrier Mobility in Silicon-on-Insulator n-p-n Double-Gate Tunnel Field-Effect Transistors, *Journal of Electronic Materials*, 53, 1142–1160, 2024.
- Saha, R.; Goswami, R. and Hoque, S.; Investigation on Effect of Interface Trap Charges and Temperature in Gate Overlap Graphene Source Step Shape Double Gate Tunnel FET, *ECS Journal of Solid State Science and Technology*, 12 (8),

083004, 2023.

- Saha, R.; Goswami, R.; Bhowmick, B. and Baishya, S.; Simulation study of n+ pocket step shape heterodielectric double gate tunnel FET for switching and biosensing applications, *Materials Science and Engineering: B* 293, 116491.

Publication of Book Chapters

- Das, S. and Sahu, P.P.; 2023. Green Synthesis of Cerium Oxide Nanoparticles and Its Recent Electrochemical Sensing Applications: A Study. *Handbook of Sustainable Materials: Modelling, Characterization, and Optimization*, pp.177-192, 2023.
- Choudhury, H.; Goswami, R.; Kumar, G. and Kakoty, NM.; Memristors as Prospective Devices for Silicon and Post-silicon Eras: theory, applications and perspectives, *Nanoelectronic Devices and Application*, 1, 297-334, 2024.
- Borah, B.B.; Baruah, S.M.B.; Kakati, D. and Roy, S.; Automating Remote Point-of-care ECG Diagnostics via Decentralized Report Routing Algorithm. *Computational Intelligence in Healthcare: Applications, Challenges, and Management*, 1st Edition, Chapter 6, Taylor & Francis, CRC Press, ISBN 9781003305347.
- Das, B.; Baruah, SMB. and Roy, S.; Modeling and Simulation of Successful Signal Transmission Without Information Loss in Axon, *Emerging Technology for Sustainable Development, Lecture Notes in Electrical Engineering*, Springer Nature Singapore Pte Ltd. 2024, ISBN978-981-99-4362-3.
- Borah, B.B.; Baruah, S.M.B.; Kakati, D.; and Roy, S.; An ECG Acquisition/Local Server Unit for Remote Patient Consultation, *Emerging Technology for Sustainable Development, Lecture Notes in Electrical Engineering*, Springer Nature Singapore Pte Ltd. 2024, ISBN978-981-99-4362-3.
- Baruah, R.K.; Das, S.K.; and Sarmah, N.; Advanced materials for smart devices, *Nanoelectronics: Physics, Materials and Devices*, 457-485, 2023.
- Baruah, U.R.; Nath, J.; Kashyap, R.; Sonowal, D. and Mondal, B.; CMOS Linear Image Sensor Based Data Acquisition System for Surface Plasmon Resonance Measurement, *Lecture Notes in Networks and Systems* 974, Springer 2024, edited by Dipak Kumar Koley, Shubhajit Roy Chowdhury, Subhadip Basu, Dariusz Plewczynski, Debotosh Bhattacharjee. *Proceedings of 4th International Conference on Frontiers in Computing and Systems COMSYS 2023*, Volume 1

Publication of Articles in Conference Proceedings

- Hazarika, DJ.; Thakur, HR.; Dutta, JC.; Synthesis and characterization of high- κ dielectric zirconium oxide for biosensor applications, *AIP Conference Proceedings* 2904, 110001, 2023.
- Chakraborty, S.; Boro, P. and Sharma, S.; Control Theory Approach to Passive Snubber Design for Motor Drivers, *Lecture Notes in Electrical Engineering*, 1117, 481-493, 2024.
- Chakraborty, S.; Boro, P. and Sharma, S.; Design of Regenerative Snubber Circuit

- for Motor Drivers *Lecture Notes in Electrical Engineering*, 1088, 2024, 309-320.
- Roy, A.; Sharma, S. and Mondal, B.; Schottky barrier height modulation of Metal-WS contact by molecular doping technique, *Proceedings of 5th International Conference on 2023 Devices for Integrated Circuit, DevIC 2023*, 359-363, 2023.
 - Chakraborty, S. and Sharma, S. Mathematical Modeling and Analysis of Energy Dissipation in Magnetorheological Dampers, *2023 International Conference on Computer, Electronics and Electrical Engineering and their Applications, IC2E3 2023*, 2023.
 - Boro, P.; Chakraborty, S. and Sharma S.; Mathematical Modelling and Analysis of Adaptive Traction Control for Electric Vehicles, *2023 International Conference on Computer, Electronics and Electrical Engineering and their Applications, IC2E3 2023*, 2023.
 - Saikia, A. and Sharma S.; A Reactive Power Controller for a Two-Stage Transformerless PV Grid System by Employing Virtual Inertia Control, *India International Conference on Power Electronics, IICPE*, 2023.
 - Saikia, A. and Sharma, S. A Floating Capacitor Cubic-Cell Boost Converter for Photovoltaic application, *2023 7th International Conference on Computer Applications in Electrical Engineering-Recent Advances: Sustainable Transportation Systems, CERA 2023*, 2023.
 - Goswami, R.; Kumar, V. and Parida, MK.; Design and Development of a Charcoal-Based Sensor for Enhanced Soil Analysis in Precision Agriculture, *International Conference on Machine Intelligence for Research & Innovations*, 73–83, 2024.
 - Baruah, UR.; Nath, J.; Kashyap, R.; Sonowal, D. and Mondal, B.; CMOS Linear Image Sensor Based Data Acquisition System for Surface Plasmon Resonance Measurement, *International Conference on Frontiers in Computing and Systems*, 615-626.
 - Kashyap, R.; Baruah, UR. and Mondal, B.; BaTiO₃ and Blue Phosphorus-MoS₂/WS₂ hybrid structure based Surface Plasmon Resonance sensor with improved sensing performance 2023, *16th International Conference on Sensing Technology (ICST)*, 1-5, 2023.
 - Kalita, P.; Khatun, A.; Mondal, B. First Principle based Studies for Efficient NO₂ Gas Sensors on MoSe₂ and WSe₂, *IEEE-GCON 2023*, IIT Guwahati, Guwahati, Assam.
 - Daimari, A.; Deori, A.C.; Pawe, A.R. and Baruah, R.K.; Design of 3 bit/cell NAND Memory Array Based on Ferroelectric Field Effect Transistor, Conference Paper Proceedings of the IEEE *International Conference on VLSI Design*, 125-128, 2024.
 - Bhattacharjee, A. and Baruah, R.K.; Mechanical and Electrical Performance of Stretchable Honeycomb Interconnect with Aspect Ratio Variation, *Conference Paper Proceedings of 5th International Conference on 2023 Devices for Integrated Circuit, DevIC 2023*, 325-329, 2023.
 - Bhattacharjee, A. and Baruah, R.K. Possibility of Using Fractal Web Based Interconnects in Smart Textiles in Terms of Mechanical and Electrical Performance, *Conference Paper IFETC 2023 - 5th IEEE International Flexible Electronics*

Technology Conference, Proceedings, 2023.

- Olikkal, P.; Pei, D.; Karri, BK.; Satyanarayana, A.; Kakoty, NM. and Vinjamuri, R.; Learning Hand Gestures using Synergies in a Humanoid Robot, *IEEE International Conference on Robotics and Biomimetics (ROBIO)*, 1-6, 1, 2023.
- Chakravarty, P.; Mehta, VK. and Kakoty, N M.; Design and analysis of compliant prosthetic finger using stage-flexure systems, *Proceedings of the 2023 6th International Conference on Advances in Robotics*, 2023.
- Chanu, MP.; Pei, D.; Olikkal, P.; Vinjamuri, RK. and Kakoty, NM.; Electroencephalogram based Control of Prosthetic Hand using Optimizable Support Vector Machine, *Proceedings of the 2023 6th International Conference on Advances in Robotics*, 2023.
- Kalita, AJ.; Chanu, MP.; Kakoty, NM.; Vinjamuri, RK. and Borah, S. Performance Characteristics of EMG Controlled Prosthetic Hand, *Proceedings of the 2023 6th International Conference on Advances in Robotics*, 2023.
- Borah, B.B.; Hazarika, U.; Doley, P.; Baruah, S.M.B. and Roy, S.; Automated identification of atrial fibrillation from a short single-lead electrocardiogram using the heart rate variability characteristics of the cardiac cycle, *International Conference on Intelligent and Smart Computation 2023 (ICIASC-2023)*. AIP Conf. Proc. 3072, 020011 (2024)
- Borah, B.B.; Hazarika, U. and Roy, S.; Brain Activity During Logical Thinking: A Single Lead EEG Approach. *3rd International Conference on Computing and Communication Networks*. ORGANISED BY: MANCHESTER METROPOLITAN UNIVERSITY, UNITED KINGDOM, Springer.
- Patar, D.; Nath, R.; Bhuyan, K.; Hazarika, R.B.; Basumatary, P. and Kakoty, P.; Glucose Detection System based on Green Synthesized ZnO nanomaterial, *CoDSS*, Feb. 2024.
- Basumatary, P.; Gogoi, S.; Bhattacharyya, H.; Gogoi, A. and Kakoty, P.; Green Synthesized ZnO Nanomaterial for Pesticide Detection, *CoDSS*, Feb. 2024.

Publication of Patents

Inventor(s)	Patent Title	Application/ Patent Number	Published /Granted	Country
Kumar, V.; Goswami, R.; Deb, D.; Sharma, S.	Bi-Concave Shaped Double Decker Match Box with Visible Window (Design Registration),	372595-001, 2023	Granted	INDIA
Partha Pratim Sahu, Geetarth Sarma, Upasana Puzari and Asis Mukherjee	Snake Venom Detection Kit Using Planer Paper Substrate Capacitance	202331086603	Published	INDIA
Partha Pratim Sahu, Subham Verma, Satyajit Das, Bidhisha Saha,	Black fungus detection kit based on inter-digital planer paper capacitance	202331007131	Published	INDIA

Sanjeev Karmakar and Pranobesh Chattopadhyay				
Mr. Bidyut Bikash Borah, Mr. Geetarth Sarma, Dr. Soumik Roy, Dr. Dhruva K Bhattacharyya, Dr. Bikash Rai Das	A Low-Cost Single Lead ECG Acquisition System Using Paper- Based Silver (Ag) Electrodes for the Diagnosis of Cardiovascular Disease	202431057140	Applied	INDIA
Nayan M. Kakoty and Lakhyajit Gohain	An EMG based Prosthetic Hand Controller for Real Time Grasping realizing Neuromuscular Constraint	524691	Granted	INDIA

Invited Talk

Name of Faculty Member	Title of theTalk	Title of the Event	Date	Organizer and Venue (Online/Offline)
B. Mondal	Strategies and challenges for improving performanc e of Chemiresist ive Gas Sensors	SERB sponsored National workshop on Frontiers in material Science: Challenges and Opportunities	7-8 March, 2024	Department of Chemical Sciences, Tezpur University
B. Mondal	Chemiresist ive Gas Sensor: Prospects and challenge	Condensed Matter Days CMDAYS 2023	22-24 January, 2024	Department of Physics, Tezpur University, during
Priyanka Kakoty	Nanotechno logy based sensor design	Amazing Nano 2023	26/9/2023	Assam Don Bosco University, Azara, Guwahati,
Dr Rupam Goswami	Noise Simulation of TFETs Using Sentaurus TCAD	One-Week FDP Emerging Trends and Developments in Simulation and Fabrication of Semiconductor Devices	02-08 May, 2024	School of Electronics Engineering (SENSE)

Dr Rupam Goswami	India's Techade-Chips for Viksit Bharat/ Semiconductor Chips	Historic occasion of laying foundation stone for 3 semiconductor plants in India	13 March, 2024	School of Engineering, Tezpur University
Dr Rupam Goswami	Unveiling the Impact of Incomplete Ionization in TFETs	Emerging Semiconductor Material, Device Technology, and Manufacturing	04-08 December, 2023	Department of Electronics and Communication Engineering, NIT Rourkela
Dr Rupam Goswami	Modeling and Simulation of Emerging Electronic Devices: case studies and prospects	ATAL Academy Sponsored One-Week Faculty Development Program	08 - 13 January, 2024	Department of Electronics and Communication Engineering, Assam Engineering College, Guwahati.

Awards/Honours/Notable Achievements

Name of Awardee	Designation of Awardee	Achievement	Event/Awarded by
Stanford University		Prof. P. P. Sahu is listed in world top 2% scientists	Listed by Stanford University

Other Significant Activities of the Department/Centre (e.g., outreach/extension activities, events organized, etc.)

- Online interdisciplinary two-week Refresher course on Curriculum and Pedagogy, Organized by Teaching Learning centre (TLC), Tezpur University during 7th-20th June, **2023**.
- Short Term Course on NEP Orientation & Sensitization under Malaviya Mission Teacher Training Programme (MM-TTP) of UGC organized by MMTTC, Tezpur University from 18th-30th April **2024**.

Number of Students Qualified in NET-JRF/SLET/GATE etc.

Name of Qualifying Examination	Number of Qualified Students	Academic Programme
GATE 2024	4	B.Tech.

Notable Placement of Students

Name of the student	Programme	Organisation name	Position	Mode of Selection
Prerona Roy Choudhury	B-Tech ECE	CDAC	Intern	On-Campus
Pranjal Kar	B-Tech ECE	CDAC	Intern	On-Campus
Prajwalita Hazarika	B-Tech ECE	Alstom	GET	On-Campus
Rohan Deep Goyal	B-Tech ECE	ITC Infotech Ltd	Software Engineer	On-Campus
Abhigyan Hazarika	B-Tech ECE	Bharat Electronics Limited	Deputy Engineer (E-II)	On-Campus
Alok Chaurasiya	B-Tech ECE	Bharat Electronics Limited	Deputy Engineer (E-II)	On-Campus
Md. Wasif Mustafa	B-Tech ECE	Bharat Electronics Limited	Deputy Engineer (E-II)	On-Campus
Arnab Gautam Saha	B-Tech ECE	Bharat Electronics Limited	Deputy Engineer (E-II)	On-Campus
Dishal Patar	B-Tech ECE	Bharat Electronics Limited	Deputy Engineer (E-II)	On-Campus
Tridip Lochan Dutta	B-Tech ECE	Bharat Electronics Limited	Deputy Engineer (E-II)	On-Campus
Abinash Bharadwaj	B-Tech ECE	Bharat Electronics Limited	Deputy Engineer (E-II)	On-Campus
Abhishek Kumar Rai	B-Tech ECE	ESAF	Executive Trainee	On-Campus
Sunny Kumar	B-Tech ECE	ESAF	Executive Trainee	On-Campus
Rohan Deep Goyal	B-Tech ECE	TCS	System Engineer	On-Campus
Bhogi Naveen	B-Tech ECE	Federal Bank	Associate in Non Officer	On-Campus
Anandan Mukherjee	B-Tech ECE	Federal Bank	Associate in Non Officer	On-Campus
Bipasha Dey	B-Tech ECE	Team.Effiently	Intern	On-Campus
Anandan Mukherjee	B-Tech ECE	TCS	System Engineer	On-Campus
Sujay Mohanty	B-Tech ECE	TCS	System Engineer	On-Campus
Abhishek Kumar Rai	B-Tech ECE	TCS	Assistant System Engineer Trainee	On-Campus
Sunny Kumar	B-Tech ECE	TCS	Assistant System Engineer Trainee	On-Campus
Abhishek Kumar Singh	B-Tech ECE	TCS	System Engineer	On-Campus
Prerona Roy Choudhury	B-Tech ECE	CDAC	Project Engineer	On-Campus
Pranjal Kar	B-Tech ECE	CDAC	Project Engineer	On-Campus
Himanjal Bhattacharyya	MTech ELDT	L&T TECHNOLOGY SERVICES Ltd	GET	On-Campus

Enrollment of Students in other Institutes for Higher Studies

Name of Student	Academic Programme (in TU)	Name of other Institute	Enrolled Academic Programme
Jitendra Kumar	M.Tech. in Bioelectronics	IIT Jodhpur	PhD
Sweta Priya	M.Tech in Bioelectronics	IIT Jodhpur	PhD
Himanjal Bhattacharya	M.Tech in ELDT	IIT	PhD
Rajesh Anant Ray	B.Tech in ECE	IIT Dhanbad	M.tech (Communication and signal processing)
Yash Gupta	B.Tech in ECE	IIT Roorkee	M.Tech inn VLSI

DEPARTMENT OF ENERGY

About the Department

The Department of Energy at the University is a thriving academic department with a 25-year history dedicated to educating professionals in the energy field. Its objectives include conducting research and extension activities in energy and developing new and efficient energy technologies. The Department offers a two-year (four semesters) AICTE-approved MTech program in Energy Technology and a PhD program in energy-related areas. In addition to teaching and research, the Department also organizes training programs, workshops, and seminars in relevant energy areas. The Department's faculty has completed several international collaborative research projects with various countries, including the UK, Brazil, South Africa, Sweden, Greece, Italy, and Hungary. Furthermore, the Department has four externally funded research projects and two consultancy projects. The Department's research publications are in reputable international journals, and the Department's h-index is 62.

Academic Programs and Student Intake

Academic Program	Student Intake
MTech in Energy Technology	35
PhD	Variable, 5 in 2023-24

Thrust Research Areas of the Department

- **Renewable Energy Resources:** Characterization and Sustainable Applications
- **Energy Conservation:** Advance Management Addressing Sustainability
- **New Energy Systems:** Advance Materials, Energy Storage and New Sources

Major Facilities/ Equipment available

- Gas Chromatograph
- Oxidation Stability Apparatus
- Automatic Bomb Calorimeter
- Gas Analyzer
- UVVIS (Spectrophotometer)
- Fuel Cell kit
- Computerized Diesel Engine Test Rig
- Micro Hydel Power Generating Equipment
- Dual Fuel Engine
- Closed top Gasifier
- Biodiesel pilot plant
- Grid Tied SPV training system
- Wind Energy Training System
- Solar Thermal Training System
- GIS Laboratory with hardware and software
- Biogas plant of capacity 50 m³

- Computation Laboratory
- Adapt NET E-Lab equipped with Server (2TB) and 18 Computers
- Continuous Pyrolysis system of Auger Type

Faculty Members

Designation	Name	Highest Qualification (Institute)	Specialization	email	Date of holding the current position
	Debendra Chandra Baruah	Ph.D. (PAU, Punjab)	Energy management, rural livelihood, waste to energy	baruahd	24-09-2009
	Dhanapati Deka	Ph.D. (Tezpur University)	Biofuel & Bioenergy Systems, Development of renewable catalyst	dhanapati	28-07-2011
	Rupam Katakati	Ph.D. (Tezpur University)	Biomass & Biofuel, Energy-Environment interaction	rupam	28-06-2015
	Sadhan Mahapatra	Ph.D. (IISc, Bangalore)	Biomass gasification, Climate responsive buildings, Energy conservation & Decentralized energy options	sadhan	24-09-2019
	Pradyumn Kumar Choudhury	Ph.D. (Tezpur University)	Solar Energy, Hybrid Energy System, Energy conservation, Instrumentation & control	pkc	29-07-2011
	Biraj Kumar Katakati	Ph.D. (IIT, Guwahati)	Fuel Cell & Hydrogen Technology, Electrochemical Energy Systems, Graphene, Energy Storage Devices	bkakati	22-09-2014

	Nabin Sarmah	Ph.D. (Heriot-Watt, Edinburgh)	Solar Energy, Photovoltaic, Energy Systems	nabin	22-09-2014
	Vikas Verma	Ph.D.(IIT, Roorkee)	Thermal Engineering,	vikas	12-04-2017

Officers and Staff Members

Designation	Name	email	Date of holding the current position
Technical Officer	Madhurjya Borah	madtech	03-03-2021
Technical Assistant	Tapanjit Borah	tapanji	06-05-2004
Laboratory Assistant	Troilokya Lahan	tlahon	05-08-2011
Upper Division Clerk	Polly Rajbonshi	poli227	06-08-2018
Multitasking Staff	Dinesh Bhuyan	dinesh	01-01-1995

Major Research and Development Findings

Faculty/Researcher	Salient Research Findings
Rupam Kataki	<ul style="list-style-type: none"> Rice straw biochar, incorporated into bitumen at a maximum concentration of 2%, has the potential to meet all necessary specifications and performance standards for road pavements. This approach holds significant promise for replacing fossil fuel-based products, reducing greenhouse gas emissions, sequestering carbon, and addressing waste management challenges. Microbes isolated from hydrocarbon contaminated soil when immobilized onto coconut waste derived biochar were found to be highly effective in bioremediation of petroleum hydrocarbon contaminated soil. This is significant as this approach offers multiple advantages of biochar mediates bioremediation, waste to wealth, and soil improvement.
Biraj Kumar Kakati	<ul style="list-style-type: none"> Photo electrochemical Hydrogen Production Fabrication of biomass derived hierarchically structured supercapacitor Power-to-gas: Solar energy harvesting Spatial Air Quality Monitoring System using UAV
Sadhan Mahapatra	<ul style="list-style-type: none"> Performance evaluation of a 1 MWp grid-connected rooftop solar power plant at Tezpur University and a 5 MWp grid-connected ground-mounted solar power plant at Tezpur. Evaluate the relative efficiencies and performance metrics of

	<p>the rooftop and ground-mounted solar installations.</p> <ul style="list-style-type: none"> • Understanding of Vernacular architecture of Arunachal Pradesh, interm of its unique design based on the local climate • Evaluate the traditional construction methods employed by indigenous tribes specifically addressing their approaches to energy optimization and preservation of comfort within varied climatic conditions.
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Research Projects (Ongoing and New)

Project Title	Funding Agency	Amount (In INR Lakh)	Duration	Investigator(s)
A Conservation approach for Structural Heritage of the Ahom Dynasty through the intervention of Science & Technology (CASHAD)	Indian Knowledge System, Ministry of Education	13.64	2023-25	Dr. Nabin Sarmah (PI) Prof. Rupam Kataki (Co-PI) Dr. Biraj K Kakati (Co-PI)
Development of Spatial Air Quality Monitoring System using Polymer Electrolyte Fuel Cell Powered Unmanned Aerial Vehicle	AICTE	17.6	2022-25	B. K. Kakati
Applied Research and development for industrial realization of lignin recycling and conversion to value-added international market product	DST (Indo-Hungary)	48.39	2021-24	D. Deka
Off-grid Solar Power Plant at Tezpur University	AICTE	20	2021-23	S. Mahapatra

Consultancy Projects (Both Ongoing and New)

Project Title	Funding Agency	Amount (In INR Lakh)	Duration	Investigator (s)
Water quality baseline survey and follow-up monitoring assessment of hydrological and biological status of streams in	Govt. of Manipur	58.98	2022-27	Rupam Kataki

upper watersheds for Water resource Conservation (COSFOM)				
Waste biomass characterization & valorization through production of biochar and its application as soil amendment and other uses	PT. Tanjungenim Lestari Pulp and Paper (PT. TEL), Indonesia	US\$ 15,552	2022-24	Rupam Kataki
Sustainable Rural Community Development	Power & Energy Society	\$59,470	18 months	D C Baruah

Publications by Faculty and Staff Members

Publication of Articles in UGC-CARE Listed Group I /Group II Journals

- Athparia M., Bora N., Deka A., Sohtun P., Padhi P., Bhuyan N., Bordoloi N. J., Gogoi L., Kataki R. (2023). Non-fuel applications of bio-oil for sustainability in management of bioresources, Environmental Science and Pollution Research. <https://doi.org/10.1007/s11356-023-31449-w> (in press)
- Baruah, D. (2024). Potential of Mikania micrantha for biogas production. Journal of Agricultural Engineering (India), 61(1), 123-132.
- Barua S., Sahu D., Sultana F., Baruah S., Mahapatra S. (2023). Bioethanol, Internal Combustion Engines and the Development of Zero-Waste Bio refinery: an Approach towards Sustainable Motor Spirit. RSC Sustainability, 1, 1065-1084.
- Bhuyan N., Bora N., Baruah K., Dev Choudhury N., Saikia N., Kataki R. (2024). Effect of Co and Ni impregnated ZSM-5 catalyst on pyrolysis products of Tithonia diversifolia: kinetic study and thermodynamics. Process Safety and Environmental Protection, 185: 807-816
- Borah D., Eldiehy K. S. H., Hatiboruah D., Mandal M., Deka D. (2023). An Integrated Approach for Simultaneous Monitoring and Data Acquisition on the Culture of Green Microalga Chlorella homosphaera Using Different LED Illumination. Bioenergy Research 16 (1), 601-610.
- Bora N., Daimary N., Athparia M., Loganathan M. K., Kataki R. (2024). Optimization of Biogenic Supplementary Cementitious Materials in Concrete prepared from East-Indian Lemon Grass (Cymbopogon flexuosus) and Poultry Litter using Response Surface Methodology. Energy, Ecology and Environment, 9: 382–403
- Borah P., Micheli L., Sarmah N. (2023). Analysis of Soiling Loss in Photovoltaic Modules: A Review of the Impact of Atmospheric Parameters, Soil Properties, and Mitigation Approaches Sustainability, 15 (24), 16669.
- Borgohain A., Choudhury P. K. (2023). Role of Portable Charger in Electric Vehicle. Advances in Science and Technology, 130, 121-128. 2023.

- Brahma, B., Shukla, A. K., & Baruah, D. C. (2024). Energy, exergy, economic and environmental analysis of phase change material based solar dryer (PCMSD). *Journal of Energy Storage*, 88, 111490.
- Brahma, B., Shukla, A.K., Baruah, D.C. (2023). Design and performance analysis of solar air heater with phase change materials. *Journal of Energy Storage*, 61, 106809.
- Das A., Li H., Kataki R., Agrawal P. S., Moyon N. S., Gurunathan B., Rokhum S. L. (2023). Terminalia arjuna bark – A highly efficient renewable heterogeneous base catalyst for biodiesel production. *Renewable Energy*, 212, 185-196.
- Das D., Saikia S., Saharia S. J., Mahapatra S. (2023). Performance analysis of MW-scale grid connected rooftop and ground-mounted solar power plants installed in Assam, India. *Energy for Sustainable Development* 76, 101309.
- Deka, T. J., Osman, A. I., Baruah, D. C., & Rooney, D. W. (2023). Assessment of bioenergy and syngas generation in India based on estimation of agricultural residues. *Energy Reports*, 9, 3771-3786.
- Deka A., Simha P., Nazarova L., Kataki R., Vinnerås B. (2023). Degradation of poly-L-lactic acid biopolymer films in Ca(OH)₂-dosed fresh human urine collected in source-separating sanitation systems. *Resources, Conservation & Recycling*, 198, 107202.
- Daimary N., Eldiehy K. S. H., Bora N., Boruah P., Rather M. A., Mandal M., Bora U., Deka D. (2023). Towards integrated sustainable biofuel and chemical production: An application of banana pseudostem ash in the production of biodiesel and recovery of lignin from bamboo leaves. *Chemosphere*, 314, 137625.
- Deka, Tanmay J., Osman, Ahmed I., Baruah, D.C., Rooney David W. (2023). Assessment of bioenergy and syngas generation in India based on estimation of agricultural residues. *Energy Reports* 9, 3771–3786.
- Eldiehy K. S. H., Daimary N., Borah D., Mandal M., Deka D. (2023). Biodiesel Production from Chlorella homosphaera by Two-Step Catalytic Conversion Using Waste Radish Leaves as a Source for Heterogeneous Catalyst. *Applied Biochemistry and Biotechnology*, 195, 4347–4367.
- Sarmah, T., & Baruah, D. C. (2024). A field-based study demonstrating the need of holistic management system for household biogas plants in rural India. *Natural Resources Forum*, 48(2), 594-615.
- Sarmah S., Kakati B. K., Kucernak A. R. J., Deka D. (2024). Fabrication of hierarchically structured supercapacitor using N and S co-doped activated carbons derived from Samanea saman biomass. *Energy Storage*, 6(2), e616.
- Sarmah S., Lakhanlal., Kakati B. K., Deka D. (2023). Recent advancement in rechargeable battery technologies”, *WIREs Energy and Environment* 2023, 12 (2), e461.
- Terang, B., & Baruah, D. C. (2023). Techno-economic and environmental assessment of solar photovoltaic, diesel, and electric water pumps for irrigation in Assam, India. *Energy Policy*, 183, 113807.
- Shah S. R., Mazumdar N. J., Centeno-Pedraza A., Deka D., Artioli N., Manyr H.

- (2023). Recent Advances in Catalyst Design for Carboxylation using CO₂ as the C1 Feedstock. *Catalysts*, 13, 1489.
- Hiloidhari, M., Sharno, M. A., Baruah, D.C., Bezbaruah, Achintya N. (2023). Green and sustainable biomass supply chain for environmental, social and economic benefits. *Biomass and Bioenergy* 175, 106893.
 - Patowary, R., Baruah, D. C. (2023). Feasibility study of TEG-integrated biomass cook stove for electrical power generation specific to rural areas with inadequate electricity. *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects*, 45(2), 5714-5735.
 - Mukherjee C., Suryawanshi P. G., Kalita M. C., Deka D., Aranda D. A. G., Goud V. V.(2024). Polarity-wise successive solvent extraction of *Scenedesmus obliquus* biomass and characterization of the crude extracts for broad-spectrum antibacterial activity. *Biomass Conversion and Biorefinery*, 14 (2), 2467-2483.
 - Padhi P., Bora N., Sohtun P., Athparia M., Kumar M., Kataki R., Sarangi P. K. (2024). Remediation of mine overburden and contaminated water with activated biochar derived from low-value biowaste. *Journal of the Taiwan Institute of Chemical Engineers*, 159: 105472
 - Narzari R., Poddar M. K., Bordoloi N., Sarmah A. K., Kataki R. (2024). A comprehensive study to understand removal efficiency for Cr⁶⁺ using magnetic and activated biochar through Response Surface Methodology. *Biomass Conversion and Biorefinery*, 14: 5973–5987
 - Nadarajah P. D., Singh M. K., Mahapatra S., Pajek L., Košir.M. (2024). Bioclimatic classification for building energy efficiency using hierarchical clustering: A case study for Sri Lanka. *Journal of Building Engineering*, 83, 108388.
 - Seth D., Athparia M., Singh A., Rathore D., Venkatramanan V., Channashettar V., Prasad S., Maddirala S., Sevda S., Kataki R. (2023). Sustainable environmental practices of tea waste – A comprehensive review, *Environmental Science and Pollution Research*,
<https://doi.org/10.1007/s11356-023-30848-3> (in press)
 - Sahari B. J., Sarmah N. (2023). A comparative assessment of popular tracking algorithms used in standalone photovoltaic systems. *International Journal of Power Electronics and Drive Systems*, 14(3), 1834- 1843.
 - Reddy P.N., Verma V., Kumar A., Awasthi M. K. (2023). CFD Simulation and Thermal Performance Optimization of Channel Flow with Multiple Baffles. *Journal of Heat and Mass Transfer Research*, 10, 257- 268.
 - Pachori H., Choudhary T., Sheorey T., Shukla A.K., Verma V. (2024). A novel energy, exergy and sustainability analysis of a decentralized solar air heater integrated with V-shaped artificial roughness for solar thermal application. *Sustainable Energy Technologies and Assessments*, 66,103816.
 - Kumar M., Singh V.K., Ravi R., Verma V., Arora A., Alam T., Yadav A.S., Sharma A. (2024). Biodiesel production from microalgae oils:A critical review. *Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering*. 1 – 15.

- Verma V., Meena C. S., Thangavel S., Kumar A., Choudhary T., Dwivedi G. (2023). Ground and solar assisted heat pump systems for space heating and cooling applications in the northern region of India – A study on energy and CO₂ saving potential. *Sustainable Energy Technologies and Assessments*, 59:103405.
- Vikár A., Lónyi F., Makoye A., Nagy T., Novodárszki G., Barthos R., Szabó B., Valyon J., Mihályi M. R., Deka D., Solt H. F. (2023). Ethanol Coupling Reactions over MgO–Al₂O₃ Mixed Oxide-Based Catalysts for Producing Biofuel Additives. *Molecules*, 28, 3788.
- Zimik M., Sarmah S., Kakati B. K., Deka D., Thangavel R. (2024). Pyrolytic conversion of *Mesua ferrea* to nitrogen-doped porous carbon for supercapacitor applications, *Materials Research Bulletin* 2024, 113017.

Publication of Books

- Verma, V., Thangavel, S., Dutt, N., Kumar, A., Weerasinghe, R. (2024). *Highly Efficient Thermal Renewable Energy Systems Design, Optimization and Applications*. CRC Press, ISBN: 9781003472629.

Publication of Book Chapters

- Borthakur P., Lahon N. K., Kakati B. K., Verma V., (2023). Multiphysics Simulation of a Polymer Electrolyte Fuel Cell (PEFC) to Study its Polarization Characteristics under Different Oxygen Concentrations”, in *Lecture Notes in Mechanical Engineering*, ISBN: 978-981-19-2187-2 & 978-981-19-2188-9, 2023, Springer.
- Sarma R., Kakati B. K. Modern challenges and future perspective of Microbial Fuel Cells, in A Ahmad, MNM Ibrahim, AA Yaqoob, SHM Setapar, (Eds.) *Microbial Fuel Cells for Environmental Remediation*, ISBN: 978-981-19-2680-8, 2023, Springer.
- Sarma R., Borthakur P., Kakati B. K. Microbial Fuel Cells in KP Shadangi, PK Sarangi, K Mohanty, I Deniz, ARK Gollakota, (Eds.) *Bioenergy Engineering: Fundamentals, Methods, Modelling, and Applications*, ISBN: 9780323983631, 2023, Elsevier.
- Katakai, S., Wangpan, T., Tangiang, S., Baruah, D. C., Dwivedi, S. K., Kamboj, D. V., ... & Chatterjee, S. (2023). Abundance, variety, and scope of value-added utilization of agricultural crop residue: emphasizing potential of anaerobic digestion and digestate recycling. In *Sustainable agriculture and the environment*. Academic Press
- Gayan A, Borah P, Nath D, Katakai R. Soil microbial diversity, soil health and agricultural sustainability. In: *Sustainable Agriculture and the Environment* (Eds. Farooq M, Gogoi N, Pisante M.), , 2023, ISBN: 978-0-323-90500-8, Academic Press.
- Verma, V., Thangavel, S., Dutt, N., Kumar, A., Weerasinghe, R. Introduction to thermal energy storage: solar, geothermal and hydrogen energy. *Highly Efficient Thermal Renewable Energy Systems Design, Optimization and Applications*, ISBN: 9781003472629, CRC Press.
- Ahmadizadeh, M., Heidari, M., Thangavel, S., Naamani, E.A., Khashehchi, M.,

- Verma, V., Kumar, A. (2024). Technological advancements in sustainable and renewable solar energy systems. *Highly Efficient Thermal Renewable Energy Systems Design, Optimization and Applications*. ISBN: 9781003472629. CRC Press.
- Chitt, M., Thangavel, S., Verma, V., Kumar, A. Green hydrogen productions: methods, designs and smart applications. *Highly Efficient Thermal Renewable Energy Systems Design, Optimization and Applications*. ISBN: 9781003472629. CRC Press.
 - Khashehchi, M., Thangavel, S., Rahmanivahid, P., Heidari, M., Moazzeni, T., Verma, V., Kumar, A. Solar desalination techniques: challenges and opportunities. *Highly Efficient Thermal Renewable Energy Systems Design, Optimization and Applications*. ISBN: 9781003472629. CRC Press.

Publication of Articles in Conference Proceedings

- Kataki, R. (2023). *Biochar for a Biobased Economy, In the Compendium of lecture notes under NAHEP Sponsored One Week Hands-on Training Programme on, Use of Biochar in Agriculture, organized by Biswanath College of Agriculture, Assam Agricultural University, Biswanath Chariali, July 17-22, 2023, pp. 41-51.*
- Borah D, Eldiehy KSH and Deka D. (2023). Optoelectronic sensitivity-based investigation on LED inspired microalgae cultivation. In the proceedings of Advances in Algal research of the International Symposium held at IIT Guwahati during June 12-14, 2023 jointly hosted by IIT Guwahati, CSIR-IICT, Hyderabad, GBPUAT, Pantnagar and DTU Copenhagen.
- Diliban N. P., Singh M. K., **Mahapatra S.** Improving Sri Lankan buildings' energy efficiency through bioclimatic classification and potential assessment. 11th International Conference on Indoor Air Quality, Ventilation & Energy Conservation in Buildings (IAQVEC2023), 20-23 May 2023, Tokyo, Japan

Conference/ Workshop/ Symposium/ Seminar etc. attended

Name of Faculty/ Staff Member	Purpose of Attending	Title of Event	Date/Period	Organizer and Venue
Prof D C Baruah	Coordinator	National Conference on DHARA: Bharatiya Paramparik Krishi Mela	4-06-2023 to 06-06-2023	Tezpur University, Assam
Prof D C Baruah	Member of Academic Review committee	Academic ordinance Review Committee	29-09-2023	NIT, Meghalaya
Prof D C Baruah	Conference	National Symposium on Emerging Trends in Multidisciplinary Research	18-03-2024	Centre for Multidisciplinary Research, Tezpur University
Prof. D Deka	Visiting Scientist	Indo- Hungarian Collaborative Research Project-II "Applied	28-01-2024 to 04/02/2024	Institute of Materials and Environmental Chemistry, Research

		Research and development for industrial realization of lignin recycling and conversion to value-added international market products”		Centre for Natural Sciences, Budapest, Hungary
Prof. Rupam Kataki	Paper presentation	National Seminar on Fostering the future of Energy & Environment in pulp and paper industry	February 22-24, 2024	Indian Pulp & Paper Technical Association, Kolkata, India
Prof. Rupam Kataki	Paper presentation	76 th Annual Session of Indian Institute of Chemical Engineers (IChE – CHEMCON 2023) & International Conference on, Energy Transition: Challenges and Opportunities	December 27-30, 2023	Indian Institute of Chemical Engineers (IChE), Kolkata, India
Prof. Rupam Kataki	Paper presentation	76 th Annual Session of Indian Institute of Chemical Engineers (IChE – CHEMCON 2023) & International Conference on, Energy Transition: Challenges and Opportunities	December 27-30, 2023	Indian Institute of Chemical Engineers (IChE), Kolkata, India
Prof. Rupam Kataki	Paper presentation	76 th Annual Session of Indian Institute of Chemical Engineers (IChE – CHEMCON 2023) & International Conference on, Energy Transition: Challenges and Opportunities	December 27-30, 2023	Indian Institute of Chemical Engineers (IChE), Kolkata, India
Prof. Rupam Kataki	Paper presentation	6th IWA International Conference on eco-Technologies for Wastewater Treatment (ecoSTP23)	June 26-29, 2023	International Water Organisation, Girona, Spain
Madhurjya Borah	Webinar	Awareness of Energy Conservation Building Code (ECBC) & Eco Niwas Samhita (ENS)	21-08-2023	Assam State Designated Agency with support of BEE, GoI, Guwahati
Madhurjya Borah	Training Session	GeM training session for Central Universities	12-05-2023	Tezpur University

Invited Talk

Name of Faculty Member	Title of theTalk	Title of theEvent	Date	Organizer and Venue
Prof. D. C. Baruah	Energy Conservation scenarios in some sectors of Economic importance: An analysis with special reference to policy and perspective in Assam	National Energy conservation Day 2023	14-12-2023	The Institute of Engineers, Guwahati, Assam
Prof. D. C. Baruah	Indigenous Technologies for Viksit Bharat	National Science Day Celebration	28-02-2024	Darrang College, Assam
Prof. D. C. Baruah	Biogas	Biogas: Seminar	08-11-2023	Swedish University of Agricultural Science, Sweden
Prof. Rupam Kataki	Waste bioresources for circular economy	Refresher Course	19-01-2024.	University of Jammu
Prof. Rupam Kataki	Valorization of biowastes for biochar production and utilization for circular bioeconomy	International Conference on Emerging Trends and Innovations in Biotechnology (BIOSPECTRUM-2023)	30/11/2023 - 02/12/2023	School of Biosciences, Mar Athanasios College for Advanced Studies Tiruvalla (MACFAST), Tiruvalla, Kerala
Prof. Rupam Kataki	Agricultural waste management as a strategy for circular bioeconomy	International Conference on New Horizons in Biotechnology (NHBT-2023)	November 26-29, 2023	CSIR-NIIST, Trivandrum, and BRSI at Trivandrum, Kerala
Prof. Rupam Kataki	Biochar for industrial applications	National Seminar on Biochar - Greening of Steel through agro-based products	September 15-16, 2023	Technology Knowledge Society (TKS) –Ranchi, in association with R&D Centre for Iron

				& Steel (RDCIS), Steel Authority of India Limited (SAIL) and ICAR-Indian Institute of Agricultural Biotechnology (IIAB)
Prof. Rupam Kataki	Biobased resource for sustainable energy generation	International Summit on Renewable Energy 2023 (INSORE2023)	July 22-24, 2023	North East Renewable Energy Research Lab & University of Zagreb, Croatia at Guwahati, Assam
Prof. Rupam Kataki	Biochar for a biobased economy	National Agricultural Higher Education Project sponsored 1-week Hands-on training programme on Use of Biochar in Agriculture	July 17-22, 2023	Biswanath College of Agriculture, AAU
Dr. Nabin Sarmah	Material & Structural of Ahom Maidams at Charaideo: A Technological Study	National Seminar on Comprehensive Conservation of Maidams-the Mound-Burial System of the Ahom Dynasty at Charaideo in Assam	26-02-2024	Directorate of Archeology Indigenous & Tribal Faith & Culture Department, Govt. of Assam, Ambari, Guwahati
Prof S Mahapatra	Single particle combustion study of biomass/coal and petroleum coke fuel mixtures	4th International Conference on Recent Advances in Bio-Energy Research (ICRABR 2023)	11th October 2023.	Sardar Swaran Singh National Institute of Bio-Energy (SSS-NIBE), Kapurthala
Prof S Mahapatra	Solar Cell, Module and PV Systems	Capacity Building Program on Solar PV Power Plant (O	29th May 2023	NPTI-NER, Guwahati

		& M, Design, DPR Preparation & Tariff Calculation)		
Prof S Mahapatra	Design of Grid connected Solar PV power Plant and PVSyst Software	Capacity Building Program on Solar PV Power Plant (O & M, Design, DPR Preparation & Tariff Calculation)	29th May 2023	NPTI-NER, Guwahati

Awards/Honors/ Notable Achievements

Name of Awardee	Designation of Awardee	Achievement	Event/Awarded by
Prof. D Deka	Faculty member	Fellow Royal Society of Chemistry (FRSC)	Royal Society of Chemistry, London

Other Significant Activities of the Department/Centre

- A training program on 'Energy Access Explorer' was organized jointly by the World Resources Institute (WRI), India and the Department of Energy at Tezpur University on December 2, 2023. The program was coordinated by Dr. Sadhan Mahapatra.
- Tech-Talk on Performance Analysis of a Grid Connected Solar PV Power Plant by Sarangapani Saikia, SDO, APDCL, Dhekiajuli on May 10, 2023.
- Tech-Talk on Plastic Circularity: Pyrolysis to Steam cracking by Dr Bhargav Baruah, MTech Alumni 2015-17 batch on November 16, 2023.
- Expert Talk on Sustainability in Energy Technologies by Prof. Biswajit Ghosh, The Neotia University, Kolkata on November 20, 2023.
- Expert Talk on Indo-Hungary Collaborative Research Project by Dr. Robert Barthos and Dr. Gyula Novodarszki, Hungary on November 28, 2023.

Notable Placement of Students

Name of Student	Academic Programme	Placement Designation	Company/Organization	Mode of Selection
Nayan Jyoti Mahapurushia	M.Tech in Energy Technology	Teacher	Smart IAS foundation, Guwahati	Off-Campus
Prachujya Borah	M.Tech in Energy Technology	Planning Associate	Indus Power Ltd, Guwahati	Off-Campus
Nilotpal Baishya	M.Tech in Energy Technology	Project Associate	IITG	Off-Campus
Sarashi Mahanta	M.Tech in Energy Technology	Assistant Manager	Vivid Emission Reduction Universal Pvt. Ltd	Off-Campus
Mrigakshee Chakravarty	M.Tech in Energy Technology	Probationary Officer	Federal Bank, Siliguri	Off-Campus

Enrollment of Students in other Institutes for Higher Studies

Name of Student	Academic Programme	Name of other Institute	Enrolled Academic Programme
Biswajit Das	MTech in Energy Technology	IITG	PhD
Shyamantak Raj Barman	MTech in Energy Technology	Tezpur University	PhD

DEPARTMENT OF FOOD ENGINEERING AND TECHNOLOGY

The Department

The Department of Food Engineering and Technology was established in the year 2006 with the aim of creating skilled human resources in the engineering aspect of food processing in order to cater to the needs of the rapidly growing food processing sector. Since its inception, the Department has been imparting M.Tech. programme in food processing and technology. The B.Tech. programme of the Department is accredited by the National Board of Accreditation (NBA) as a Tier-I programme. The Department also offers PhD in Food Engineering and Technology and students are also admitted through AICTE Doctoral Fellowship (ADF), NET/JRF, GATE etc.

The Department has well developed laboratories for teaching and research created from grants received from various agencies viz., HRD grant from the Ministry of Food Processing Industries (MoFPI), Govt. of India, grant under the FIST programme (Level I) from the Department of Science and Technology (DST), grant under the UGC- SAP (DRS-I) programme of the UGC, and grant under the NEQIP Scheme of the AICTE. The Department has established NABL accredited Food Quality Control Laboratory (FQCL) supported by the MoFPI to cater to the requirements of testing nutritional parameters of various food items manufactured by various food industries. The Department has been recognized as the State Level Technical Institute (SLTI) for Assam and Meghalaya under the PM-FME scheme (PM Formalization of Micro food processing Enterprises Scheme) of MoFPI, GoI, New Delhi.

Research activities at the Department are supported by sponsoring agencies like UGC, MoFPI, DST, DBT, DRDO, ICAR, AICTE, MSME, ASTEC, etc. Various projects carried out at the Department aims at developing effective and low-cost technologies for the society. Some developed food products and processes have also been patented by the faculty members. Workshops, conferences and seminars are regularly organized in the Department for knowledge sharing among peers as well as for motivating local youths to start their own enterprises.

Academic Programmes and Student Intake

Academic Programme	Intake
BTech in in Food Engineering & Technology	56
MTech in Food Engineering & Technology	23
PhD in Food Engineering & Technology	Variable, 08 in 2023-24

Thrust Areas

- Value addition of convenience foods
- Process engineering for desired food product characteristics

Major Facilities /Equipment Available

- One dedicated library with more than 200 books
- Computer laboratory with more than 30 computers with licensed software like MATLAB, Scilab
- Hunter Color Spectrophotometer (Hunter Lab, USA)
- Texture Analyser (Stable Micro System, UK)
- Freeze Dryer (Lyolab, India)
- HPLC (Waters, USA)
- Modified atmospheric packaging unit (Vacstar, Sweden),
- DSC-TGA (Netzsch, Germany)
- Encapsulator (Buchi, Switzerland)
- Gas pycnometer (Porous Materials Inc., USA)
- Fermenter (Sartorius, Germany)
- Supercritical fluid extraction system (Waters, USA)
- Rheometer (Anton Paar, Austria)
- PCR (Eppendorf, USA)

Research Projects (Both Ongoing And New)

Project Title	Funding Agency	Amount (in INR)	Duration	Investigator(s)
Phytochemical profiling and valorization of Pomelo fruit of Northeast India	MoFPI	41.48 lakhs	2021-2023	P Mishra
Non-thermal processing of Assam lemon juice using ozone processing	ASTEC	1.98 lakhs	2022-2023	NR Swami Hulle
Valorisation of Biobased Feedstock derived Biomaterials and Functionalized Nanostructures for High Performance Food Applications	Tezpur University	2 lakhs	2021-2022	T Ghosh
Fabrication of Non-Toxic Agro-Waste Derived Nanocellulosic Materials based Functionalized Biocomposites for High Performance Food Applications	SERB-DST	30.23 lakhs	2022-2024	T Ghosh
Development and evaluation of amylose sensor for assessing ageing of millet	DST-SERB	35.58 lakhs	2024-2027	Dr. Nickhil C.
Characterization and quality evaluation of smoked dried fermented fish product (Napham) prepared by Bodo community of Assam	ASTEC	3.05 lakhs	2022-2024	Prof. S. C. Deka and Dr. Nickhil C.
Development of infestation sensor system for major millets during post-harvest storage and their control using emerging technology	DST-SHRI	39.50 lakhs	2024-2027	Dr. Nickhil C.

Publications by Faculty and Staff

Journal Publications

1. Chutia, H. and Mahanta, C.L. (2023). Clean label physical conjugates of protein-based bio-emulsifiers for food applications, *Food Chemistry Advances*, 3:100469, <https://doi.org/10.1016/j.focha.2023.100469>
2. Gautam, G., Talukdar, D., & Mahanta, C. L. (2023). Sonochemical effect on the degree of substitution of octenyl-succinic anhydride into waxy rice starch nanoparticles and study of gastro-intestinal hydrolysis using INFOGEST in vitro digestion method. *Food Research International*, 165, 112348.
3. Sarma, O., Kundlia, M., Chutia, H., & Mahanta, C. L. (2023). Processing of encapsulated flaxseed oil-rich banana-based (dwarf cavendish) functional fruit leather. *Journal of Food Process Engineering*, 46(4), e14282.
4. Rohilla, S., Bora, J., & Mahanta, C. L. (2023). Effect of thermal treatment and addition of olive oil on the antioxidant properties of tamarillo puree. *Journal of Food Science and Technology*, 60(3), 1202-1208.
5. Rohilla, S., Mahanta, C. L., & Singha, S. (2023). Development of carotenoids enriched mayonnaise utilizing yellow tamarillo peel waste: an innovative approach for extracting carotenoids using high shear disperser and ultrasound as green extraction techniques. *Waste and Biomass Valorization*, 14(11), 3575-3587.
6. Maibam, B. D., Chakraborty, S., Nickhil, C., & Deka, S. C. (2023). Effect of Euryale ferox seed shell extract addition on the in vitro starch digestibility and predicted glycemic index of wheat-based bread. *International Journal of Biological Macromolecules*, 226, 1066-1078.
7. Muchahary, S., Nickhil, C., & Deka, S. C. (2023). An artificial intelligence approach for modeling nachos developed from bhimkol banana (*Musa balbisiana*) blossom. *Journal of Food Process Engineering*, 46(2), e14227.
8. Neog, U., Dhar, P., Kumari, T., Nickhil, C., Deka, S. C., & Pandiselvam, R. (2023). Optimization of microwave-assisted process for extraction of phytochemicals from norabogori fruit (*Prunuspersica* L. Batsch) and its application as fruit leather. *Biomass Conversion and Biorefinery*, 1-15.
9. Devi, S. R., Kumari, T., & Deka, S. C. (2023). Extraction of dietary fiber and phytochemicals from bottle gourd seeds (*Lagenaria siceraria*), its physicochemical properties and application in food model. *Food Chemistry Advances*, 2, 100252.
10. Devi, Y. B., Dhar, P., Kumari, T., & Deka, S. C. (2023). Development of functional pasta from pineapple pomace with soyflour protein. *Food Chemistry Advances*, 2, 100198.
11. Chakraborty, S., & Hazarika, M. K. (2023). Development of ANN-based sorption isotherm algorithm for the prediction of EMC of the paddy. *Agricultural Engineering International: CIGR Journal*, 25(1).
12. Singla, M., & Sit, N. (2022). Raising challenges of ultrasound-assisted processes and sonochemistry in industrial applications based on energy efficiency. In *Energy Aspects of Acoustic Cavitation and Sonochemistry* (pp. 349-373). Elsevier.

13. Singha, P., Rani, R., & Badwaik, L. S. (2023). Sweet lime peel-, polyvinyl alcohol-and starch-based biodegradable film: preparation and characterization. *Polymer Bulletin*, 80(1), 589-605.
14. Tongbram, T., Lewis, X., Borah, P. K., Warren, F. J., di Bari, V., Badwaik, L. S., & Yakubov, G. E. (2023). Delay in gelatinisation of hybrid starch microgels. *Proceedings of the Nutrition Society*, 82(OCE1), E9.
15. Sarma, D., Nath, K. K., Biswas, S., Chetia, I., Badwaik, L. S., Ahmed, G. A., & Nath, P. (2023). SERS determination and multivariate classification of antibiotics in chicken meat using gold nanoparticle–decorated electrospun PVA nanofibers. *Microchimica Acta*, 190(2), 64.
16. Saikumar, A., Nickhil, C., & Badwaik, L. S. (2023). Physicochemical characterization of elephant apple (*Dillenia indica* L.) fruit and its mass and volume modeling using computer vision. *Scientia Horticulturae*, 314, 111947.
17. Devi, L. M., Das, A. B., & Badwaik, L. S. (2023). Effect of gelatin and acacia gum on anthocyanin coacervated microcapsules using double emulsion and its characterization. *International Journal of Biological Macromolecules*, 235, 123896.
18. Chetia, J., Adhikary, P., Devi, L. M., & Badwaik, L. S. (2023). Extraction of essential oil from Assam lemon peels and its incorporation in chitosan based coating for maintaining grape quality. *Sustainable Chemistry and Pharmacy*, 32, 101034.
19. Gupta, A. K., Rather, M. A., & Mishra, P. (2023). Design and development of laboratory scale batch type device for debittering of bitter citrus juice. *Journal of Food Process Engineering*, 46(3), e14265.
20. Yumnam, M., Marak, P. R., Gupta, A. K., Rather, M. A., & Mishra, P. (2023). Effect of pomelo peel essential oil on the storage stability of a few selected varieties of freshwater fish. *Journal of Agriculture and Food Research*, 11, 100472.
21. Gupta, V., Thakur, R., Barik, M., & Das, A. B. (2023). Effect of high amylose starch-natural deep eutectic solvent based edible coating on quality parameters of strawberry during storage. *Journal of Agriculture and Food Research*, 11, 100487.
22. Wani, S. A., Kour, J., Haq, R. U., & Elshikh, M. S. (Eds.). (2023). *Fruits and Their Roles in Nutraceuticals and Functional Foods*. CRC Press.
23. Dhua, S., MJ, P. D., & Mishra, P. (2023). A comprehensive review on multifunctional smart carbon dots (C dots) based aerogel. *Food Chemistry Advances*, 3, 100341.
24. Rather, M. A., Thakur, R., Hoque, M., Das, R. S., Miki, K. S. L., Teixeira-Costa, B. E., ... & Gupta, A. K. (2023). Sorghum (*Sorghum bicolor*): Phytochemical composition, bio-functional, and technological characteristics. In *Nutri-Cereals* (pp. 57-89). CRC Press.
25. Thakur, R., Irom, B. S., Mir, M. B., Singha, P., Devi, Y. B., Das, T., ... & Gupta, A. K. (2023). Extraction, structural properties, and applications of gum tragacanth. In *Natural Gums* (pp. 373-415). Elsevier.
26. Yumnam, M., Marak, P. R., Gupta, A. K., Rather, M. A., & Mishra, P. (2023). Effect of pomelo peel essential oil on the storage stability of a few selected varieties of freshwater fish. *Journal of Agriculture and Food Research*, 11, 100472.
27. Rather, M. A., Gupta, K., Gupta, A. K., Mishra, P., Qureshi, A., Dutta, T. K., ... & Mandal, M. (2023). Phytochemical analysis and demonstration of antioxidant, antibacterial, and

- antibiofilm activities of ethnomedicinal plants of north east India. *Applied Biochemistry and Biotechnology*, 195(5), 3257-3294.
28. Dhua, S., & Mishra, P. (2023). Development of highly reusable, mechanically stable corn starch-based aerogel using glycerol for potential application in the storage of fresh spinach leaves. *International Journal of Biological Macromolecules*, 242, 125102.
 29. Gupta, A. K., Dhua, S., Kumar, V., Naik, B., Magwaza, L. S., Ncama, K., ... & Mishra, P. (2023). Current and emerging applications in detection and removal of bitter compounds in citrus fruit juice: a critical review. *Food Bioscience*, 102995.
 30. Hidangmayum, K. S., Hulle, N. R. S., & Rao, P. S. (2023). Effect of high pressure pretreatment on the drying characteristics of the beetroot (*Beta vulgaris*) cubes. *Journal of Agriculture and Food Research*, 11, 100493.
 31. Bhattacharjee, M., Goswami, S., Pramanik, N. B., Barman, J., Saikia, M., Swami Hulle, N. R., & Haloi, D. J. (2023). Chitosan/Clay biocomposite films with enhanced physico-chemical, mechanical and antimicrobial properties. *Analytical Chemistry Letters*, 13(6), 609-625.
 32. Bhardwaj, A., Purohit, S., & Sharma, V. (2023). Asian fermented root and tuber-based products. In *Indigenous fermented foods for the tropics* (pp. 285-296). Academic Press.
 33. Prasad, S., & Purohit, S. R. (2023). Microbial exopolysaccharide: Sources, stress conditions, properties and application in food and environment: A comprehensive review. *International journal of biological macromolecules*, 242, 124925.
 34. Ranjan, R., Gupta, A. K., Pandiselvam, R., Chauhan, A. K., Akhtar, S., Jha, A. K., ... & Preet, M. S. (2023). Plasma treatment: An alternative and sustainable green approach for decontamination of mycotoxin in dried food products. *Journal of Agriculture and Food Research*, 14, 100867.
 35. Chakraborty, S., & Hazarika, M. K. (2023). Development of ANN-based sorption isotherm algorithm for the prediction of EMC of the paddy. *Agricultural Engineering International: CIGR Journal*, 25(1).
 36. Kumari, S., Chakraborty, S., Choudhary, A. K., Boiragi, A., Das, O., & Hazarika, M. K. (2023). Neuro-fuzzy interface and mathematical modeling of rehydration kinetics and dynamic vapor sorption behavior of novel no-cooking rice. *Journal of Food Process Engineering*, 46(4), e14299.
 37. Brahma, R., Hazarika, M. K., & Ray, S. (2023). Effects of xanthan gum on the quality of gluten-free bora rice and corn flour noodles using d-optimal mixture design approach. *Carpathian Journal of Food Science & Technology*, 15(3).
 38. Rizwana, S., Nesha, S. F., Kumar, K., Pohthmi, S., & Hazarika, M. K. (2023). Drying kinetics and image-based identification of drying end point during parboiling of komal chawal. *Journal of Agriculture and Food Research*, 13, 100646.
 39. Trivedi, D., Gautam, S. P., Abdul, S., Hazarika, M. K., & Chakraborty, S. (2023). Instant decompression-induced swell drying of banana: Machine learning and swarm intelligence embedded modeling and process optimization. *Journal of Food Process Engineering*, 46(11), e14431.
 40. Borah, A., Das, D. K., Mukhopadhyay, R., & Mahanta, C. L. (2023). Investigation of low amylose rice extrudates blended with germinated green gram and bhimkol flour. *Applied Food Research*, 3(2), 100315.

41. Marboh, V., & Mahanta, C. L. (2023). Rheological and textural properties of sohphlang (*Flemingia vestita*) starch gels as affected by heat moisture treatment and annealing. *Food Chemistry Advances*, 3, 100542.
42. Devi, S. R., Kumari, T., & Deka, S. C. (2023). Extraction of dietary fiber and phytochemicals from bottle gourd seeds (*Lagenaria siceraria*), its physicochemical properties and application in food model. *Food Chemistry Advances*, 2, 100252.
43. Maibam, B. D., Nickhil, C., & Deka, S. C. (2023). Preparation, physicochemical characterization, and in vitro starch digestibility on complex of *Euryale ferox* kernel starch with ferulic acid and quercetin. *International journal of biological macromolecules*, 250, 126178.
44. Chetia, J., Adhikary, P., Devi, L. M., & Badwaik, L. S. (2023). Extraction of essential oil from Assam lemon peels and its incorporation in chitosan based coating for maintaining grape quality. *Sustainable Chemistry and Pharmacy*, 32, 101034.
45. Dowerah, S. S., Das, A., Singla, M., & Sit, N. (2023). Comparison of yield and properties of banana juice extracted by hot water extraction method and different enzymes and preparation of wine from the extracted juices. *Food Bioengineering*, 2(4), 317-327.
46. Thokchom, R., Das, M. J., Muchahary, S., Ghosh, T., & Deka, S. C. (2023). Nanocellulose Fibers Derived from Culinary Banana Flower (*Musa ABB*) Waste: Its Characterization and Application. *Journal of Packaging Technology and Research*, 7(3), 113-125.
47. Kumari, T., Das, A. B., & Deka, S. C. (2023). Effect of enzymatic modified pea peel dietary fibre on syneresis, texture, rheology and microstructural properties of yogurt. *Biomass Conversion and Biorefinery*, 1-13.
48. Choudhury, N., Nickhil, C., & Deka, S. C. (2023). Comprehensive review on the nutritional and therapeutic value of banana by-products and their applications in food and non-food sectors. *Food Bioscience*, 103416.
49. Maibam, B. D., Chakraborty, S., Nickhil, C., & Deka, S. C. (2023). Effect of *Euryale ferox* seed shell extract addition on the in vitro starch digestibility and predicted glycemic index of wheat-based bread. *International Journal of Biological Macromolecules*, 226, 1066-1078.
50. Muchahary, S., Nickhil, C., & Deka, S. C. (2023). An artificial intelligence approach for modeling nachos developed from bhimkol banana (*Musa balbisiana*) blossom. *Journal of Food Process Engineering*, 46(2), e14227.
51. Neog, U., Dhar, P., Kumari, T., Nickhil, C., Deka, S. C., & Pandiselvam, R. (2023). Optimization of microwave-assisted process for extraction of phytochemicals from norabogori fruit (*Prunuspersica* L. Batsch) and its application as fruit leather. *Biomass Conversion and Biorefinery*, 1-15.
52. Devi, S. R., Kumari, T., & Deka, S. C. (2023). Extraction of dietary fiber and phytochemicals from bottle gourd seeds (*Lagenaria siceraria*), its physicochemical properties and application in food model. *Food Chemistry Advances*, 2, 100252.
53. Devi, Y. B., Dhar, P., Kumari, T., & Deka, S. C. (2023). Development of functional pasta from pineapple pomace with soyflour protein. *Food Chemistry Advances*, 2, 100198.
54. Chakraborty, S., & Hazarika, M. K. (2023). Development of ANN-based sorption isotherm algorithm for the prediction of EMC of the paddy. *Agricultural Engineering International: CIGR Journal*, 25(1).

55. Singha, P., Rani, R., & Badwaik, L. S. (2023). Sweet lime peel-, polyvinyl alcohol-and starch-based biodegradable film: preparation and characterization. *Polymer Bulletin*, 80(1), 589-605.
56. Tongbram, T., Lewis, X., Borah, P. K., Warren, F. J., di Bari, V., Badwaik, L. S., & Yakubov, G. E. (2023). Delay in gelatinisation of hybrid starch microgels. *Proceedings of the Nutrition Society*, 82(OCE1), E9.
57. Sarma, D., Nath, K. K., Biswas, S., Chetia, I., Badwaik, L. S., Ahmed, G. A., & Nath, P. (2023). SERS determination and multivariate classification of antibiotics in chicken meat using gold nanoparticle-decorated electrospun PVA nanofibers. *Microchimica Acta*, 190(2), 64.
58. Saikumar, A., Nickhil, C., & Badwaik, L. S. (2023). Physicochemical characterization of elephant apple (*Dillenia indica* L.) fruit and its mass and volume modeling using computer vision. *Scientia Horticulturae*, 314, 111947.
59. Devi, L. M., Das, A. B., & Badwaik, L. S. (2023). Effect of gelatin and acacia gum on anthocyanin coacervated microcapsules using double emulsion and its characterization. *International Journal of Biological Macromolecules*, 235, 123896.
60. Chetia, J., Adhikary, P., Devi, L. M., & Badwaik, L. S. (2023). Extraction of essential oil from Assam lemon peels and its incorporation in chitosan based coating for maintaining grape quality. *Sustainable Chemistry and Pharmacy*, 32, 101034.
61. Gupta, A. K., Rather, M. A., & Mishra, P. (2023). Design and development of laboratory scale batch type device for debittering of bitter citrus juice. *Journal of Food Process Engineering*, 46(3), e14265.
62. Yumnam, M., Marak, P. R., Gupta, A. K., Rather, M. A., & Mishra, P. (2023). Effect of pomelo peel essential oil on the storage stability of a few selected varieties of freshwater fish. *Journal of Agriculture and Food Research*, 11, 100472.
63. Gupta, V., Thakur, R., Barik, M., & Das, A. B. (2023). Effect of high amylose starch-natural deep eutectic solvent based edible coating on quality parameters of strawberry during storage. *Journal of Agriculture and Food Research*, 11, 100487.
64. Choudhury, N., Nickhil, C., & Deka, S. C. (2023). Comprehensive review on the nutritional and therapeutic value of banana by-products and their applications in food and non-food sectors. *Food Bioscience*, 103416.
65. Dhar, P., Nickhil, C., Pandiselvam, R., & Deka, S. C. (2023). Pineapple waste-based-biorefinery for sustainable generation of value-added products. *Biomass Conversion and Biorefinery*, 1-22.
66. Nath, K. D., Nickhil, C., Borah, D., Pandiselvam, R., & Deka, S. C. (2024). Preparation, Characterization, and Nutritional Analysis of Napham: An Indian Traditional Smoke-Dried-Fermented Fish Paste. *Journal of Food Biochemistry*, 2024(1), 7410065.
67. Muchahary, S., Nickhil, C., Jeevarathinam, G., Rustagi, S., & Deka, S. C. (2024). Encapsulation of quercetin fraction from *Musa balbisiana* banana blossom in chitosan alginate solution, its optimization and characterizations. *International Journal of Biological Macromolecules*, 264, 130786.
68. Saha, J., Kumari, T., Nickhil, C., & Deka, S. C. (2024). Studies on the cytotoxicity of leaf protein concentrate from *Diplazium esculentum*, pasta preparation and assessment of its quality during storage. *Food Chemistry Advances*, 4, 100667.

69. Begum, F., Chutia, H., Bora, M., Deb, P., & Mahanta, C. L. (2024). Characterization of coconut milk waste nanocellulose based curcumin-enriched Pickering nanoemulsion and its application in a blended beverage of defatted coconut milk and pineapple juice. *International Journal of Biological Macromolecules*, 259, 129305.
70. Rohilla, S., & Mahanta, C. L. (2024). Phytochemical composition and in-vitro bioaccessibility of phenolics in different varieties of tamarillo (*Solanum betaceum*) fruits: Effect of the high-pressure homogenization and ultrasonication. *Food Chemistry Advances*, 4, 100673.
71. Athoi, W., Marboh, V., & Mahanta, C. L. (2024). Effect of ultrasonication, germination, and steaming on the properties of a black rice variety. *Food Chemistry Advances*, 4, 100681.
72. Ghosh, T., Roy, S., Khan, A., Mondal, K., Ezati, P., & Rhim, J. W. (2024). Agricultural waste-derived cellulose nanocrystals for sustainable active food packaging applications. *Food Hydrocolloids*, 110141.
73. Roy, S., Ghosh, T., Zhang, W., & Rhim, J. W. (2024). Recent progress in PBAT-based films and food packaging applications: A mini-review. *Food Chemistry*, 437, 137822.
74. Bhattacharya, T., Khan, A., Ghosh, T., Kim, J. T., & Rhim, J. W. (2024). Advances and prospects for biochar utilization in food processing and packaging applications. *Sustainable Materials and Technologies*, e00831.
75. Priyadarshi, R., Ghosh, T., Roy, S., & Rhim, J. W. (2024). Biopolymer-based antimicrobial nanocomposite materials for food packaging and preservation. In *Food Packaging and Preservation* (pp. 33-52). Academic Press.
76. Sharma, M., Dash, K. K., & Badwaik, L. S. (2024). Development of chewing gum model system from phytochemicals of black jamun (*Syzygium cumini*) pulp and study of its dissolution kinetics. *Journal of Food Science and Technology*, 61(2), 300-310.
77. Badwaik, L. S., Choudhury, M., Dash, K. K., Borah, P. K., & Deka, S. C. (2014). Osmotic dehydration of bamboo shoots enhanced by centrifugal force and pulsed vacuum using salt as osmotic agent. *Journal of Food Processing and Preservation*, 38(5), 2069-2077.
78. Sarma, D., Marak, M. R., Chetia, I., Badwaik, L. S., & Nath, P. (2024). AuNP decorated aegle marmelos leaf as SERS substrate for trace detection of antibiotics and machine learning based classification. *Physica Scripta*, 99(2), 026006.
79. Rani, R., & Badwaik, L. S. (2024). Synergistic impact of natural gums and crosslinkers on the properties of oilseed meals based biopolymeric films. *International Journal of Biological Macromolecules*, 265, 130809.
80. Saikumar, A., Singh, A., Dobhal, A., Arora, S., Junaid, P. M., Badwaik, L. S., & Kumar, S. (2024). A review on the impact of physical, chemical, and novel treatments on the quality and microbial safety of fruits and vegetables. *Systems Microbiology and Biomanufacturing*, 4(2), 575-597.
81. Junaid, P. M., Saikumar, A., Nazim, M. S., Zaidi, S., Badwaik, L. S., & Ahmad, F. (2024). Film-based packaging for food safety and preservation: issues and perspectives. In *Microbial biotechnology in the food industry: advances, challenges, and potential solutions* (pp. 429-446). Cham: Springer International Publishing.
82. Kapila, K., Kirtania, S., Devi, L. M., Saikumar, A., Badwaik, L. S., & Rather, M. A. (2024). Potential perspectives on the use of poly (vinyl alcohol)/graphene oxide nanocomposite films

- and its characterization. *Journal of Food Measurement and Characterization*, 18(2), 1012-1025.
83. Dutta, D., & Sit, N. (2024). Preparation and characterization of potato starch-based composite films reinforced by modified banana fibers and its application in packaging of grapes. *International Journal of Biological Macromolecules*, 254, 127791.
 84. Dutta, D., & Sit, N. (2024). Comprehensive review on developments in starch-based films along with active ingredients for sustainable food packaging. *Sustainable Chemistry and Pharmacy*, 39, 101534.
 85. Kalita, B. J., & Sit, N. (2024). Characterization of cellulase immobilized by different methods of entrapment and its application for carrot juice extraction. *Food Science and Biotechnology*, 33(5), 1163-1175.
 86. Afzia, N., Shill, N., Kalita, B. J., & Sit, N. (2024). Optimization of conditions for production of pectinase in solid-state fermentation with *Aspergillus flavus* using dried Assam lemon peel powder as substrate. *Measurement: Food*, 14, 100166.
 87. Srivastava, P. K., & Sit, N. (2024). Physicochemical characterization of Spanish cherry (*Mimusops elengi*) fruit at different growth stages and its mass modelling using machine learning algorithms. *Journal of Food Measurement and Characterization*, 18(5), 3906-3922.
 88. Basumatary, S., Sarkar, B., Singh, A., & Sit, N. (2024). Effect of different ultrasound conditions and other parameters on solids gain, water loss, and properties of osmotically dehydrated carrots. *Journal of Food Process Engineering*, 47(3), e14585.
 89. Singla, M., & Sit, N. (2024). Characterization of spray dried watermelon juice powder dried at different conditions and effect of incorporation of freeze-dried extract of papaya peel on phytochemical content of reconstituted juice. *Journal of Food Measurement and Characterization*, 18(3), 1922-1932.
 90. Jha, A. K., & Sit, N. (2024). Encapsulation of bioactive compounds extracted from haritaki pulp (*Terminalia chebula* Retzius): characterization of physical, thermal, and morphological properties. *Sustainable Food Technology*, 2(2), 362-372.
 91. Kalita, B. J., & Sit, N. (2023). Optimization of the culture conditions for cellulase production from suitable food waste using fungal strain isolated from different soils. *Biomass Conversion and Biorefinery*, 1-14.
 92. Chutia, H., Sharma, M., Das, M.J. et al. (2024). Properties of Dietary Fibre From Passion Fruit Seed Obtained Through Individual and Combined Alkaline and Ultrasonication Extraction Techniques. *Waste and Biomass Valorisation*, 15: 2345–2359 . <https://doi.org/10.1007/s12649-023-02288-0>
 93. Chutia, H., Begum, F., Rohilla, S. and Mahanta, C. L. (2024). "Impact of thermosonication treatment on passion fruit juice: ANN/GA optimization, predictive modelling for shelf life and quality changes during storage " *International Journal of Food Engineering*, 20 (6), 463-474. <https://doi.org/10.1515/ijfe-2023-0306>
 94. Pandey, V. K., Dar, A. H., Rohilla, S., Mahanta, C. L., Shams, R., Khan, S. A., & Singh, R. (2023). Recent insights on the role of various food processing operations towards the development of sustainable food systems. *Circular Economy and Sustainability*, 3(3), 1491-1514.

Book Chapters

1. Junaid, P. M., Saikumar, A., Nazim, M. S., Zaidi, S., Badwaik, L. S., & Ahmad, F. (2024). Film-Based Packaging for Food Safety and Preservation: Issues and Perspectives. In *Microbial Biotechnology in the Food Industry: Advances, Challenges, and Potential Solutions* (pp. 429-446). Cham: Springer International Publishing.
2. Priyadarshi, R., Ghosh, T., Roy, S., & Rhim, J. W. (2024). Biopolymer-based antimicrobial nanocomposite materials for food packaging and preservation. In *Food Packaging and Preservation* (pp. 33-52). Academic Press.
3. Ghosh, T., Changmai, M., & Bordoloi, S. (2024). Intelligent packaging—sensors. In *Intelligent Packaging* (pp. 101-126). Academic Press.
4. Sharma, S., Ghosh, T., Mulchandani, N., & Katiyar, V. (2024). Biodegradable Synthetic Poly (Lactic Acid)(PLA) for Food Packaging Application. *Agro-Waste Derived Biopolymers and Biocomposites: Innovations and Sustainability in Food Packaging*, 295-317.
5. Sharma, S., Ghosh, T., Mulchandani, N., & Katiyar, V. (2024). Biodegradable Synthetic Poly (Lactic Acid)(PLA) for Food Packaging Application. *Agro-Waste Derived Biopolymers and Biocomposites: Innovations and Sustainability in Food Packaging*, 295-317.
6. Bhardwaj, A., Purohit, S. R., & Sharma, V. (2023). Asian fermented root and tuber-based products. In *Indigenous fermented foods for the tropics* (pp. 285-296). Academic Press.
7. Monika, Changmai, M., Ghosh, T., Karwa, A., (2023) Natural Resources based nanobiomaterials: A sustainable material for biomedical applications.
8. Bhattacharya, T., Ghosh, T., Kim, J.T., J-W Rhim, (2023) “Synthesis of Biochar Composites: Methods and Applications” by Springer Nature.
9. Gautam, G., Gayary, M. A., Mahnot, N. K., & Mahanta, C. L. (2024). Ultrasound Processing of Foods and Food Products: An Overview. *Advanced Research Methods in Food Processing Technologies*, 97-123.
10. Priyadarshi, R., Ghosh, T., Roy, S., & Rhim, J. W. (2024). Biopolymer-based antimicrobial nanocomposite materials for food packaging and preservation. In *Food Packaging and Preservation* (pp. 33-52). Academic Press.
11. Bora, R., Chutia, H., Monika, Changmai, M., Mahanta, C. L., Ghosh, T. (2023) Natural fiber-based Composite for Food Packaging, book entitled "Agro-Waste derived Biopolymers and biocomposites: Innovations and Sustainability in Food Packaging" to be published by Scrivener Publishing LLC., *Wiley-Scrivener* imprint.
12. Monika, Changmai, M., Ghosh, T., Karwa, A., (2023) Natural Resources based nanobiomaterials: A sustainable material for biomedical applications.
13. Bhattacharya, T., Ghosh, T., Kim, J.T., J-W Rhim, (2023) “Synthesis of Biochar Composites: Methods and Applications” by Springer Nature.
14. Soumya Ranjan Purohit, Vasudha Sharma, Meena Kumari, Kasi Muthukumarappan, Joanna Kane-Potaka *Future Crops and Processing Technologies for Sustainability and Nutritional Security*, Edited By, CRC Press, ISBN - ISBN 9781032248004

Talks by the Faculty Members Abroad and in India			
Name of the faculty member	Title of the Event	Date	Place /institute/venue
Prof. C. L. Mahanta	International Food Convention (IFCON)	December 07-10, 2023	Central Food Technological Research Institute, Mysore
	Lecture on “Programme Objectives, Learning Outcomes and Course Outcomes” Online IDRC on Curriculum and Pedagogy during 07-20 June 2023	7 th June 2023	TLC Tezpur University
	Lecture on “Skill development and Skill Inclusion in Education (Theme VI)” At the Short-Term Course on NEP Orientation and Sensitization of NEP 2020 during 01-10 November 2023	8 th November 2023	MMTTC, Tezpur University
	Lecture on “New Generation Skills and Employability: Policies and Skill Development Strategies (Theme VI)” At the Short-Term Course on NEP Orientation and Sensitization of NEP 2020, February 19-28, 2024	23 rd February 2024	MMTTC, Tezpur University
	Lecture on “New Generation Skills and Employability: Policies and Skill Development Strategies (Theme VI)” At the Short-Term Course on NEP Orientation and Sensitization of NEP 2020, 13-22 March 2024	14 th March 2024	MMTTC, Tezpur University
	Lecture on “New Generation Skills and Employability: Policies and Skill Development Strategies (Theme VI)”	10 th May 2024	MMTTC, Tezpur University

	At the Short-Term Course on NEP Orientation and Sensitization of NEP 2020, May 06-15, 2024		
	Lecture on “New Generation Skills and Employability: Policies and Skill Development Strategies (Theme VI)” At the Short-Term Course on NEP Orientation and Sensitization of NEP 2020, 04-13 June 2024	13 th June 2024	MMTTC, Tezpur University
Prof. L. S. Badwaik	WEBINAR on Sustainable Food Packaging	13 th April 2024	Chamber for Advancement of Small and Medium Businesses, Mumbai
Dr. NR Swami Hulle	Capacity development program on Value addition of millets through secondary level processing, packaging and branding	08 th December 2023	Tezpur University, Tezpur
	Workshop on Rice Fortification at Indian Institute of Technology Delhi, India	4 th April 2024	IIT Delhi
	International Conference at Sharda University	5 th April 2024	Sharda University, Greater Noida
	4th AMIFOST International Conference at Amity University, India	19 th March 2024	Amity University, Noida
	International Conference FORTISF 2024 at IIT Kharagpur	22 nd February 2024	IIT Kharagpur
	Faculty Development Programme at Manav Rachna University, Faridabad, India	19 th December 2023	Manav Rachna University

	Carbo XXXVII- International Conference at Delhi Technological University, India	30 th November 2023	Delhi Technological University
	Japan-NER Bioeconomic Technology Cooperation Symposium	March 03-05, 2024	IIT Guwahati, India
	2 Day Training Program for District Level Trainers (DLT) in Food Processing domain under PMFME scheme	May 17-18, 2024.	Tezpur University, Tezpur, Assam

Seminar/Workshop/Symposia/Invited Lectures Organised

Title	Date
1st Research Scholar Day 2023 at FET Department	14 th September 2023
3 Days Capacity Development Programme on Value Addition of Millets through Secondary Level processing, Packaging and Branding, Sponsored by NABARD	7 th -9 th December 2023

Distinguished Visitors

Mukund V Karwe, Distinguished Professor, Rutgers University visited the dept and grace delivered keynote address during research scholar day on 14th September 2023.

Awards & Honours/ Notable Achievements

Faculty

1. Prof. Laxikant S. Badwaik collected MSME Academia Excellence Award for the department of FET presented by Chamber for Advancement of Small & Medium Businesses (CASMB) during the FMCG Business Conclave and Award Ceremony held on March 1st, 2024 at the Jio Convention Center, BKC, Mumbai.
2. Prof. Nandan Sit received Dr. D. B. Wankhede Excellence Award 2022” by Association of Food Scientists & Technologists (India) [AFST(I)] for contributions in the field of Carbohydrate research on 7th December 2023.

Research Scholars/Students

1. Bora, M. and Purohit S. R., “Gut flow simulation of artificial duodenum”, 7th AMIFOST International Conference, organized by Amity University, Noida, India, March 19-20, 2024. Won Best Poster Award in Food Engineering theme.

2. Biswas, D. and Purohit, S. R., “Bamboo leaf protein concentrate: extraction, Characterization and digestibility study”, National Seminar on Ethnopharmacology for Bioeconomy, organized by CSIR-Northeast Institute of Science and Technology, November 28-30, 2023. Won Best Poster Award in Food and Agriculture theme.
3. Prasad, S and Purohit, S. R., “Production of microbial exopolysaccharide from raw jackfruit and its characterization”, Research and Industrial Conclave-23, organized by Indian Institute of Technology, Guwahati, May 14-16, 2023. Won Third Best Poster Award in Bioscience and Bioengineering theme

Other Important Activities of the Department

- Celebration of International Year of Millets, 2023-24
- Celebration of World Food Day, 2023

Number of Students Qualified in NET-JRF/GATE/SLET

Name of Qualifying Examination	Number of Qualified Students
UGC-NET	05
ICAR-NET	03
GATE	05

Notable Placements

Name	Designation	Organization
Srutika Bordoloi	Manufacturing Executive	ICML-Guwahati
Prasenjit Roy	Production Executive	Farm Press Pvt. Ltd.
Sumantra Choudhury	Higher studies	
V.Ganesh	Quality Control Executive	Penver Products Ltd.
Himanshu Chaudhary	Production Executive	Farm Press Pvt. Ltd
Trinayan Gogoi	Territory sales Incharge	GCMMF Ltd.
Mutyalapalli Ram Prasanna Kumar	Executive	ESAF Small Finance Bank
Sahil Kumar	Trainee	Auriga Research Pvt. Ltd
Bedanta Rajbongshi	Higher studies	PhD, Tezpur University
Kumar Shivam	Higher studies	PhD, IIT Guwahati
Deepali	Higher studies	PhD, IIT Guwahati
Muzammil Bora	Higher studies	PhD, IIT Guwahati

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DEPARTMENT OF MECHANICAL ENGINEERING

About the Department

The Mechanical Engineering (ME) department at Tezpur University was established in 2006. The department aims at producing skilled human resources with a strong foundation in ME for the heavy engineering and manufacturing industry. Another mission of the department is to train scholars in handling ME as well as interdisciplinary problems by exploiting their domain knowledge and using the latest technologies. The department has 15 regular and 02 guest faculty members with various specializations. There are 11 technical staff members in the department. Presently, the department is offering BTech, MTech (Specializations: Machine Design, and Thermal and Fluids Engineering) and PhD programmes in Mechanical Engineering. The department has various laboratories with state-of-the-art facilities and one central workshop with all kinds of machinery. Both the BTech and MTech programmes offered in the department are AICTE approved. The BTech programme in Mechanical Engineering is provisionally accredited by NBA, which has been effective from 2022-2025. The department has the vision to emerge as a centre of excellence, producing quality engineers and conducting cutting-edge research.

Academic Programmes and Student Intake

Academic Programme	Student Intake
<i>BTech</i>	68
<i>MTech</i>	23
<i>PhD</i>	Variable

Thrust Research Areas of the Department

- Complex thermal and mechanical system analysis using thermodynamic modelling, computational fluid dynamics and evolutionary based optimization techniques.
- Development and analysis of solar thermal power, cooling, storage and drying systems.
- Development of autofrettage methods, reinforced composites, micro alloying materials and their characterization.

Major Facilities/Equipment available

- Central Workshop
 - CNC Lathe Machine
 - CNC Milling Machine
 - Universal Milling Machine
 - HMT High Speed Precision Lathe
- Fluid Mechanics and Turbo-machinery Lab
 - Bernoulli's theorem demo module

- Pelton turbine
- Francis turbine
- Strength of Material Lab
 - Universal testing machine
 - Inverted metallurgical microscope with accessories and interface software
- Theory of Machine Lab
 - Static and Dynamic balancing
 - Sound level meter with sound level calibrator
- Vibration Lab
 - Universal vibration apparatus
 - Sound level meter with sound level calibrator
- CAD Lab
 - ANSYS academic teaching
 - Pro-E software
- Metrology Lab
- IC Engine and Automobile Lab
 - Diesel Engine test set up VCR
 - Variable compression ratio petrol engine
 - Computerised single cylinder petrol engine test rig
- Thermal and Heat Transfer Lab
 - VCR and VAR test rig
 - Air conditioning test rig
 - Cooling tower test rig
 - Stefan Boltzmann apparatus
 - Concentric tube heat, shell and tube heat exchanger apparatus
 - Dropwise and filmwise condensation apparatus
 - Emissivity measurement apparatus
 - Critical heat flux apparatus
 - Natural convection heat transfer apparatus
 - VCR petrol engine

Faculty Members

Designation	Name	Highest Qualification (Institute)	Specialization	<email> @tezu.ernet.in	Date of holding the current position
	Dilip Datta	PhD (IIT Kanpur)	Optimization, Mechanical Design	ddatta	10-02-2014
	Tapan Kumar Gogoi	PhD (Tezpur University)	Thermodynamic modelling, analysis and optimization of thermodynamic cycles and systems	tapan_g	05-09-2016
	Partha Pratim Dutta	PhD (Tezpur University)	Renewable energy, Thermal engineering, Drying Technology	ppdutta	26-11-2017
	Paragmoni Kalita	PhD (IIT Guwahati)	Computational Fluid Dynamics and heat transfer	paragmk	30-01-2021
	Polash Pratim Dutta	PhD (IIT Guwahati)	Precision manufacturing, soft computing, CAD	polashd	20-12-2021
	Sushen Kirtania	PhD (IIT Guwahati)	Machine Design	sushen	25-08-2022
	Sanjib Banerjee	PhD (IIT Guwahati)	Materials Engineering and Manufacturing	sanjibb	02-08-2022
	Prabin Haloi	ME (Gauhati University)	Thermal Engineering	haloi_p	16-07-2010
	Satadru Kashyap	PhD (Tezpur University)	Manufacturing, Composite Materials, Materials Science	satadru	07-09-2012
	Zahnupriya Kalita	PhD (Tezpur University)	Rehabilitation Robotics, Optimization	zk	26-08-2014

	Rakesh Bhadra	ME (IIE ST, Shibpur)	Welding, Machining	r.bhadr	19-09-2014
	Barnali Chowdhury	PhD (Gauhati University)	Thermal Engineering, Data analysis and optimization	barnali	02-02-2015
	Vivek Kr. Mehta	PhD (IIT Kanpur)	Optimization, Robotics	vkmehta	07-09-2016
	Seikh Mustafa Kamal	PhD (IIT Guwahati)	Stress analysis, Plasticity, Autofrettage, Fracture Mechanics	smkmech	07-09-2016
	Shikha Bhuyan	PhD (IIT Guwahati)	CFD, Renewable energy, Heat transfer	shikha5	03-10-2016
	Manash Protim Boruah	PhD (NIT Silchar)	Droplet/Bubble Dynamics, Electrohydrodynamics, Heat Transfer	manash	06-06-2022
	Pooja Dutta	PhD (Tezpur University)	Renewable Energy	pooja01	09-10-2023

Officers and Staff Members

Designation	Name	<email> @tezu.ernet.in	Date of holding the current position
<i>Technical Officer</i>	Prabin Kumar Bora	pkbora	10-10-2007
<i>Senior Technical Assistant</i>	Heman Malakar	heman	29-06-2009
	Guna Kanta Borah	gunakt	16-08-2007
	Anupjyoti Nath	anupn	20-08-2007
	Dipak Gogoi	dgogoi	10-01-2007
	Mitharam Handique	mitharam	14-08-2007
	Palash Rabha	prabha	23-08-2007
	Khargeswar Rangpi	rangpi	23-08-2007
	Sasthendra Kumar Nath	sknath	14-09-2009
	Uttam Kumar Nath	uttam	13-06-2009
	Bhaskar Baruah	bbaruah	03-08-2012
<i>Upper division clerk</i>	Dipanjali Sinha	dsinha	28-08-2019
<i>Bearer</i>	Maniram Bania	--	01-01-2008

Research Projects (both Ongoing and New)

Project Title	Funding Agency	Amount (in INR)	Duration	Investigator(s)
Underwater repair and maintenance of corroded steel structure using fiber-reinforced polymer nanocomposites	IITG-TIDF	600000 and one JRF	2024-2026	PI: Dr. Sushen Kirtania Co-PI: Dr. Satadru Kashyap Dr. P. Biswas
Development and Characterization of Thermo-Mechanically Treated Microalloyed 6061Al alloys to Enhance Performance of Underwater Ship Hull	IITG-TIDF	700000	2024-2026	PI: Mr. Rakesh Bhadra Co-PI: Dr. Sanjib Banerjee, Mr. Sanjib Gogoi
Reduction of the sound level during the locking & unlocking operation of small caliber guns.	Defence Research Laboratory, Tezpur	995000	10.01.2024 - 09.01.2025	PI: Dr. Paragmoni Kalita Co-PI: Dr. Seikh Mustafa Kamal
Multi-modal Sensor system for Prosthetic Hand with Embedded Intelligence	BITS BioCyTiH Foundation	26,50,000	2024-2025	PI: Prof. Nayan M Kakoty Co-PI: Dr. Zahnpriya Kalita, Dr. Satyajit Borah, Dr. Ramana Kumar Vinjamuri

Consultancy work (both Ongoing and New)

Project Title	Funding Agency	Amount (in INR)	Duration	Investigator(s)
Radiation calculation to reduce the radius of 90 meter as per OISD 118	IndianOil Petronas Private Limited, LPG Import/ Export Terminal, Haldia, West Bengal	200000	01.06.2023 to 29.05.2024	Principal Consultant: Dr. Paragmoni Kalita Co-Consultant: Prof. Tapan Kumar Gogoi

Publications by Faculty and Staff Members*Publication of Articles in UGC-CARE Listed Group I/Group II Journals*

- Barman, P., Dutta, P. P., Bardalai, M., & Dutta, P. P. (2024). Experimental investigation on bamboo fiber reinforced epoxy polymer composite materials developed through two different techniques. *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*, 238(6), 2185-2204.
- Barpatra Gohain, R. J., Dutta, P. P. (2024). Solar biomass hybrid drying and quality

- evaluation of *Eryngium foetidum* in an innovative newly developed solar dryer. *Solar Energy*, 270:112416. <https://doi.org/10.1016/j.solener.2024.112416>.
- Dutta, P., Das, H., Dutta, P.P. and Kalita, P. (2024). Evaluation of an improved indirect solar dryer for *Curcuma Amada* without and with stone chips as thermal energy storage: An investigation on kinetics, energy, exergy, quality and economic aspects. *Journal of Energy Storage*, 79:110199
 - Deka, M.J., Kamble, A.D., Das, D., Sharma, P., Ali, S., Kalita, P., Bora, B.J. and Kalita, P. (2024). Enhancing the performance of a photovoltaic thermal system with phase change materials: Predictive modelling and evaluation using neural networks. *Renewable Energy*, 224:120091.
 - Equbal, A. and Kalita, P., (2024). Numerical Analysis on the Hemodynamic Effects of Asymmetric Stenosis at High Heart Rate in the Left Coronary Artery Bifurcation. *Applications of Modelling and Simulation*, 8:121-131.
 - Kalita, Z., Kaushik, M., Deb, M., and Barman, K. D. (2024). A mechanism to reduce shoulder strain of backpack wearers. *Journal of Engineering and Applied Science*, 71:165.
 - Barkataki, R., Kalita, Z., and Kirtania, S. (2024). Anthropomorphic design and control of a polycentric knee exoskeleton for improved lower limb assistance. *Intelligent Service Robotics*, 17:555-577.
 - Aziz, F., Kamal, S.M., Perl, M., and Chetry, A. (2024). Increasing the load carrying capacity of hollow rotating disks by applying rotational autofrettage. *European Journal of Mechanics - A/Solids*, 105(0997-7538):105231.
 - Aziz, F., Kamal, S.M., and Dixit, U.S. (2024). Enhancing fatigue life of thick-walled cylinders through a hybrid rotational-swage autofrettage-induced residual stresses. *Journal of Materials Engineering and Performance*, 33:3939–3956.
 - Kalita, Z. and Datta, D. (2024). A constrained multi-objective multi-floor facility layout problem. *International Journal on Interactive Design and Manufacturing*, 18:2597-2608.
 - Haloi, P., Kumar, Ankit., Dutta, J. and Makunike, D. F. (2024). Exergetic Performance Assessment of a Double Flash Geothermal Power Plant in Puga Valley, India. *Renewable Energy Research and Applications*. DOI: <https://doi.org/10.22044/rera.2023.13634.1253>.
 - Bhadra, R., Jana, T., Mitra, A., & Sahoo, P. (2024). Finite element-based indentation contact analysis of SWCNT nano-composite. *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*, 238(4):1125-1141.
 - Bhadra, R., Banerjee, S., Mondal, A. K., Kirtania, S., Kashyap, S., Gogoi, S., Mushahary, S., and Roy, P. (2024) Numerical modeling of dynamic heat flow behaviour during friction stir welding of Al-Cu alloy. *International Journal on Interactive Design and Manufacturing*, 1-16. DOI: 10.1007/s12008-024-01984-y
 - Deka, N. P., Hazarika, K. P., Upadhaya, N., Kashyap, S., Ali, A., Kirtania, S., and Banerjee, S. (2024). Effect of hybridisation on the mechanical and weathering characteristics on jute-arecanut leaf-epoxy composites. *Advances in Materials and*

Processing Technologies. DOI: 10.1080/2374068X.2024.2379080.

- Ali A, Kashyap S and Kirtania S. (2024). Mechanical and thermal characterization of jute fiber reinforced epoxy composites and lime sludge as a filler. *Journal of The Institution of Engineers (India): Series D*. 105(2): 1059-1067.
- Parbin S, Kirtania S, Kashyap S (2024). Investigation on mechanical and biodegradable behaviour of banana/betel nut shell fiber reinforced epoxy composites. *Biomass Conversion and Biorefinery*. DOI: 10.1007/s13399-024-05460-1.
- Kapila, K., Kirtania, S., Devi, L.M., Saikumar, A., Badwaik, L.S. and Rather, M.A. (2024). Potential perspectives on the use of poly (vinyl alcohol)/graphene oxide nanocomposite films and its characterization. *Journal of Food Measurement and Characterization*, 18(2):1012-1025.
- Bhadra, R., Jana, T., Mitra, A., & Sahoo, P. (2023). Effect of CNT radius on flattening contact behaviour of CNT-Al nanocomposite: A numerical approach. *Reports in Mechanical Engineering*, 4(1):121-130.
- Das, M., Kirtania, S., Kashyap, S., and Banerjee, S. (2023). Evaluation of Elastic Properties of Graphene Reinforced Aluminum Matrix Nanocomposites. *International Journal on Materials Engineering Innovation*. (accepted for publication).
- Parbin S, Kirtania S and Kashyap S. (2023). Analytical and finite element analysis of natural fiber reinforced composites for application in food packaging industry. *Journal of The Institution of Engineers (India): Series D*. DOI: 10.1007/s40033-023-00601-8.
- Nandi, A. R., Ali, A., Kashyap, S., Kirtania, S., and Banerjee, S. (2023). Modeling the Mechanical Properties and Stress Mapping of Aluminium Based Metal Matrix Composite Used in Brake Disc Rotor. *International Journal on Materials Engineering Innovation*. Accepted (accepted for publication).
- Borah, C. A., Kirtania, S., Banerjee, S., and Kashyap, S. (2023). Through Thickness Stress Analysis of GNP/Epoxy Nanocomposites with Low Graphene Content. *Journal of the Institution of Engineers (India): Series D*. DOI: 10.1007/s40033-023-00552-0.
- Choudhury, N. D., Saikia, P., Saikia, M., Kirtania, S., Banerjee, S., and Kashyap, S. (2023). Evaluation of Elastic Properties of CNT/GNP/Epoxy Hybrid Nanocomposite for Different Weight Fractions of CNT and GNP. *Journal of the Institution of Engineers (India): Series D*. DOI: 10.1007/s40033-023-00563-x.
- Chetry, A., Kamal, S.M., Mehta, V.K., (2023) A Numerical Model for Rotational Autofretage of Disks Based on von Mises Yield Criterion and its Application in Strengthening Flanged Disks Used for Joining High-Pressure Pipelines, *International Journal of Applied Mechanics*, 15(3):2350022. DOI: <https://doi.org/10.1142/S1758825123500229>.
- Dutta, P., Dutta, P. P., Kalita, P. (2023). Thermal performance study of a PV-driven innovative solar dryer with and without sensible heat storage for drying of *Garcinia Pedunculata*, *Environmental Science and Pollution Research*, DOI:

<https://doi.org/10.1007/s11356-023-27041-x>.

- Dutta, P. P., Borpatra Gohain, R., & Dutta, P. P. (2023). Performance assessment of an efficient biomass fired cook stove as a standby unit for community cooking. *Biomass Conversion and Biorefinery*, 13(13):11609-11620.
- Bareen, A., Dash, S., Kalita, P., and Dash, K. K. (2023). Experimental investigation of an indirect solar dryer with PCM-integrated solar collector as a thermal energy storage medium, *Environmental Science and Pollution Research*, DOI: <https://doi.org/10.1007/s11356-023-26690-2>.
- Dutta, J., Haloi, P., Kumar, A. and Makunike, D.F. (2023). Thermodynamic Analysis of a Single-Flash Geothermal Power Plant in the Puga Valley, India, *Transactions of the Indian National Academy of Engineering*, 9:189-198.
- Dutta, P., Dutta, P.P., Kalita, P. (2023). Energy and exergy study of a novel multi-mode solar dryer without and with sensible heat storage for *Garcinia pedunculata*. *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects*, 45:9266–9282.

Publication of Book Chapters

- Equbal, A., and Kalita, P. (2024). Numerical Analysis to Investigate the Effect of Stenosis Shape on the Hemodynamics of Flow Through a Straight-Cylindrical Artery. In. *International Conference in Fluid, Thermal and Energy Systems* (pp. 109-119). Singapore: Springer Nature Singapore.
- Rajput, M., Kamal, S.M., and Patil, R.U. (2024). Analysis of Thermal Autofretage of Disks Using von Mises Yield Criteria. In: Ray, R.K., Bora, S.N., Maiti DK (Eds). *Advances in Theoretical and Applied Mechanics. ISTAM 2022. Lecture Notes in Mechanical Engineering*. Springer, Singapore. 337-348. https://doi.org/10.1007/978-981-97-0418-7_31.
- Gangmei, G., and Dutta., P.P. (2023). Smart Manufacturing Systems for Industry 4.0." Intelligent Manufacturing Management Systems: Operational Applications of Evolutionary Digital Technologies. In. Ed(s). Muduli, K., Kommula, V. P., Yadav, D.K., Chithirai Pon Selvan M., Kandasamy, J. *Mechanical and Industrial Engineering*. Scrivener Publishing LLC. DOI:10.1002/9781119836780.
- Dutta, P.P., Dutta, P.P., Baruah, M.G. (2023). Design, Development and Analysis of an improved tricycle. In. Ed(s). Ravi Kant, Hema Gurung, Shashikant Yadav. *Sustainable Material, Design, and Process*, CRC Press Boca Raton.
- Bora A.;Kalita A.P.;Bardalai M.;Dutta P.P. (2023). Modeling and Simulation of Plain and Corrugated Shell and Tube Heat Exchanger, In. *Smart Innovation, Systems and Technologies*, 301:163-173. DOI: 2-s2.0-85137581258.
- Dutta, P.P., Gogoi, S., Pramanik, K., Kumar. S., Dutta, P.P., Baruah, M.G. (2023). Design and development of an improved tricycle. In. Ed(s). Ravi Kant, Hema Gurung, Shashikant Yadav. *Sustainable Material, Design and Process: Select Proceeding of 8th International Conference on Advancement and Futuristic Trends in Mechanical and Material Engineering*, CRC Press Boca Raton.
- Dutta, P.P., Chutia, L., Barbara, Banai, K., Das H. Thermal Performance Studies of a V-Type Baffle Absorber Plate Used in a Solar Heater. In. Ed(s). Ravi Kant, Hema

Gurung, Shashikant Yadav. *Sustainable Material, Design and Process: Select Proceeding of 8th International Conference on Advancement and Futuristic Trends in Mechanical and Material Engineering*, CRC Press, Boca Raton

- Sharma, P., Bardalai M., Dutta, P.P., Das. H. (2024). Thermal Performance Study of a Flat Plate Solar Air Heater Using Different Insulating Materials. In. Ed(s): Das, B., Patgiri R., Bondopadhyaya S., Balas, V. M., Roy S., *Select Proceedings: Modelling, Simulation and Optimization:2022*, (pp. 571-584), Springer, Singapore. DOI: 10.1007/978-981-99-6866-4_43
- Dutta, P, Kalita, P., Dutta, P. P. (2024) Numerical Performance Studies of a Single Cylinder Spark Ignition Engine. In. Ed(s): T. S. Sudarshan, A.K. Sharma, R.D. Misra, P. K. Patowari, *Recent Advancements in Mechanical Engineering*, (pp. 115-128), Springer Nature, Singapore. DOI: https://link.springer.com/chapter/10.1007/978-981-97-0900-7_9.

Publication of Articles in Conference Proceedings

- Bhadra, R., Jana, T., Mitra, A., & Sahoo, P. (2024). Contact Analysis of CNT-FGM Nanocomposite Using Indentation Contact Model. In. *Procedia Structural Integrity*, 60:149-164.
- Bhadra, R., Jana, T., Mitra, A., & Sahoo, P. (2024). Unloading Analysis of Functionally Graded Carbon Nanotubes Reinforced Composite (FG-CNT), In. *Proceedings of INCOM 2024*, Jan 5-6, Kolkata, 287-290
- Chakravarty P., Mehta V.K., Kakoty N.M. (2023), Design and analysis of compliant prosthetic finger using stage-flexure systems. In. *Proceedings of the 2023 6th International Conference on Advances in Robotics (AIR-23)*. <https://dl.acm.org/doi/abs/10.1145/3610419.3610449>
- Bhuyan, S. and Basu, D.N. and Mazumdar, S. (2023), Investigation of Natural Convection in Square Cavity Implementing non-Boussinesq Approximation. In. *10th International and 50th National Conference on Fluid Mechanics and Fluid Power (FMFP)* December 20-22, 2023, IIT Jodhpur, India.
- Bora, N., Dutta, P.P., Bhuyan, S., Baruah, M.G. (2023). CFD simulation studies of a solar air heater with double pass configuration using paraffin and metal oxide nano particles as a latent heat storage. In. *ICARGET-2023*, December 11-12, 2023, Guru Ghasidas Vishwavidyalaya, Bilaspur, India.
- Rajput, M., Kamal. S.M., and Patil, R.U. (2023). Residual Stress Analysis in an Infinite Plate with a Central Aperture under Thermal Loading. In *9th International & 30th All India Manufacturing Technology, Design and Research Conference (AIMTDR2023)*, December 8–10, 2023, IIT (BHU), Varanasi, India.
- Datta, D., Saikia, A., Kalita, Z., and Saikia, S. (2023). A Saddle System for Female Bicycles Adapted to Counter Forward Slip of Rider on Saddle Surface During Sudden Braking, Patent No. 478941 (India)
- Datta, D., Saikia, S., Kalita, Z., and Saikia, A. (2024). System for Enhancing Stability of Bicycle by Steering Back Handlebar Automatically, Patent No. 535873 (India)

Conference/Workshop/Symposium/Seminar etc. Attended

Name of Faculty/Staff Member	Purpose of Attending	Title of Event	Date/Period	Organizer and Venue (Online/Offline)
D. Datta	Paper presentation	6th National Conference on Multidisciplinary Design, Analysis and Optimization (NCMDAO 2023)	08 Dec., 2023	IIT Guwahati
Dr. Prabin Haloi	Participant	Faculty Development Programme on Entrepreneurship Development	July 3-7, 2023	NITTTR Kolkata (Offline)
Dr Barnali Chowdhury	Participant	6th One-Week National Workshop on Emerging Tools and Technologies in Research (ETTR-2023)	20- 24 November 2023	Department of Information Technology, Tripura University
Dr Barnali Chowdhury	Participant	Short Term Course on NEP Orientation & Sensitization Programm	19- 28 February 2024	MMTTC , Tezpur University
Dr Barnali Chowdhury	Participant	Elements of style in Technical Communication	3 February 2024	Department of Mechanical Engineering, Tezpur University
Dr Barnali Chowdhury	Participant	Recent trends and future perspectives in the Energy sector: Way forward for Engineering Education	2 March 2024	Department of Mechanical Engineering, Tezpur University
Dr Barnali Chowdhury	Participant	Emerging Aspects in Mechanical Engineering Research and Their Applications (EAMERA-2024)”	29April–03 May 2024	Department of Mechanical Engineering, NIT Manipur
Dr. Sanjib Banerjee	Industry-Academia conclave (participant)	Recent trends and future perspectives in the Energy sector: Way forward for Engineering	2 March, 2024	Department of Mechanical Engineering, Tezpur University

		Education		
Dr. Sanjib Banerjee	Workshop (participant)	Elements of style in Technical Communication	3 rd February, 2024	Department of Mechanical Engineering, Tezpur University
Dr. Sushen Kirtania	To acquire knowledge on NEP	Short Term Course on NEP Orientation & Sensitization	4 - 13 December 2023	Tezpur University, MMTTC
Dr. Satadru Kashyap	To acquire knowledge on NEP	Short Term Course on NEP Orientation & Sensitization	4 - 13 December 2023	Tezpur University, MMTTC
Dr. Satadru Kashyap	To acquire knowledge on ML	Fundamentals of Machine Learning	11 - 15 March, 2024	NITTTR Kolkata
Dr. Satadru Kashyap	To acquire knowledge on Pedagogy	Advanced Pedagogy	15 - 26 January, 2024	NITTTR Kolkata

Invited Talk

Name of Faculty Member	Title of the Talk	Title of the Event	Date	Organizer and Venue (Online/Offline)
D. Datta	Evolutionary Algorithms - An Overview	AICTE Training and Learning (ATAL) academy sponsored Faculty Development Program on Computational Intelligence for solving complex engineering problems using Python	31 Oct., 2023	NERIST, Nirjuli (Offline)
D. Datta	Applied Computational Methods - An Overview	AICTE Training and Learning (ATAL) academy sponsored Faculty Development Program on Computational Intelligence for solving complex engineering problems using Python	31 Oct., 2023	NERIST, Nirjuli (Offline)

D. Datta	Technical Document Writing using LaTeX & Good Ethical Practices in Research and Publication	OHEPEE-IDP Sponsored 3-Days Workshop on Technical Document Writing using LaTeX & Good Ethical Practices in Research and Publication	02-04 Nov., 2023	Maharaja Sriram Chandra Bhanja Deo University (MSCBU), Baripada, Odisha (Offline)
D. Datta	Guidelines for thesis writing and its preparation in LaTeX	Guidelines for thesis writing and its preparation in LaTeX	15 Nov., 2023	T&P Cell, Tezpur University (Offline)
D. Datta	Technical Document Writing using LaTeX & Ethical Practices in Research and Publications	DST PURSE Sponsored 5 Days Workshop on Technical Document Writing using LaTeX & Ethical Practices in Research and Publications	11-15 Dec., 2023	BIT Mesra (Offline)
D. Datta	Scientific Document Preparation using LaTeX and Research Ethics	5 Days Workshop/ Hands Training on Scientific Document Preparation using LaTeX and Research Ethics	08-12 Jan., 2024	ICAR- Central Institute of Fisheries Education, Versova, Mumbai-61 (Offline)
D. Datta	Scientific Document Writing using LaTeX Awareness Programme on Research and Publication Ethics	5 Days Workshop on Hands-on Training on Scientific Document Writing using LaTeX Awareness Programme on Research and Publication Ethics	19-23 Mar., 2024	IQAC (In collaboration with MMTTC), Tezpur University (Offline)
D. Datta	Scientific Document Writing using LaTeX	15 Days (Online) Workshop on Hands-on Training on Scientific Document Writing using LaTeX	03-19 Jun., 2024	Scholarsight Technologies Pvt. Ltd., Delhi-93 (Online)

Awards/Honours/Notable Achievements

Name of Awardee	Designation of Awardee	Achievement	Event/Awarded by
Dr. Satadru Kashyap	Assistant Professor	Faculty Award 2023 for contributions to Academia & Materials Engineering at the Academic Excellence Symposium	Research Nexus

Number of Students Qualified in NET-JRF/SLET/GATE etc.

Name of Qualifying Examination	Number of Qualified Students	Academic Programme
<i>GATE</i>	02	B.Tech

Notable Placement of Students

Name of Student	Academic Programme	Placement Designation	Company/ Organization	Mode of Selection
Akash Bhattacharyya	B.Tech	Graduate Engineer Trainee	Gulf Asia	Off campus
Eluganti Sai Pavan	B.Tech	Graduate Engineer Trainee	Gulf Asia	Off campus
Ranaditya Sandilya	B.Tech	Graduate Engineer Trainee	L&T	On campus
Ashif Zamal Ahmed	B.Tech	Graduate Engineer Trainee	L&T	On campus
Jnandeep Saikia	B.Tech	Graduate Engineer Trainee	L&T	On campus
Tulak Chowdhury	B.Tech	Graduate Engineer Trainee	L&T	On campus
T Naveen Kumar	B.Tech	Graduate Engineer Trainee (Sales)	Sanmar Group	On campus
Rishav Baruah	M.Tech	Probationary Officer	ESAF Small Finance Bank	Off campus

Enrollment of Students in other Institutes for Higher Studies

Name of Student	Academic Programme (in TU)	Name of other Institute	Enrolled Academic Programme
Chetan Sharma	B.Tech	IIT Gandhinagar	PhD
Md. Riaz Ali Mamud	B.Tech	IIT Gandhinagar	PhD
Pratham Mahendra Kamble	B.Tech	Hong Kong University of Science and Technology	MS (Aerospace)
Nihal Das	B.Tech	Tezpur University	M.Tech
Nikunja Narayan Kumar	M.Tech	Tezpur University	PhD

School of Humanities and Social Sciences

- *Report of the Dean, School of Humanities and Social Sciences*
- *Department of Assamese*
- *Department of Hindi*
- *Department of Cultural Studies*
- *Department of Education*
- *Department of Foreign Languages*
- *Department of Law*
- *Department of Linguistic and Language Technology*
- *Department of English*
- *Department of Social Work*
- *Department of Sociology*
- *Department of Mass Communication and Journalism*

REPORT OF THE DEAN, SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

About the School

While each Department and Centre under the School pursues its designated M.A., PhD, Diploma or Certificate programme, with specific thrust areas, there are some common areas of study and research which highlight the School's shared interests and goals:

- Society and Culture
- India Studies
- Migration Studies
- Gender Studies
- Translation and Translation Studies
- Environmental Ethics
- Social Systems, Institutions and Movements
- Literature
- Film Studies
- Lexicography
- Ethnography
- Traditional Knowledge Systems

Apart from these broad areas, most of the departments address at some level issues of gender, old age, disability, community health (mental and physical), environmental issues, issues pertaining to Dalit and tribal communities through outreach programmes as well as part of academic discourse.

As per NEP2020 requirements, the FYUGP in HSS was started from Autumn 2023 with Major in English and Minors from Cultural Studies and Sociology. To support this programme various Departments from within the School of HSS as well as from the Schools of Engineering, Management Sciences and Sciences have designed and are offering courses to meet the requirements of MDC (Multidisciplinary Course), SEC (Skill Enhancement Course), VAC (Value Added Course) as well as AEC (Ability Enhancement Course in MIL and English). These Courses can be opted for by students from FYUG programmes in different disciplines. For the first two semesters VAC courses of 2 credits each are in Environmental Studies. Only in the third semester can the students choose from the basket of other VACs on offer.

Regarding AECs students have to take 2 courses of 2 credits each in English and in MIL. Students taking a course in English Communication in the first semester have followed it up with a second English Communication course in the next semester. Similarly, Students opting for MIL in either Assamese or Hindi have followed it with another course in the same language. These students will change their AEC from English to MIL and vice versa in the third semester and complete the required credits ($2+2 \times 2=8$) in the fourth semester.

Students in the FYUGP required to take three MDCs of 3 credit each (one per semester) within the first two years, have successfully earned credits for two courses in the first two semesters. The School of HSS offers MDCs in subjects ranging across Law, Linguistics, Film Studies, Cultural Studies, Gender Studies, Education, Sociology and Social Work.

Students can opt for MDC courses offered by other schools as well.

SEC or skill enhancement courses—offered by all four Schools—are another vital part of the FYUGP. The courses range from Cultural Heritage Management to Foreign Languages and Linguistics to Business Communication, Bioinstrumentation and Electrical Wiring (the last three offered by Schools of Management Sciences, Sciences and Engineering).

The main programme of M.A. offered by ten departments and PhD by as many of them provide the backbone of the School of HSS. Apart from M.A. the Dept of Education has a very competitive B.Ed programme along with the B.Sc-B.Ed programme. The Dept of Foreign Languages does not offer M.A. or Ph.D programmes. The number of Ph.Ds produced by the School in the last year is quite satisfactory. After implementation of the FYUGP, the School of HSS is structuring its M.A. programmes to accommodate research in varying credits in the one-year M.A. as per the recommendations of the UGC Curriculum Framework.

Important Activities

- National and International Seminars; as well as Webinars; Invited Lectures, in most of the Departments under the School of HSS
- Outreach Programmes by the Dept. of Cultural Studies, Dept of Social Work, Dept of Sociology, Centre for Inclusive Development, Women Studiers Centre , Dept of MCJ and Dept of Law
- Sensitization programmes on Gender, Health and Hygiene, Substance Abuse and Mental Health, Good Academic Practices by the Dept. of Cultural Studies, Dept of Education, Dept of Social Work, Women Studiers Centre and the CID, Human Rights Awareness by the Dept of Law.
- Field Study trips to places of historical, cultural and ethnographic interest
- Celebration of special days like International Women's Day; Social Work Day; Heritage Day; Mother Language Day; Press Freedom Day; National Education Day; Constitution Day.

Officers and Staff Members

Designation	Name	<email> @tezu.ernet .in	Date of holding the current position
<i>Dean, School of HSS</i>	Farheena Danta	fdefl	01-01-2022
<i>Office Assistant (shared with Sociology)</i>	Amarjyoti Bharali	amar	
<i>MTS</i>	Tanka Bahadur Chetri		

DEPARTMENT OF ASSAMESE

About the Department

The Department of Assamese, established in 2019, is a new department. However, it may be said that it began when the Centre for Assamese Studies was established in 2011. The primary aim of the Centre was to undertake and foster research in the Assamese language and culture, and one of its achievements was the creation of an extensive digital archive of Assamese manuscripts, books, and important documents, from the medieval period to the modern. The present Department incorporates such existing facilities.

In view of the paucity of standard texts of the classical and canonical works of Assamese literature (for example, the works of Madhava Kandali and Sankaradeva, Madhavadeva, Rama Saraswati and others), including concordances to the major works of Assamese literature, the Department's first programme, the post-graduate degree programme in Assamese incorporates courses in textual criticism/text-critical studies and digital humanities. Textual criticism/text-critical studies and digital humanities have also been identified as the thrust areas in research.

Academic Programmes and Student Intake

Academic Programme	Student Intake
<i>M.A. in Assamese</i>	20
<i>Ph.D. in Assamese</i>	Variable 06 in 2023-24

Thrust Research Areas of the Department

- Assamese Language, Literature and Culture
- Textual criticism
- Digital Humanities
- Translation Studies
- Film Studies
- World Literature

Major Facilities/Equipment available

- Departmental Library
- Digital Archive

Faculty Members

Designation	Name	Highest Qualification (Institute)	Specialization	<email> @tezu.ernet.in	Date of holding the current position
<i>Associate Professor</i>	Subrat Jyoti Neog	Ph.D. (Gauhati University)	Assamese Literature, Film Studies, Theatre Studies, Stylistics, Creative Writing (Play and Screenwriting)	subrat	13-02-2020
<i>Assistant Professor and Head of the Department</i>	Juri Dutta	Ph.D. (Rajiv Gandhi University)	Regional Literatures, Comparative Literature and Translation, Literary Theory and Creative Writing	juri	06-09-2016
<i>Assistant Professor</i>	Sanjib Deka	Ph.D. (Gauhati University)	Study of Assamese Language, Medieval Assamese Language, Assamese Morphology, Nineteenth Century Assam, Printing History, Creative Writing	sanjibd	20-02-2020
<i>Assistant Professor</i>	Jyotishman Das	M.Phil. (Dibrugarh University)	Modern Assamese Literature, Creative Writing, Life	Jyotish	24-02-2020

			Writing, Travel Writing		
<i>Guest Faculty</i>	Bhaskar Bhuyan	MA North (Lakhimpur College)	Modern Assamese Literature, Comparative Literature, Language Digitalization	—	06-02-2024
<i>Guest Faculty</i>	Pinkymoni Gayan	MA (Tezpur University)	Morphology, Computational Linguistics, Semantics, Cognitive Linguistics	—	06-02-2024

Officers and Staff Members

Designation	Name	<email>@tezu.ernet.in	Date of holding the current position
<i>Technical Staff</i>	Chandrasekhar Roy	Chaser	21-10-2019
<i>MTS</i>	Malati Boro		08-02-1996

Research Projects (both Ongoing and New)

Project Title	Funding Agency	Amount (in INR)	Duration	Investigator(s)
Mapping Textual Traditions of Bargita: Manuscript to Print (Minor Research Project)	Indian Council of Social Science Research	9.86 Lacs	1 year	Dr. Sanjib Deka

Publications by Faculty and Staff Members

Books

- Deka, S. (Co-author). *Print Modernity in Colonial Assam*, Lexington Books, Rowman & Littlefield Publishing Group, Inc., December 2023
- Deka, S. (Ed). *Aalaap*, (a bi-yearly Journal), Bandhav, Guwahati, November 2023
- Dutta, Juri. *Sirar Babe Ejopa Haladhiya Sonaru* (Trans. of English short story book *Laburnum for My Head* by Temsula Ao). Purbayon Publication, Guwahati, 2023.
- Neog, S. J. *Sankha Ninad Aru Anyanya Natak* (A collection of five Assamese plays), Assam Book Trust, Guwahati, December 2023.

Publication of Articles in UGC-CARE Listed Group I/Group II Journals

- Dutta, J. (2024). Khudra Brittantar Surukia Batere Kahinir Sandhan (The Search of a Story Through the Narrow Path of a Mini Narrative) in *Satsari*, 19 (10): 100-104
- Dutta, J. (2023). Sahityat Atmaparisayar Cetana: Arupa Patangia Kalitar *Felanee* (Identity Consciousness in Literature: Arupa Patangia Kalita's *Felanee*) in ANVIKSA (Vol-VIII): 42-48
- Dutta, J. (2023). *Kori Khelar Sadhu*: Ek Uttar Adhunik Pathan (Kori Khelar Sadhu: A Post-Modern Reading) in *Satsari*, 18 (12): 105-108
- Neog, S. J.(December 2023), "From Page to Screen: A Study on Screen Adaptations In *Anvesan*, Journal of Dept. of Assamese, Gauhati University.
- Neog, S. J. (June, 2023). "Ekabinsa Satikar Asamiya Natak Mahabharatar Kathabastur Punarnirman", *Satsori*.

Publication of Book Chapters

- Das, Jyotishman (2023). *Bahagir Esha Basar*(1923-2023): Bihunamar Sahitya Marjada Praptir Itihasar Esoa (Hundred Years of *Bahagi*) In *Basanta Utsav Rangali* (a book of research-based articles), Ministry of Cultural Affairs, Govt. of Assam, pp. 116-120.
- Das, Jyotishman (2024). Sakale Pranika Dekhibeka Aatma Sama: Pariparcha-Addhyatmikata aru Kabi Sankaradeva (Eco-Spirituality and Kabi Sankaradeva), In Dipak Bora and Rupam Dutta edited. *Sewa Rasa Saar*, Celebration Committee of Birth Anniversary of Sankaradeva, Pathalipahar, Lakhimpur, pp. 143-145.
- Dutta, J. (2023). Phato Bihu of Dhakuakhana: An Attempt to Rediscover and Re-establish Identity. In Sarit Kumar Choudhuri edited *People's Art of Northeast India: History, Identity and Emerging Realities*. Indira Gandhi Rashtriya Manav Sangrahalaya: Bhopal. pp. 51-66.
- Neog, S. J.(2023) "Ekabingsa Satikar Asamiya Calachitrar bisaybastu", In Jyotirmoyee Bhattacharjee edited *Ekoish:Bhasa-Sahitya-Sanskriti*, D.R. College Publication.
- Neog, S. J. (2023). Seuji Adhyayanar Alokak Sampratit Asamiya Natak, In Daisy Rani Deka edited *Sampratit Asamiya Sahityar Adhyayana*, Purbayon Publication.

Publication of Articles in Other Forms

- Das, Jyotishman (October 2023). “Gowahe Ebar Mor Priya Bihangini: Pariparcha Samalocana, Romantikatabad aru Raghunath Chaudharir Kabitar Puna:pathan” (Ecocriticism, Romanticism, and re-reading of Raghunath Chaudhury's poetry), In Mridul Sarmah edited *Anyayug* (<https://www.anyayug.com>)
- Das, Jyotishman (January 2024), “Rhiju-Bakra Path” (A Short Story), In Abhijit Bora and Priyam D Jyotshna edited *Natunar Galpa*, Purbanchal Prakashan, Guwahati, pp. 86-98.
- Deka, S. (November 2023), Likhan Parampara, Maukhikata aru Print: Ek Dharan Hisape Bargitar Utthan” (Writing Tradition, Orality and Print: Emergence of Bargita as a Genre), In *Alok*, Vol. XV, No. XV, Journal on Language, Literature and Culture, Department of Assamese, B. Borooah College, Guwahati. ISSN: 2250-124X
- Dutta, J. Translated “Paridarshan Pratibedan” (a short story titled Inspection Report) originally written in Manipuri by Lamaabam Virmani and translated into English by Robin S. Ngangom) into Assamese in In *Gariyoshi* (ISSN 2349-5324), XXXI (9). 2024. Pp 79-83
- Dutta, J. Translated “Saralatar Sukia Rup” (a short story titled Innocence Wears Another Look, originally written in Mizo by Vanneihluanga and translated into English by Margaret Zama) into Assamese in In *Gariyoshi* (ISSN 2349-5324), Vol. XXX, Issue No. 12. October 2023. Pp 91-93
- Dutta, J. A short story “Tips” (Tips) in *Prakash*. (May, 2024) Third Phase: 144, Pp 53-56
- Dutta, J. A short story “Boiragya Bishad” in *Prantik*. (16-30 November, 2023) Vol. XLII, No 24, Pp 54-56
- Dutta, J. A short story “Benguniya Kanchanar Akash” (The Sky with Violate Kanchan Flower) in *Prakash*. (February 2023) Third Phase: 129, Pp 70-73
- Neog. S. J. “A creative Journey- A article on Arun Sarma Studies: Some new thoughts” in *The Assam Tribune*. December 2, 2023.
- Neog. S. J. “Manju Borah’s Ko:Yad”, *Citra-Cinta* (A Journal of Guwahati Cine Club), 2023.
- Neog. S. J. “Prapti-Aprapti”, All India Radio, Guwahati has broadcast the play on October 26, 2023
- Neog. S. J. “Tradition of Theatre History, archive, and Assamese Drama”, In *Natghar*, Assam Natya Sanmilan, January 2024
- Neog. S. J. “The film, the pioneer”, *The Assam Tribune*, March 17, 2024
- Neog. S. J. “From Page to Screen: A study of on-screen adaptation from Assamese Cinema”, *E-Cine India*, March 2024
- Neog. S. J. “Mukti”, Stage performance by Tezpur University’s Students on March 26, 2024

Conference/Workshop/Symposium/Seminar etc. Attended

Name of Faculty/ Staff Member	Purpose of Attending	Title of Event	Date/Period	Organizer and Venue
Juri Dutta	Paper Presentation	Tribal Literature and Translation: Processes, Problems and Possibilities	20-22 March, 2024	Department of Comparative Indian Language and Literature, University of Calcutta in collaboration with the Indian Council of Social Science Research (ICSSR-ERC)
Juri Dutta	Paper Presentation	Issues of Land and Forest in the Malayarayar Community: Reading Through Literature	1 st November 2023	University of Jambi, Indonesia
Juri Dutta	Paper Presentation	Assamese Children Literature: Changes, Challenges and Possibilities'	October 7, 2023	Sahitya Akademi in collaboration with Dispur College
Juri Dutta	Participant	Workshop on "Role of Technical Terminology in the Development of Higher Education"	14-15 March, 2024.	CSTT, New Delhi at Dept. of Hindi, Tezpur University
Jyotishman Das	Paper Presentation (Title of the Paper: "Ecofiction in Contemporary Assamese Literature: Catalyst for Sustainable Development")	International Seminar on "Programming Futures Through Sustainable Development Goals(SDGs)"	29-30 December, 2023.	Damdama College, sponsored by ICSSR, New Delhi

Jyotishman Das	Participant	Workshop on “Role of Technical Terminology in the Development of Higher Education”	14-15 March, 2024.	CSTT, New Delhi at Dept. of Hindi, Tezpur University
Sanjib Deka	Participation in Conference	Discussion on ‘Identity Politics’	20 August, 2023.	Natun Sahitya Parishad , Guwahati
Sanjib Deka	Participation in Conference	Yuva Sahiti— Short Story Readings, International Literature Festival	3-6 August 2023.	Sahitya Akademi, New Delhi at Bhopal, Madhya Pradesh
Sanjib Deka	Paper Presentation	<i>Text and Tradition of Bargita</i> ” at National Seminar on “A Study of Literature and Culture during Maharaj Naranarayan,”	24 December 2023	Madhupur Satra Samiti and Sahitya Charcha Kendra, Kochbehar
Subrat Jyoti Neog	Participant	Workshop on “Role of Technical Terminology in the Development of Higher Education”	14-15 March, 2024.	CSTT, New Delhi at Dept. of Hindi, Tezpur University

Invited Talk

Name of Faculty Member	Title of the Talk	Title of the Event	Date	Organizer and Venue
Juri Dutta	Pragyaar Sadhak Homen Borgohain (Homen Borgohain: The Worshipper of Wisdom)	Death anniversary of Homen Borgohain	12 May 2024	Sonitpur District Branch of 'Karunadhara', Tezpur
Juri Dutta	Birendra Kumar Bhattacharyya ar Sristit Samaj Setana (Birendra Kumar Bhattacharyya and Social Consciousness in His Writings)	Birth Centenary celebration of Dr Birendra Kumar Bhattacharyya	6 April 2024	Padmanath Gohain Baruah Sakha Sahitya Sabha, Tezpur
Juri Dutta	Bisnuprasad Rava	Death anniversary of Bishnuprasad Rava	20 June 2024	Pachim Gabharu Anchalik Siksha Unnayan Samiti and the Volunteer organization 'Dristanta' at Gawoimari
Juri Dutta	Translation of Literary Texts	Invited Talk	20 September 2023	Department of Linguistics and Language Technology, Tezpur University
Juri Dutta	Translating Fiction from/into English:	Translation Workshop	23 March 2023	Department of English, Tezpur University

	Challenges and Prospects			
Juri Dutta	Stereotyping of Indigenous Community in Literature: Defamiliarizing and Othering of Identities	Tribal Literature & Tribal Representation in Literature	03 June, 2023	www.tellmeyourstory.biz under TMYS in collaboration with Centre for Asia Pacific Initiatives (CAPI), University of Victoria
Juri Dutta	Ethnicity and Ethnic Representation in Literature	A Special Lecture	31. July 2023	A research colloquium organized by SNDT Women's University, Mumbai on
Jyotishman Das	Nineteenth-Century Assam and the Evolution of Modern Assamese Thought	Invited Talk	6 November, 2023	Dhing College, Nagaon
Jyotishman Das	Sonic Nationalism and Assamese Identity: Exploring Bhupen Hazarika's Musical Legacy	Dr. Bhupen Hazarika's 97th Birth Anniversary	8 September, 2023	Office of the Cultural Dev. Officer, Jyoti Bharati(Poki), Tezpur
Jyotishman Das	Historical Writings of Bishnu Prasad Rabha	Bishnu Rabha Divas	20 June, 2023	Sonitpur District Sahitya Sabha
Jyotishman Das	Bihu Culture during the Colonial Era in Assam	Invited Talk	21 April, 2023.	The Bihu Sanmilan of Bardobia, Sonitpur

Sanjib Deka	Bargitar Path Parampara (Textual Tradition of Bargita)	Narendra Deva Shastri Memorial Lecture	10 December, 2023.	Sonitpur Press Club, Tezpur Sahitya Sabha Bhawan, Tezpur
Sanjib Deka	Lecture on Sahityarathi Lakshminath Bezbaroa	Kehokoli Event on Lakshminath Bezbaroa's 159th birth anniversary	16 October, 2023.	Tezpur University Students Council
Sanjib Deka	Lecture on Sahityarathi Lakshminath Bezbaroa	Sahitya Divas, Lecture on Sahityarathi Lakshminath Bezbaroa	14 October, 2023.	Axam Jatiya Vidyalay, Noonmati, Guwahati
Sanjib Deka	Lecture on Jyotiprasad Agarwala	120th Birth Anniversary of Jyotiprasad Agarwala	17 June, 2023	Jyoti Bharati (Poki) and Sadau Asam Kabi Sanmilan
Sanjib Deka	Asamar Prabajan, Bhumi Prasna aru Nimnabarga: Parivartita Brittantar Ruprekha	Hemanta Kumar Baruwa Endowment Lecture	05 April, 2023	Lakhimpur Commerce College, North Lakhimpur
Dr. Subrat Jyoti Neog	Modernism and Arun Sarma	Modernism and Arun Sarma	November 03, 2023	Centre for Performing Arts and Culture, Gauhati University in collaboration with Arun Sarma Theatre and Remembrance Trust

Dr. Subrat Jyoti Neog	Transforming Literature into Films: How to read merits of a film”	workshop on Film Criticism	July 20, 2023	Organized by Gauhati Cine Club
Dr. Subrat Jyoti Neog	From Page to Screen: A deliberation in the light of Adaptation Theory	Refresher course on “Translation Studies and Assamese Literature”	February 06, 2023	Organized by UGC-HRDC, Gauhati University
Dr. Subrat Jyoti Neog	Writing screenplay and theatre script-A promising area for skill development	Invited Talk	November 11, 2023	organized by Pachim Guwahati College
Dr. Subrat Jyoti Neog	Text, Performance, theatrical space and spectatorship	Swayam Theatre Symposium	September 09, 2023	Organized by Jirsong Theatre, Guwahati
Dr. Subrat Jyoti Neog	Kothanodi, Bezbaroa and Burhi Aair Xadhu	Kehukoli , On the occasion of the 159 th birth anniversary of Lakshminath Bezbaroa	October 16, 2023	Tezpur University Students’ Council
Dr. Subrat Jyoti Neog	Jyotiprasad and Joymati	Celebration of	January 17, 2024	Tezpur University Students’ Council

		Shilpi Divas		
Dr. Subrat Jyoti Neog	Performance Space and Modern Assamese Theatre	Rupkonwar Theatre Festival	March 16, 2024	Sankardeva Kalashetra Sama at Nalbari college
Dr. Subrat Jyoti Neog	Ankiya Bhaona: Its Impact on Modern Assamese Theatre	14th Ankiya Bhaona Samaroh	March 18, 2024	Sangeet Natak Akademi at Mangaldoi

Other Significant Activities of the Department

- **May 29 - June 3, 2023:** Theatre Workshop (Resource Person: Gunakar Dev Goswami)
- **June 2, 2023:** Interactive session with Jayanta Madhab Bora, Eminent Assamese Writer
- **September 15, 2023:** Shankardeva Tithi Celebration: Lecture on ‘Sankaradeva and the Formation of Assamese Nationality’ by Prof. Chandan Kumar Sharma, Tezpur University
- **September 20-24, 2023:** Four-day workshop on “Pre-Modern Assamese Manuscript Reading and Textual Criticism”
- **September 27, 2023:** Symposium on ‘Assamese Drama: Text and Performance’ in collaboration with Indira Gandhi National Centre for Arts, Ministry of Culture, Govt. of India.
- **October 16, 2023:** Lecture by Dr. Tonisha Guin on ‘Understanding Digital Archiving from the Global South’
- **October 18, 2023:** Lecture by Dr. Ratnottama Das Bikram, Delhi University on ‘Beyond Untranslatability: A Deliberation’
- **November 1, 2023:** Lecture by Professor Arjun Ghosh, IIT-Delhi on ‘Doing Digital Transformation: Challenges before the Indian Language’
- **November 1, 2023:** Lecture by Dr. Pori Hiloidari on ‘New Historicism’
- **November 28, 2023:** Lecture by Dr. Pranjal Sharma Bashishtha, Gauhati University on ‘Modernism’
- **February 29, 2024:** Lecture by Dr. Pranjal Sharma Bashishtha, Gauhati University on ‘Post-Modernism’

- **December 14-28, 2023:** Online Refresher Course on ‘Literature, Language, and Culture in the Digital Age’
- **March 8, 2024:** Celebration of International Women’s Day
- **March 5, 2024:** Field Study and Extension Activity and Deithor, Karbi Anglog (Topic of Study: “Socio-cultural Life of Karbis”)
- **February 20, 2024:** Invited Lecture by Dr Ananda Bormodoi, Eminent Writer and Critic on “Modern Assamese Literature”
- **February 21, 2024:** Celebration of International Mother Language Day in collaboration with Dept. of Education and Dept. of Hindi
- **February 28 to March 3, 2024:** Theatre Workshop (Resource Person: Gunakar Dev Goswami)

Number of Students Qualified in NET-JRF/SLET/GATE etc.

Name of Qualifying Examination	Number of Qualified Students	Academic Programme
<i>NET</i>	18	MA

DEPARTMENT OF HINDI

About the Department

The Department of Hindi was established in January 2010, and it started an MA program in Hindi from 2013. At present, the Department also runs the following programs: Post-Graduate Diploma Program in Translation (Hindi), Hindi as a Modern Indian Language (MIL), and Ph.D. in Hindi literature/language). In addition, the Department also runs a Certificate Course in Official Hindi (Level-1) for the employees of the University.

Academic Programmes and Student Intake

Academic Programme	Student Intake
<i>Certificate Course</i>	10
<i>PG Diploma in Translation</i>	31
<i>MA in Hindi</i>	31
<i>Ph.D.</i>	Variable

Thrust Research Areas of the Department

- Modern Hindi Literature
- Fiction
- Poetry
- Bhasha Vigyan
- Indian & Western Poetics
- Folk literature
- Hindi Journalism

Faculty Members

Designation	Name	Highest Qualification (Institute)	Specialization	<email >@tezu.ernet.in	Date of holding the current position
	Suryakant Tripathi	Ph.D. (BHU)	Applied Linguistics, Indian Poetics, Folkloristic	sktripathi	28-05-2018
	Pramod Meena	Ph.D. (IGNOU)	Dalit-Tribal vimarsh, Street Theater,	pmeena	07-06-2022

			cinema studies, Media		
<i>Associate Professor</i>	AnjuLata	Ph.D. (TU)	Modern Poetry, Katha Sahitaya, Adhunik Sahitay, Subaltern writing in Hindi	anju	18-11-2019
	Anushabda	Ph.D. (DU)	Linguistics, Media, Poetry, Indian and Western Poetics.	anush	20-02-2012
	Pramod Kumar Sharma	Ph.D. (University of Hyderabad)	Medieval Poetry	pramods	25-11-2019
	Shipra Shukla	Ph.D (Ambedkar university of Delhi)	Modern Hindi Literature.	shipras	02-12-2019
	Goma Devi Sharma	Ph.D. (MU)	Adhunik Hindi Sahitya, Folk Literature, Comparative Study	<u>goma008</u>	25-10-2023

Officers and Staff Members:

Designation	Name	<email>	holdingthecurrentposition
<i>Assistant</i>	Sashi Ingti	Ingti	01-01-2018
<i>MTS</i>	Ajoy Kr. Nath	Ajoy	08-05-2017

Publications by Faculty and Staff Members

Publication of Articles in UGC-CARE Listed Group I/Group II Journals

- Meena, Pramod (2023). 'Brahmanwadi Punjiwad Ko Chinhit Karta Naxlwadi Hinsa-Prati hinsa Ka dalit Pariprekshya'. *Satrachee*, 39:7-12.
- Meena, Pramod (2023). 'Dalit Vimarsh Ke Pariprekshya Mein Parasai'. *Banas Jan*, 62: 360-370.
- Meena, Pramod (2023). 'Sankat Men UGC'. *Sablog*, 19-21.
- Meena, Pramod (2023). 'Madhyamgat Bhinnata Aur Sahitya_Cinema Sambandh'. *Himanjali*, 28: 128-131.
- Meena, Pramod (2023). 'Samaan Naagarik Sanhita Aur Aadiwasi'. *Samayantar*, 8:23-25.
- Meena, Pramod (2023). 'Dand Vyavastha Ko Nyay Vyavastha Men Badalane Ki Aadhi Adhuri Kavayad'. *Samayantar*, 10:14-17.
- Meena, Pramod (2023). 'Hinduttavavaadi Rajneeti Se Takarati Janagananaa Ki Pukar'. *Samayantar*, 11:40-41.
- Meena, Pramod (2023). 'Dalit Panthar Aur Hindi Cinema'. *Samay Sanjyan*, 5:10-12.
- Lata A. (2024). 'Shankardev Ke Kavaya Ka Stri Paksh', *Apni Mati* 50.
- Anushabda.(2023). "Bhakt hue, uthagae yon Ram se bhi, upar...", *Dwibhashi Rashtrasewak*, 03: 05-11.
- Sagar, N. & Anushabda. (2023). "Bharat mein bhasha chintan ki parampara aur *Dr. Ramvilas Sharma*", *Gaveshana*, 133:42-48.
- Mallah. M. & Anushabda. (2024). "*Vigyapan ka bhashik evam sanskritik pariprekshya*", *Dwibhashi Rashtrasewak*, 11:20-25.
- Shukla, S.(2023). "Viklaang Kendrit Hindi Upanyason Mein Viklaangon Ki Arthik Dasha", *Padchinh*, 02:166-170.
- Shukla, S.(2024). "Hasiye Ka Samaj Aur Kinnar Samuday: Samajik Swikaryata Ka Prashan", *Sanshodhak*, 53:27-29.
- Sharma, Goma D- (2024). "Nirgun Bhakti Ke Vahak : Kabeerdaas aur Gyandildas" (Tunatmak Adhyayan) - *Juni Kyat*. 14: 79-85.
- Sharma, Goma D-(2024). "Bharatiya Nepali Baal Sahitya" *International Journal of Creative Research and Thoughts (IJCRT)*. 12: 625-632.
- Sharma, Goma D (2024)- "Rashtriya Ekta me Manipur ka Yogdan"- *Juni Kyat*. 14:12-17.
- Sharma, Goma D (2024). "Bharatiya Nepali Santa Kavya Parampara"- *Dwibhashi Rashtra Sewak*, 11: 50-55

Publication of Books:

- Sharma, Goma D (2023) *Nari Sarjak*, ISBN -978-93-95502-15-3, Gorkha Jyoti Prakashan, Manipur.
- Sharma, Goma D (2024) *Ishan Prabha* (Edited), ISBN.978-93-95502-81-8, Gorkha Jyoti Prakashan, Manipur.

Publication of Book Chapters:

- Meena, Pramod (2023). Adivasi Jeevan Darshan Ki Kavitaen. In Badaaik, Savitri editor, Disum Ka Shringar, Pages7-8, Anugya Books, Delhi
- Meena, Pramod (2023).Gayab Hote JeeteJaagate Adivasi. In Vishvakarma, Vinod editor, Ranendra Ke Upanyason Men Adivasi, Pages 189-214, Pralek Prakashan, Thane.
- Lata, A(2023), Shiksha Ke Vividh Pahlu : Bharatendu Aur Nai Shiksha Neeti Ka Adhayayan In Dr. Satayadev Prashad editor, Hindi Navjagaran, Rastriyata Aur Bhartendu Harishachand, Page 93-102, Pralek Prakashan Gaziabad , UP.
- Sharma, Goma D (2024), Darjeelingko Awaj In Vinod Syangden Smriti Granth O Darjeeling, editor, Surendra Thing Page 87-91 Smriti Granth Prakashan, Darjeeling..

Conference/Workshop/Symposium/Seminaretc.Attended

Name of Faculty/Staff Member	Purpose of Attending	Title of Event	Date/Period	Organizer and Venue
Meena, Pramod	Poetry Reading In The Session Of Tribal Poets' Meet	Unmesh 2023 (International Literature Festival)	06-08-2024	Jointly Organized By Ministry Of Culture, Goi & Sahitya Academy, New Delhi At Bhopal; 3rd-6thaugust 2023
Meena, Pramod	Presented a paper on 'Aadiwasi Aur Upanyas Lekhan Kee Chunotiyen'	Jharkhand Adivasi Mahotsav	09-08-2023	Organized by Dr.Ramdayal Munda Janjatiya Kalyan Shodh Sansthan, Ranchi, 9th-11th August, 2023
Meena, Pramod	Presented a paper on 'Tea Tribe'	Four Day National Seminar on the 'Culture and Cultural History of Northeast India'	19-03-2024	Organized by Dr.Ramdayal Munda Tribal Welfare Research Institute, Ranchi; 19th to 22nd March 2024
Meena, Pramod	Presented a paper on 'Adivasi Cinema'	An online national seminar on 'Marginalised Society and Hindi Cinema: Various Aspects'	18-05-2024	organized by Dept. of Hindi, Nagaland University,

				Kohima; 18th May 2024
Anushabda	Coordinator	National Seminar on “Bhasha, Sahitya aur Sanskriti (Poorvottar ke wishesh sandarbh mein)”	11-03-2024 To 12-03-2024	Kendriya Hindi Sansthan, Agara&Dept. of Hindi, T.U.
Anushabda	Coordinator	National Seminar on ‘Uchchatar Shiksha ke vikas mein Takaniki Shabdawali ki bhumika’	14-03-2024 To 15-03-2024	Commission for Scientific and Technical Terminology, Delhi & Dept. of Hindi, T.U.
Anushabda	Resource Person (Lecture delivered on the topic “Rashtriya ShikshaNiti ka Bhashai sandarbh evam Takaniki Shabdawali”)	National Seminar on “Rashtriya ShikshaNiti 2020: Takaniki Shabdawali ki bhumika evam Bharatiya Bhashayen”	18 &19-03-2024	Commission for Scientific and Technical Terminology, Delhi & Dept. of Hindi, RGU,Arunachal Pradesh
Anushabda	Paper presented on the topic “Dwitiya bhasha ke roop mein Hindi shikshan aur Matribhashaon ki bhumika”	5 th International Hindi Conference, New York	20 & 21-10-2023	Consulate General of India, New York, USA (Online)
Anushabda	Resource Person (Lecture delivered on the topic “Asamiya Bhasha evam Sanskriti mein Takaniki Shabdon ka anuprayog”)	National Seminar on “Asamiya Bhasha evam Sanskriti mein Takaniki Shabdawali”	22& 23-09-2024	Commission for Scientific and Technical Terminology, Delhi & C.K.B. College, Teok, Jorhat, Assam
Shukla S.	Presented a paper on “Lokjagaran Ke Rup Mein Bhaktikavya”	One day online National Seminar on “Aadikaline wa Madhyakalin hindi Kavita”	13-02-2024	Marwari Mahavidyalaya, Darbhanga Bihar, (Online).

Sharma, Goma D	Paper Presentation	Purvottar Bharat Ki Bhashaon me Srijandharmita	23-10-2024	Webinar (GoogleMeet)
Sharma, Goma D	Participation	2 days National Seminar on The Role of Technical Terminology in Higher Education	14-03-2024 to 15-03- 2024	Department of Hindi Tezpur University
Sharma, Goma D	Chair Person	Reimagining Discourse : Language Literature and Communication	30-04-2024	Vignan's Foundation For Science, Tech and Research University, Valdamundi, Guntur, AP (Webinar)

Invited Talk

Name of Faculty Member	Title of the Talk	Title of the Event	Date	Organizer and Venue
Tripathi S.	Sahitya Aur Bhasha Ka Antahsambandh	Hindi Pakhwara.	19-09- 2023	National Institute of Technology, Arunachal Pradesh.
Tripathi S.	Bhojpuri Lokgitan Mein Ram.	Lecture Series	30-01- 2024	Govt. Tilak P.G. College, Katani, M.P. (Online)
Meena, Pramod	Delivering a lecture on 'Aadivasi Jeevan Ke Aupanya sikRoopantaran Kee Dushwariyan'	A refresher course on 'Tribal Studies – Cultural and Social Dimensions'	19-08- 2023	Organized by UGC Human Resource Development Centre, Ranchi University, Ranchi (Jharkhand); 8 th to 21 st August 2023

LataA.	Aapka Banti Upanyaas ka Uddeshya aur Samasyaye	Departmental Seminar	04.04.2 4	Department of Hindi, Naogaon Girls' Collage, Nagaon, Assam
Anushabda	Bharat ki Rashtriya sanskritik ekta aur Hindi.	Hindi Diwas, 2023	14-09- 2023	Hindi Sahitya Sammelan, Tezpur
Anushabda	Rashtriya evam Antarrashtriya pariprekshya mein Hindi tatha usase sambandhit rojgar ke kshetra.	Lecture Program	20-09- 2023	B. Borooah College, Guwahati, Assam
Anushabda	Hindi bhasha ki uchch arangat chunautiyan evam samadhan	Lecture Program	20-09- 2023	Pragjyotish College, Guwahati, Assam
Anushabda	Bhashavigyan aur uske vividh aayam	Lecture Program	23-09- 2023	J.B. College, Jorhat, Assam
Anushabda	Asamiya lokmanas mein Ram	Annual Convention, 2024	21-01- 2024	Hindi Sahitya Sammelan, Tezpur
Shukla S.	Women Empowerment	Women Empowerment : myth, history and Reality	30-09- 2023 to 01-10- 2023	Samajik Sashaktikaran Bahuuddeshiy Sanstha Wardha, Maharashtra
Shukla S.	Divyangon Ka Samaveshikaran Evam Rojgaar Ke Prashan	Divyang diwas	03-12- 2023	Samajik Sashaktikaran Bahuuddeshiy Sanstha Wardha, Maharashtra Aur Mahila Adhyayan Kendra, Ambedkar College Nagapur University.

Sharma, Goma D	Purvottar Bharat me Hindi ki Sthiti	Ninth Foundation Day Celebration, Purvottar Hindi Sahitya Akademi, Tezpur	26 -05- 2024	Asomiya Club, Tezpur
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Other Significant Activities of the Department

- Special Lecture: 'Saundarya Aur Swadheenta' delivered by Prof. Bajrang Bihari Tiwari (Deshbandhu College, New Delhi) on 10-06-2024.
- Three lectures on Hindi Divas delivered by Shree Hariram Meena (Adivasi Writer), Prof. Jai Kaushal (Assam University, Diphu Campu) & Prof. Ashutosh Partheshwar (University of Allahabad, Prayagraj) on 14-09-2024.
- Special lecture: 'Adivasi Sahitya' delivered by Dr. Ganga Sahay Meena (JNU, New Delhi) on 07-06-2024.

Notable Placement of Students :

Name of Student	Academic Programme	Placement Designation	Company/Organization	Mode of Selection
Gitika Sharma	PGDT (2017-2018)	Graduate Hindi Teacher	Adarsha Vidyalaya Sangathan (Department of School Education) Govt of Assam	Off Campus
Nilutpal Saikia	PGDT (2020-21)	TGT Hindi	PM Shri Kendriya Vidyalaya Nagaon	Off Campus
Priyanka Devi	P.G. (2021-23)	Assistant Professor	Kharupetia College	Regular

DEPARTMENT OF CULTURAL STUDIES

About the Department

The Department of Cultural Studies, Tezpur University, is one of the earliest Departments founded in 1995. The department focuses on the study of cultural products, practices, and forms, with a particular emphasis on North-East India. Its curriculum adopts an interdisciplinary approach, encouraging the examination of traditional and emergent cultural phenomena from diverse perspectives. Drawing expertise from fields such as Anthropology, Performance Studies, Literature, Folklore, Media and Film, and Gender Studies, the department's researchers and faculty engage in a wide range of topics. These include cultural history, folklore, media studies, heritage, gender studies, cultural theory, comparative literature, translation, border studies, Ethnicity and Nationalisms.

Academic Programmes and Student Intake

Academic Programme	Student Intake
<i>MA in Cultural Studies</i>	30
<i>Ph.D.</i>	Variable (10 admitted in 2023-24)

Thrust Research Areas of the Department

- Cultural History
- Media and Popular Culture
- Cultures of North-East India
- Border Studies

Major Facilities/Equipment available

- Facilities:
 - Cultural Interpretation Centre (Departmental Museum)
 - Neelpawan Baruah Museum of Modern Art
 - Departmental library
 - Digital archive of cultural contents
 - Audio-visual classroom cum seminar hall with projector
 - Wall of Heroes: A photo gallery of Indian freedom fighters
- Equipment:
 - NAS server
 - Workstations for audio-visual processing
 - DSLR cameras and video camcorders
 - De- Humidifier Cabinet

Faculty Members

Designation	Name	Highest Qualification (Institute)	Specialization	<email>@tezu.ernet.in	Date of holding the current Position
<i>Professor</i>	Debarshi Prasad Nath	Ph.D. (Rajiv Gandhi University)	Cultural Theory and Contemporary Culture & Films, Comparative Literature and Translation, Cultural Memory and Cultures of Northeast India	dpnath	22-10-2014
	Parasmoni Dutta	Ph.D. (TU)	Oral history, Digital culture, Heritage studies and Cinema & advertisements	paras	18-11-2019
	Madhurima Goswami	Ph.D. (TU)	Performance Studies, Women Studies and Indian Poetics	mgs	04-04-2014
	Juri Gogoi Konwar	Ph.D. (Dibrugarh University)	Anthropology of Textile, Anthropology of Food, Ethnicity, Cultures of North East India, South East Asian Studies and Medical	jgkon	07-02-2022

			Anthropology		
	Jayanta Vishnu Das	Ph.D. (TU)	Media & Culture, Comparative Media Studies and Media and Globalization	jvdas	16-11-2009
	Mandakini Baruah	Ph.D. (TU)	Gender Studies, Folklore Studies, Television Studies and Paremiology	mb	13-10-2010
	Hashik Nadukkandiyil	Ph.D. (Hyderabad University)	Performance studies, Community studies and Cultural history	hashikk	17-09-2012
	Moushumi Kandali	Ph.D. (MS University, Baroda)	Visual Culture and Art, Literary Cultures, Gender Studies and Translation	moushumi	03-04-2017
	Alison East	MPhEd (University of Otago)	Dance Ethnography	alieast41	23-11-2021
	Barbara Hellen Snook	Ph.D. (University of Auckland)	Community Dance	b.snook	23-11-2021
GU <i>Guest Faculty</i>	Bornil Jonak Phukan	M.A. (Tezpur University)	Film and Media Studies Modern Assam	bornil	05-02-2024

Officers and Staff Members

Designation	Name	email	Date of holding the current position
<i>Assistant Curator</i>	Dr. Subhra Devi	sd@tezu.ernet.in	08-04-2011
<i>Assistant</i>	Ms. Malati Kalita	malatik@tezu.ernet.in	07-02-2024
<i>MTS</i>	Jogen Das	jogen@tezu.ernet.in	01-03-1996

Research Projects (both Ongoing and New)

Project Title	Funding Agency	Amount (in INR)	Duration	Investigator(s)
SAP-DRS II: Sacred Spaces on the Banks of the River Brahmaputra	UGC	29,76,173 lakh	5 years (2018- 23)	Debarshi Prasad Nath
Archiving, Modeling and Visualization of the Eco-Cultural Heritage of Majuli River Island of Assam	DST	47.17 lakh	3 years (2019- 2022) Extended till 2023	ParasmoniDutta
‘Exploring Knowledge on Medieval Assam: Multidisciplinary IKS Kendram at Tezpur University’ , Co PI on ‘‘Holistic medicine and wellness’’	THE INDIAN KNOWLEDGE SYSTEMS DIVISION OF MoE @ AICTE	30,84,000/-	2023-2025	Juri Gogoi Konwar (Co PI)

A Conservation approach for Structural Heritage of the Ahom Dynasty through the intervention of Science & Technology (CASHAD)	INDIAN KNOWLEDGE SYSTEMS DIVISION MoE, Govt of India	13,64,000/-	2023-2025	Juri Gogoi Konwar (Co PI)
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Publications by Faculty and Staff Members

Publication of Articles in UGC-CARE Listed Group I/Group II Journals

- Rajkumari, M. & Nath, D.P. (2023). The role of Goddess Kesaikhaiti in shaping and constructing the identity of the Deoris”, Asian Ethnicity (Taylor and Francis journal), 215-236. (<http://doi.org/10.1080/14631369.2023.2245764>)
- Dowerah, S. & Nath, D.P. (2023). The Icons of Unadulterated Evil: Bollywood Villains of the 1980s’. Quarterly Review of Film and Video, Routledge. (<http://doi.org/10.1080/10509208.2023.2173474>).
- Baruah, B. & Dutta, P. (2024). Folklore as Resistance: The Politics and Poetics of Folk Elements in Bhupen Hazarika’s Songs. Ānandam: Journal of Anundoram Borooah Institute of Language, Art and Culture, Assam. Vol. 13: pp 242 – 252.
- Das, P. & Dutta, P. (2024). Family Crisis in Globalising India: Feminine Agency and Masculine Anxiety in the Web Series Kohrra. Journal of Media and Communication 2 (7), pp 80 – 93. December 2023
- Kandali, M. (2023). Looking at the ‘Other’ Nilamani: Nilamani Phookan as an Aficionado of Art, Anvesan, Vol. XVI (2023-24), ISSN 2250-2475
- Phukan, B.J. (2024). " Screening trauma and violence: Representation of insurgency in select films from Assam", South Asian Popular Culture, Taylor & Francis, 22:1, 103-119
- Nayak, B. & Baruah, M. (2023). “Pregnant Bodies in Transit: Maternity, Migration, and the 1962 Sino-Indian War in Rita Chowdhury’s Chinatown Days”, South Asian Review, 1-15 (<https://doi.org/10.1080/02759527.2023.2278835>)

Publication of Books

- Nath, D.P. (ed) (2023). Reflections of Dance along the Brahmaputra'. D.P. Nath, B. Snook and R. Buck (eds). Routledge India. <https://doi.org/10.4324/9781003398776>. 2023. ISBN: 1032452382.

Publication of Book-chapters

- Nath, D.P. (2023). ‘Contextualizing Witch Hunting Practices in Assam’. Ed. Sajal Nag Black Magic, Witchcraft and Occultism Secret Cultural Practices in India. Delhi, Manohar. ISBN: 978-93-91928-03-2. pp. 583-588.

- Kandali, M. (2023). Home as the constructed abode: Santiniketan and the trinity of modern art of Assam. In Mukhopadhyaya, A., editor, *100 years of Kala Bhavana*, volume 2, pages 201-213, 978-81-87507-81-0, Lalit Kala Academy, New Delhi.
- Konwar, J.G. (2023) 'Echoing the Rhythm' in Reflections of Dance along the Brahmaputra': Celebrating Dance in Northeast India. D.P. Nath, B. Snook and R. Buck (eds). Routledge India. <https://doi.org/10.4324/9781003398776>. 2023. ISBN: 1032452382.
- Das, J.V. (2023). Social Media and the Politics of Dance in Reflections of Dance along the Brahmaputra: Celebrating Dance in Northeast India. D.P. Nath, B. Snook and R. Buck (eds). Routledge India. <https://doi.org/10.4324/9781003398776> . 2023. ISBN: 1032452382.
- Dutta, P. (2023). "Glimpses of the dance world of North- east India" in Reflections of Dance along the Brahmaputra: Celebrating Dance in Northeast India. D.P. Nath, B. Snook and R. Buck (eds). Routledge India. <https://doi.org/10.4324/9781003398776>. 2023. ISBN: 1032452382.
- Baruah, M. (2023) "Dance through the Performers' Lens" in Reflections of Dance along the Brahmaputra: Celebrating Dance in Northeast India. D.P. Nath, B. Snook and R. Buck (eds). Routledge India. <https://doi.org/10.4324/9781003398776>. 2023. ISBN: 1032452382.
- Baruah, M. (2023) "The Performers of Folk Dances" in Reflections of Dance along the Brahmaputra: Celebrating Dance in Northeast India. D.P. Nath, B. Snook and R. Buck (eds). Routledge India. <https://doi.org/10.4324/9781003398776> . 2023. ISBN: 1032452382.
- Kandali, M. (2023) 'Gender and Dance: "Gazin'g at the Doudini and the female Sattriya and Bihuwati dancers' in Reflections of Dance along the Brahmaputra': Celebrating Dance in Northeast India. D.P. Nath, B. Snook and R. Buck (eds). Routledge India. <https://doi.org/10.4324/9781003398776>. 2023. ISBN: 1032452382.

Events organized by the Department of Cultural Studies

- Organized an International Faculty Development Programme on "**Community Dance and Creative Teaching Strategies**" from 11-15 December, 2023. Resource Person- Prof Barbara Hellen Snook, Dance Studies Programme, University of Auckland, New Zealand.
- Organized a talk on the topic: "**Grandeur of Zardozi: The Embroidered Heritage**" on 19.04.2023 (online). Speaker- Dr. Charusmita Gupta. Former Director, MGC Asian Traditional Textiles Museum, Cambodia delivered
- Organized a talk on the topic "**Museum and Cultural Heritage: Contributions and Concerns**" on 20.04.2023 (online). Speaker- Prof. Sarit Kumar Chaudhuri, Professor of Anthropology, Rajiv Gandhi University, Itanagar & Former DG, IGRMS, Bhopal
- Organized a talk on the topic "**Development of National Maritime Museum at Lothal**" on 22.04.2023 (online). Speaker- Prof. Vasant Shinde. Director General,

National Maritime Heritage Complex, Gandhinagar and Former VC, Deccan College Post-Graduate and Research Institute, Pune delivered.

- Organized a talk on ***"Museums, Indigeneity and Climate Crisis"*** on 16th May, 2023 on the occasion of International Museum Day, 2023 (Online). Speaker- Prof. Amareswar Galla, UNESCO Chair on Inclusive Museums and Sustainable Heritage Development at Anant National University, Ahmedabad and Professor Emirates, Australian National University, Canberra, delivered
- An exhibition titled ***"Bambusa: Bamboo in Everyday Life"*** was organized from 5th June to 15th June, in the Foyer of the New HSS Building, Tezpur University.

Conference/Workshop/Symposium/Seminar etc. Attended

Name of Faculty/ Staff Member	Purpose of Attending	Title of Event	Date/Period	Organizer and Venue
i. Debarshi P Nath ii. Parasmoni Dutta iii. Madhurima Goswami iv. Juri Gogoi Konwar v. Jayanta Vishnu Das vi. Mandakini Baruah	Participant	'Community Dance and Creative Teaching Strategies', International Faculty Development Programme	11-15 December, 2023	Department of Cultural Studies, Venue: MMTTC, Tezpur University
Juri Gogoi Konwar	Participant	Leadership Development for Deans of Faculty and Heads of Department of Universities in North-East India	21-23, February, 2024	Department of Higher and Professional Education, National Institute of Educational Planning and Administration (NIEPA), New Delhi Venue: Tezpur University

Juri Gogoi Konwar	Participant	Silpakorn Summer School 2023 International Cultural Exchange Program	23-29, July, 2023	The Faculty of Archaeology Venue: Silpakorn University, Bangkok, Thailand
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Invited Talk/ Resource Person

Name of Faculty Member	Title of the Talk	Title of the Event	Date	Organizer and Venue
Juri Gogoi Konwar	Ethnic food of Assam	Food- Stories of Evolution and Blending	15th October 2023.	Guwahati Literature Festival (GLF) Venue: Guwahati
Juri Gogoi Konwar	Textile Heritage	Awareness Workshop organized by the Department of Cultural Studies on the occasion of World Heritage Day	24 April 2023	Department of Cultural Studies, TU Venue : Tezpur Government H S School, Tezpur
Moushumi Kandali	Myth, Folklore and Creative Writing	Two days international Art and Literature Festival	6 -7 May 2023	Sikkim Art and Literature Festival - Khangchendzonga Venue: Sikkim
Moushumi Kandali	Sattriya Dance and Gender perspective	National Seminar	17 November 2023	Sangeet Natak Academy, Delhi and Sattriya Kendra Guwahati Venue: Guwahati
Moushumi Kandali	Role of technical terms in development of Education	National Workshop	14 March 2024	Government of India Commission for Scientific & Technical Terminology
Moushumi Kandali	Fine Art and Music Aspects and Implementation in NEP 2020	Workshop on NEP 2020	17 July 2023	Rajiv Gandhi University Venue: Arunachal Pradesh

Moushumi Kandali	Post Modernism and Contemporary Visual Art: A Study with Special Reference to the Art Practices of NE India	International Seminar titled Beyond the Postmodern: Unravelling Culture and Identity	8 -20 December, 2023	The Department of Management, Humanities & Social Sciences, NIT Agartala Venue: Agartala
Moushumi Kandali	Translation and Creative Writing	International festival of Art and Literature White Owl	7 -9 January 2024	Penguin India and White Owl, Nagaland Venue: Nagaland
Moushumi Kandali	My journey about writing the BLACK MAGIC WOMEN	The Valley of Words International Art and Literature Festival	8 -9 December, 2023	Chennai International Centre. Venue: Chennai
Subhra Devi	Museum Management	Indian Art History Congress	1-7 October, 2023	Indian Art History Congress (On line)
Debarshi P Nath	The Green in Literature and Popular Imagination of Northeast India	ICSSR sponsored National Seminar	7 March 2024	Darrang College, Tezpur, Assam Venue: Tezpur
Debarshi P Nath	Reading the Subtexts of Popular Bollywood Films of the 1980s	Special Lecture	25 September 2023	Department of Modern Indian Languages and Literary Studies, University of Delhi Venue: University of Delhi
Jayanta Vishnu Das	Advances in the Field of Media and Cultural Studies: Opportunities and Scope for Students	Invited Talk	17th November 2023	Darrang College, Tezpur Assam Venue: Darrang College

Awards/Honours/Notable Achievements

Name of Awardee	Designation of Awardee	Achievement	Event/Awarded by
Moushumi Kandali	Assistant Professor	The Black Magic Women for GENDER SENSITIVITY in 2023	South Asia Laadli Media award
Reema Borah	Research Scholar	Anunaad (The Resonance): The best film in the Social Issues category in the Prestigious	National Film Development Corporation, Indian government's Directorate of Film Festivals

		69th National Film Award 2023.	
Debarshi Prasad Nath	Professor	Visiting Professor at University of Jambi, Indonesia under the AINU-FEP Scheme in 2023.	The ASEAN-India Network of Universities: Faculty Exchange Programme (AINU-FEP), Ministry of External Affairs, Government of India

Name of Qualifying Examination	Number of Qualified Students	Academic Programme
<i>JRF</i>	01	MA in Cultural Studies

Notable Placement of Students

Name of Student	Academic Programme	Placement Designation	Company/ Organization	Mode of Selection
Wanlaya Namtham	Ph D	Assistant Professor	Rambhai Barni Rajabhat University, Thailand	Off Campus
Siwani Mech	MA and PhD	Consultant Junior Research	ICSSR, New Delhi	Off-Campus
Swikrita Dowerah	Ph D	Assistant Professor	Symbiosis Centre for Media and Communication, Pune	Off-Campus
Julie Duarah	MA and PhD	Assistant Professor (Guest Faculty)	Kalaguru Bishnu Prasad Rabha Degree College, Orang	Off-Campus
Tinam Borah	Ph D	Assistant Professor (Guest Faculty)	Centre for Distance and Online Education	Off Campus
Siddhant Medhi	Ph D	Assistant Professor	Royal Global University, Guwahati	Off Campus

Enrollment of Students in other Institutes for Higher Studies

Name of Student	Academic Programme	Name of other Institute	Enrolled Academic Programme
Ravi Agarwalla	MA in Cultural Studies	TISS - Tata Institute of Social Sciences, <i>Mumbai</i>	Ph.D
Lakhimi Sarma	MA in Cultural Studies	Assam Women's University, Jorhat	PhD

DEPARTMENT OF EDUCATION

About the Department

The Department of Education, Tezpur University, was established in the year 2014 with an aim to prepare learners for meaningful careers in the field of education. Teacher Education Program assists students in developing knowledge, skills, and dispositions necessary to become effective and caring teachers in an ever-changing society. Currently, the Department of Education runs four programmes. MA in Education which provides learners with a more comprehensive understanding of education as a field of knowledge, Two Year B.Ed. programme, which prepares students to work as teachers in schools, Four Year Integrated B.Sc.B.Ed., and Ph.D. in Education. From academic session 2024-25, Department is going to start M.Ed. programme with intake of 50 seats.

Academic Programmes and Student Intake

Academic Programme	Student Intake
<i>2 Year B.Ed.</i>	63
<i>4 Year Integrated B.Sc.B.Ed.</i>	39
<i>M.A. in Education</i>	38
<i>Ph.D. (Education)</i>	Variable (12 in 2023-24)

Thrust Research Areas of the Department

- Curriculum and Pedagogical studies for School Education
- Teacher Education
- Contemporary Educational issues in North East India
- ICT in Education

Major Facilities/Equipment available

- Psychology Resource Centre
- Art and Craft Resource Centre
- Curriculum Laboratory
- ICT Resource Centre
- Departmental Library

Faculty Members

Designation	Name	Highest Qualification (Institute)	Specialization	<email>	Date of holding the current position
<i>Professor</i>	Nil Ratan Roy	Ph.D. (Assam University)	Curriculum Development, Educational Planning and Administration, Teacher Education, Education for Disadvantaged groups, Measurement and Evaluation	niledn	31-08-2016
<i>Associate Professor</i>	Sashapra Chakrawarty	Ph.D. (BHU)	Educational Psychology, Educational Research, Special Needs Education, Method of Teaching in Biological Science/Elementary Education.	sashapra	23-09-2014
<i>Associate Professor</i>	Akhilesh Kumar	Ph.D. (Ramakrishna Mission Vivekananda Research Institute)	Inclusive Education, Intellectual Disability, Guidance and Counselling, Distance and Online Learning, Educational Technology, Research Methodology, Pedagogy of Maths	akumar	16-10-2023
<i>Assistant Professor</i>	Yeasmin Sultana	Ph.D. (Assam University)	Language Education, Research	yeasmin	11-09-2014

			Methodology in Education		
<i>Assistant Professor</i>	R. D. Padmavathy	Ph.D. (Pondicherry)	Mathematics Education, Research Methodology & Statistics in Education, Educational Psychology, Cognitive Science, Educational Technology, e-content Development, Guidance and Counseling, Environmental Education, Adult and Continuing Education.	padma	15-09-2014
<i>Assistant Professor</i>	Hitesh Sharma	Ph.D. (DAVV, Indore)	Educational Psychology, ICT in Education, Research Methodology and SPSS, Educational Administration, Guidance and Counseling, Method of Teaching Physical sciences, Method Of Teaching Biological sciences, Early Childhood Education	hitesh	16-09-2014
<i>Assistant Professor</i>	Pratima Pallai	Ph.D. (University of Lucknow)	Pedagogy of Social Science, ICT in Education, Teacher Education Measurement and Evaluation	pratima	23-9-2014
<i>Assistant Professor</i>	Md. Asif	M.A. (AMU), M.Ed. (Jamia	Contemporary Indian Education, Teacher Education,	mdasif	20-07-2016

		Millia Islamia)	Educational Technology, Pedagogy of Social Science		
<i>Assistant Professor</i>	Sradhanjali Pradhan	Ph.D. (Utkal University)	Pedagogy of Physical Science, Educational Technology and ICT in Education, Measurement and Evaluation	sradha	25-07-2016
<i>Assistant Professor</i>	Sanghamitra Das	Ph.D. (NIEPA, New Delhi)	Gender and Education	sdas19	20-11-2019
<i>Assistant Professor</i>	Gopal Singh	Ph.D. (R.I.E. Ajmer, NCERT/ MDSU, Ajmer)	Science Education, Learning & Teaching, Guidance & Counselling/ Constructivism & Thinking Skills	drgrana	25-11-2019
<i>Assistant Professor</i>	Akash Ranjan	Ph.D. (Patna University)	Inclusive Education and Science Education	aranjan	17-08-2023
<i>Assistant Professor</i>	Antara Dey	Ph.D. (Tezpur University)	Educational psychology, Teacher Education	antara9	04-10-2023

Officers and Staff Members

Designation	Name	<email>@tezu.ernet.in	Date of holding the current position
<i>Technical Assistant</i>	Amarnath Sah	amarsah	30-08-2019
<i>Laboratory Assistant</i>	Nilakshi Saikia	nilakshi	22-08-2019
<i>Library Attendant</i>	Chandan Nath	nathchn	04-03-2020

Laboratory Attendant	Anupam Saikia	anupams	12-03-2020
Office Assistant (Outsourced)	Suman Handique	sumanh	09-06-2020
MTS	Nitai Bauri	nitai12	01-01-1995

Publications by Faculty and Staff Members

Publication of Articles in UGC-CARE Listed Group I/Group II Journals

- Basumatary, P & Roy, N.R. (2024). Prospects of National Education Policy 2020 for Women's Education in India, in *International Journal of Cultural Studies and Social Sciences*, Vol-20, Issue-1, No. 14, January-June: 2024, ISSN: 2347-4777, PP.143-146.
- Pal, R, Dey, A. & Roy, N.R. (2024). Gender and science achievement of secondary school students: The explaining role of student engagement, in *National Journal of Education* Vol. XXII No. (2) July 2024 pISSN 0972-9569, eISSN 2584-2595, PP. 144-161.
- Chakrawarty, S. and Choudhuri, R. (2023). Construction and Standardization of Student's Aggressive Behaviour Rating Scale. *National Journal of Education*, XXI (2): 75-83.
- Chakrawarty, S. and Pallai, P. (2024). Effectiveness of Flipped Classroom Technique in Enhancing Academic Achievement of B.Ed. Students. *Indian Journal of Educational Technology*, 6(1):68-78.
- Chakrawarty, S. and Khatiwora, D. (2024). A Study of Difficulties Encountered by Female Pre-service Teachers of Assam. *Indian Journal of Psychology*, 7, 147-149.
- Pradip, Sunita, S., & Kumar A. (2023). Family Quality of Life of Individuals with Intellectual and Developmental Disabilities: A Systematic Review, *Education and Society*, 46 (3), 180-192.
- Rai, A., & Kumar, A. (2023). भारतीय विद्यार्थियों में बढ़ती गणित भीति एवं उसे कम करने के उपाय, *भारतीय वैज्ञानिक एवं औद्योगिक अनुसन्धान पत्रिका*, 31(2), 142-148, <https://nopr.niscpr.res.in/handle/123456789/62990>, <https://doi.org/10.56042/bvaap.v31i2.6390>
- Kumar, A., Tripathi, K.K., & Singh, R.R. (2023) राष्ट्रीय शिक्षा नीति 2020 के आलोक में ऑनलाइन एवं दूरस्थ माध्यम से समावेशी उच्च शिक्षा: संभावनाएं एवं चुनौतियाँ, *ज्ञान गरिमा सिंधु*, 80, 213-218, <https://cstt.education.gov.in/sites/default/files/ggs-80.pdf>
- Handique, K., Asif, M., and Sultana, Y. (2023). Attitude of prospective teachers towards Assam teachers' eligibility test: a survey study in sonitpur district. *Research and Reflections on Education*, 21(2):24-31.

- Gogoi, N., and Sultana, Y. (2024). Problems in developing listening skills: Voices of secondary school teachers. *Journal of English Language Teaching*, 66(1): 3-12.
- Padmavathy, R.D. (2023). NEP 1986 & NEP2020: Teacher Education Key Differences, Trends and Challenges, *Education and Society*. SI-1(5-3):113-119.
- Saikia, J. and Padmavathy, R.D. (2023). Exploring Learner's Readiness for MOOCs in Indian Higher Education: A Case Study. *Journal for Research in Attachment Therapy and Developmental Diversities*, 6 (1) : 420-430.
- Padmavathy, R.D. (2023). Techno Stress in the Age of Artificial Intelligence: Potential Impact of AI on Mental Health and Well-Being, *Indian Journal of Natural Sciences*, 14(80) : 61241-46.
- Saikia, J. & Padmavathy, R.D. (2024). Improving MOOC Learning Experience With AI: A Focus on Personalized Recommendation, *International Journal of Cultural Studies and Social Sciences*, 20(1-46) : 90-95.
- Bora, D. and Das, S. (2024). Educational participation of children of women domestic help: Self limiting role derived from ignoble profession. *Third Concept*, 37(443):90-95.
- Ranjan, A. and Asha, N. (2024a). Effect of Fernald Method of Teaching (VAKT) on Learning Disabled Children of Arunachal Pradesh. *National Journal of Education*, 22(1): 44-62.
- Dey, A. and Roy, N. R. (2023). A study on the influence of teaching experience on social intelligence and professional commitment of secondary school teachers of West Bengal. *voice of teachers and teacher educators*, XII(I):128-143.

Publication of Books

- Padmavathy, R.D. (2023). *Research Methodology Methods, Tools and Techniques*. Academic Guru Publishing House, Bhopal.
- Padmavathy, R.D. (2023). *Discrete Maths and Descriptive Statistics*. R K Publications House, India
- Ranjan, A., Kumar, R.R., Kushwaha, A.K., Chitrakar, N., and Kalita, S. (2024). *The Panacea: Quality Education and Health Care*. University Publication, 7/31 Ansari Road Daryaganj New Delhi-110002.

Publication of Book Chapters

- Basumatary, P & Roy, N.R. (2023). Socio-Economic and Educational Status of Tribal Women in Dhemaji District of Assam-A Critical Analysis, in the peer-reviewed edited book entitled "*Burning Problems in India: Social, Economic & Environmental* (Eds.) Dr Dilipkumar A. Ode, & et.al, ISBN: 978-91-89764-65-1, November, 2023 (An International Edition), PP. 39-45.
- Das, P. & Roy, N.R. (2024). Artificial Intelligence in the Teaching-Learning Process: A Paradigm Shift in the Teacher's Role, in *Transformative Digital*

Technology for Disruptive Teaching and Learning, (Eds.) P.Kaliraj, G. Singaravelu & T.Devi, Published by CRC press Taylor & Francis Group LLC, Boca Raton, London, New Work, ISBN: 978-1-032-67517-6, PP.198-207.

- Das, S.S. & Roy, N.R. (2024). M-Learning: A New Definition in Technology-Based Learning, in *Transformative Digital Technology for Disruptive Teaching and Learning*, (Eds.) P.Kaliraj, G. Singaravelu & T.Devi, Published by CRC press Taylor & Francis Group LLC, Boca Raton, London, New Work, ISBN: 978-1-032-67517-6, PP. 141-153.
- Chakrawarty, S. and Khatiwora, D. (2023). Role of Teacher in Implementation of Indian National Education Policy 2020 and its Challenges in the aspects of Teacher Education, *National Education Policy 2020: Challenges and Opportunities in Higher Education*, 72-81, 978-93-92108-68-6, Rudra Publishers and Distributers, New Delhi.
- Chakrawarty, S. and Khatiwora, D. (2024). Revamping Teacher Education in the Light of NEP 2020, *The Panacea: Quality Education and Health*. 978-93-92516-92-4, University Publication, New Delhi.
- Sharma, K., Sultana, Y., and Pallai, P (2024). Case Study on the Foundational Learning Skills of Elementary Level School Going Children of Udmari Locality of Tezpur. In *Exploring Paradigm Shifts in Learning*, pages 38-51, ISBN: 978-81-965019-3-8. Govt. College of Teacher Education, Tezpur
- Paul, N., Asif, M., and Sultana, Y. (2024). Technological Transformations in Assessment: Exploring Nature, Challenges and Solutions for Technology-Enabled Assessment in Higher Education. In *Exploring Paradigm Shifts in Learning*, pages 38-51, ISBN: 978-81-965019-3-8. Govt. College of Teacher Education, Tezpur
- Padmavathy, R.D. (2023). Educating for a Sustainable Future: Unleashing the Transformative Power of Education and Sustainable Development. In Saptarshi, P.G., Shinde, S.D., Nadaf, F.M., Bhanje, B.M., More, J., Tipe, H.B., Samuel, B.A., and Mane, S.P., editors, *Sustainable Development Goals in SAARC Countries: Key Issues, Opportunities and Challenges*, pages 168-174, ISBN:978-93-94819-34-4. Jyotikiran Publication, Pune.
- Singha, H. and Padmavathy, R.D. (2023). Techno-Stress-Eustress Continuum: The Future of Learning with Artificial Intelligence in Higher Education. In Jagadesh, M. and Kumar, S.V., editors, *Digital Transformation Trends in Education*, pages 71-81, ISBN:978-81-96030131. Sri Bharani Publications, Coimbatore.
- Padmavathy, R.D. (2023). Innovative Approaches to Integrating Sustainable Development into Education Systems and Curricula. In Gupta, T. and Khatreja, K., editors, *Sustainable Development and Quality Education*, pages 37-43, ISBN:978-93-91654-37-5. EZ Education, Noida.
- Padmavathy, R.D. (2023). Evolution of MOOCs: From Open Access to Personalized Learning. In Sarkar, S.R. and Tahura, S., editors, *EduQuest: Navigating The Landscape of Educational Research*, pages 32-40, ISBN:978-93-5987-825-6. Dr. Sohel Rana Sarkar, Dakshin Dinajpur.

- Padmavathy, R.D. (2023). Inspiring Case Studies for SDGs Implementation: Challenges and Opportunities. In Gupta, T., editor, *Global Goals: A Primer to Sustainable Development Goals*, pages 168-184, ISBN:978-93-91654-34-4. EZ Education, Noida.
- Padmavathy, R.D. (2023). Empowering the Next Generation: Investing in Girls' Futures. In Gupta, T., editor, *Harmonizing Humanity For Global Development: Advancing Gender Equality And Women Empowerment*, pages 178-187, ISBN:978-93-91654-80-1. EZ Education, Noida.
- Borah, S. and Ranjan, A. (2024a). Yoga Nidra: Indigenous Practice for Good Health. Ranjan, A., Kumar, R.R., Kushwaha, A.K., Chitrakar, N., and Kalita, S., *The Panacea: Quality Education and Health Care*. 20-27, ISBN No. 978-93-92516-92-4, University Publication, 7/31 Ansari Road Daryaganj New Delhi-110002.
- Sonowal, R. and Ranjan, A. (2024b). Value Education and Its Significance. Ranjan, A., Kumar, R.R., Kushwaha, A.K., Chitrakar, N., and Kalita, S., *The Panacea: Quality Education and Health Care*. 59-64, ISBN No. 978-93-92516-92-4, University Publication, 7/31 Ansari Road Daryaganj New Delhi-110002.

Conference/Workshop/Symposium/Seminar etc. Attended

Name of Faculty/Staff Member	Purpose of Attending	Title of Event	Date/Period	Organizer and Venue
Nil Ratan Roy	Resource Person	In Residential training for Science Teachers for provincialized school teachers of Assam organised by TLC, Tezpur University in collaboration with Samagra Sikhsa Abhiyan, Assam.	During 03-15 July, 2023,	TLC, Tezpur University in collaboration with Samagra Sikhsa Abhiyan, Assam. (Offline)
Nil Ratan Roy	Paper presented	ICSSR sponsored National Seminar 'Skill India Mission-Transforming Youths Future' organized by Department of Education, Raha College, Raha, Nagaon, in	29th & 30th November, 2023.	Department of Education, Raha College, Raha, Nagaon, in collaboration with internal Quality Assurance Cell (IQAC) Raha College (Offline)

		collaboration with internal Quality Assurance Cell (IQAC) Raha College		
Nil Ratan Roy	Resource Person	In the IDRC, organized by Teaching Learning Centre, Tezpur University.	16-06-2023	Teaching Learning Centre, Tezpur University (Online)
Nil Ratan Roy	Resource Person	In NEP Orientation and sensitization programme for teachers of Higher Education institutions" programme organized by MMTTC, Assam University Silchar	18th March, 2024.	MMTTC, Assam University Silchar (Online)
Nil Ratan Roy	Resource Person	Pre PhD course work for social sciences research scholars, in M S University Baroda,	13th April, 2024.	M S University Baroda (Online)
Nil Ratan Roy	Resource Person	In the online "NEP Orientation and sensitization programme for teachers of Higher Education institutions" organized by Malviya mission teacher training center (MMTTC) Assam University Silchar	14.05.2024 at 4:00 pm to 5:30 pm	Malviya mission teacher training center (MMTTC) Assam University Silchar (Online)
Nil Ratan Roy	Paper presented	National Seminar on 'Yoga for	15th June, 2024	Tezpur University (Offline)

		Women, Peace, Wellbeing- Exploring New Domains' organized by Tezpur University		
Nil Ratan Roy	Participated	National Level Workshop on the Role of Technical Terminology in the Development of Higher Education, organized by Department of Hindi, Tezpur University, Assam sponsored by Commission for Scientific and Technical Terminology, MoE, Department of Higher Education, New Delhi.	14th March to 15th March, 2024,	Department of Hindi, Tezpur University, Assam sponsored by Commission for Scientific and Technical Terminology, MoE, Department of Higher Education, New Delhi. (Offline)
Nil Ratan Roy	Participant	National Level Workshop on Leadership Development for Deans of Faculty and Heads of the Department of Universities in North-East, India, Organized by Department of Higher and Professional Education, NIEPA, New Delhi in collaboration with Department of Education, Tezpur University, Assam.	February, 21-23, 2024,	Department of Higher and Professional Education, NIEPA, New Delhi in collaboration with Department of Education, Tezpur University, Assam. (Offline)

Nil Ratan Roy	Chaired an Academic Session	13th Annual International CESI conference on “Changing Dynamics of Education: Perspectives and New Directions from Global South” Tezpur University, organized by Comparative Education Society of India and Tezpur University.		Comparative Education Society of India and Tezpur University (Offline)
Nil Ratan Roy	Resource Person	ICSSR sponsored National Seminar on “Promotion of Indian Knowledge System: A Need for Atmanibhar Bharat (Self-reliant India), organized by the Department of Education, Kampur College, in collaboration with IQAC, Kampur College.	6th & 7th February, 2024	Department of Education, Kampur College, in collaboration with IQAC, Kampur College. (Offline)
Nil Ratan Roy	Keynote speaker	ICSSR sponsored National Seminar on “Promotion of Indian Knowledge System: A Need for Atmanibhar Bharat (Self-reliant India), organized by the Department of Education, Kampur College, in collaboration with IQAC, Kampur College.	6th & 7th February, 2024	Department of Education, Kampur College, in collaboration with IQAC, Kampur College (Offline)

Nil Ratan Roy	Chaired all the Academic Sessions	National Seminar on “Emerging Trends in Teacher Education towards sustainability: A Focus on preparing teachers for new generation” organized by Bhavan’s Tripura Teacher Training College, Anandanagar, Agartala,.	5th & 6th March, 2024	Bhavan’s Tripura Teacher Training College, Anandanagar, Agartala, (Offline)
Nil Ratan Roy	Resource Person	“Multidisciplinary Research in Social Sciences” in a National Seminar on Multidisciplinary Research Trends in Humanities and Social Sciences, organized by Govt. Model College, Kaziranga, Assam	24th & 25th June, 2024	Govt. Model College, Kaziranga, Assam (Online)
Sashapra Chakrawarty	Paper Presentation	International Conference On Multidisciplinary Research (2.0)	10-09-2023	Tamil Nadu Teachers Education University And Dakshin Dinajpur D.Ed. College- Online
Sashapra Chakrawarty	Paper Presentation	Two Day National Seminar	07-11-2023	Central Library, Bir Raghab Moran Government Model College, Tinsukhia, Assam- Online
Akhilesh Kumar	Participation	Community radio Awareness Workshop, Guwahati, Assam	01-02-2024 to 02-02-2024	Ministry of Information and Broadcasting, GoI, New Delhi and CEMCA

Akhilesh Kumar	Participation	The Role of Technical Terminology in the development of Higher Education	14-03-2024 to 15-03-2024	Commission for Scientific and Technical Terminology, Ministry of Education, GoI
Yeasmin Sultana	Paper presentation	International Virtual Conference	29-08-2023 to 30-08-2023	Department Of Educational Studies, Jamia Millia Islamia and Universitas Pendidikan Indonesia (Online)
Yeasmin Sultana	Session Chairing	13 th Annual International conference	01-12-2023 to 03-12-2023	Comparative Education Society of Education and Tezpur University Venue: Tezpur University (offline)
Yeasmin Sultana	Paper presentation	International Conference	28-10-2023	Kalinga Institute of Social Sciences (KISS), Deemed to be University, Bhubaneswar, Odisha (online)
Yeasmin Sultana	Paper presentation	International Conference	14-03-2024	Alagappa University (online)
Yeasmin Sultana	Paper presentation	INTERNATIONAL CONFERENCE	26-03-2024	Meston College Of Education (Online)
Yeasmin Sultana	Paper presentation	NATIONAL CONFERENCE	08-03-2024	Central University Of Himachal Pradesh (online)
Padmavathy, R.D.	Paper presentation	One Day Interdisciplinary Online INTERNATIONAL	08-07-2023	Sangola Taluka Shetakari Shikshan Prasarak Mandal Ganpatrao Deshmukh

		L CONFERENCE On “Recent Trends, Challenges and Issues in Social Science and Languages”		Mahavidyalaya, Sangola, Solapur, India . (Online)
Padmavathy, R.D.	Paper presentation	Third International Conference on “Global issues in Multidisciplinary Academic Research”	29-07-2023	Indian Academicians and Researchers Association in association with Rajabhat Maha Sarakham University, Thailand (Online)
Padmavathy, R.D.	Paper presentation	One-day “International Conference on Multidisciplinary Research (2.0)”	10-09-2023	Tamil Nadu Teachers Education University and Dakshin Dinajpur D.Ed. College, Dinajpur (Online)
Padmavathy, R.D.	Paper presentation	INTERNATIONA L e- CONFERENCE “Science, Technology and Society: A Global Perspective”	28-12-2023	Shahajiraje Mahavidyalaya, KHATAV, Satara Maharashtra (Online)
Padmavathy, R.D.	Paper presentation	International Conference on Multidisciplinary and Interdisciplinary Approaches towards Inclusive Sustainable Development, Department of Social Work and Life Long Learning	05-01-2024 to 06-01-2024	Bharathidasan University, Tiruchirapalli (Online)
Padmavathy, R.D.	Paper presentation	National Seminar on " NEP 2020: Vocationalization , Future Perspectives,	08-05-2023	Dewan College of Education, Meerut (Online)

		Opportunities and challenges"		
Padmavathy, R.D.	Paper presentation	National Seminar on Socio-Economic Issues and Development Dynamics in the North East Region of India	02-02-2024 to 03-02-2024	Darrang College Tezpur, Assam (Offline)
Dr Hitesh Sharma	Workshop on Leadership	Nurturing Future Leadership Program under the aegis of Malviya Mission Teacher Training Program	26-03-2024 to 30-03-2024	IIM LUCKNOW
Mohammad Asif	Paper presentation	International Virtual Conference	29-08-2023 to 30-08-2023	Department Of Educational Studies, Jamia Millia Islamia and Universitas Pendidikan Indonesia (Online)
Mohammad Asif	Paper presentation	International Conference	28-10-2023	Kalinga Institute of Social Sciences (KISS), Deemed to be University, Bhubaneswar, Odisha (online)
Mohammad Asif	Paper presentation	National Conference	08-03-2024	Central University of Himachal Pradesh (online)
Sradhanjali Pradhan	Paper presentation	Two Day International Virtual conference on Education, Sustainability, and National Policies : Strategies, Bandwagons and	29-09-2023 to 30-09-2023	Department of Educational Studies, Jamia Milia Islamia (online)

		Administrative Models		
Sradhanjali Pradhan	Paper presentation	13th Annual International CESI conference	01-12-2023 to 03-12-2023	Tezpur University (Offline)
Sanghamitra Das	Session Chairing	13 th Annual International CESI conference on 'Changing dynamics of Education: Perspectives and New directions from Global South'	01-12-2023 to 03-12-2023	Comparative Education of Society (CESI), and Tezpur University Venue: Tezpur University
Sanghamitra Das	Coordinator And Session Chairing	National Workshop on Leadership Development for Deans and Heads of Department of Universities in North-East India	21-02-2024 to 23-02-2024	National Institute of Educational Planning and Administration, New Delhi and Tezpur University Venue: Tezpur University
Sanghamitra Das	Participation	Workshop on Educating for Dialogue, Peace and Justice"	26-04-2023 to 28-04-2023	Department of Sociology, Tezpur University and Azim Premji University, Bengaluru Venue: Department of Sociology, Tezpur University
Sanghamitra Das	Resource Person(Panelist)	Panel Discussion on Preparedness pf Teacher Education in respect of inclusive education	28-08-2023	Department of Education, Tezpur University
Sanghamitra Das	Resource Person(Panelist)	Panel discussion on Vikshit Bharat @2047	08-01-2024	National Institute of Educational Planning and Administration, New Delhi

Sanghamitra Das	Participation	Seminar on 'The role of Technical Terminology in the Development of Higher Education	14-03-24 to 15-03-2204	Commission for Scientific and Technical Terminology Venue: Department of Hindi, Tezpur University
Antara Dey	Participation	Online Monthlong Faculty Induction Program (FIP)	15-02-2024 to 15-03-2024	PMMMNMSTT Scheme of Ministry of Education, Government of India and organized by MMTTC, Tezpur University (Formerly TLC, Tezpur University). (Online)
Antara Dey	Participation	Online Short-Term Programme on Research in Social Sciences: Methodology and Approaches	18-03-2024 to 23-03-2024	UGC-Malaviya Mission Teacher Training Centre, National Institute of Educational Planning and Administration, New Delhi in Collaboration with School of Education, Central University of Himachal Pradesh, Dharamshala. (Online)

Invited Talk

Name of Faculty Member	Title of the Talk	Title of the Event	Date	Organizer and Venue
Sashapra Chakrawarty	Stress Management and Time Management for Students	Career Guidance and Counselling for Students Of Class X	09-04-2024	Kendriya Vidyalaya, CUT, Tezpur

Sashapra Chakrawarty	Reshaping The Future: Women, ICT And Sustainable Goals	International Seminar	28-04-2024	IQAC, Uday Memorial B.Ed. College, Ranchi, Jharkhand
Sashapra Chakrawarty	Student Diversity and Inclusive Education	Short Term Course on NEP Orientation and Sensitization	09-05-2024	MMTTC, Tezpur University
Sashapra Chakrawarty	Student Diversity and Inclusive Education	Short Term Course on NEP Orientation and Sensitization	29-05-2024	MMTTC, Tezpur University
Sashapra Chakrawarty	Action Research	Induction Programme of Newly Recruited PRT	15-05-2024	Kendriya Vidyalaya, CUT, Tezpur
Sashapra Chakrawarty	Integration of ICT in Teaching Learning Process	Science Teachers Training Programme	18-06-2024 to 30-06-2024	SSA AND MMTTC, TEZPUR
Akhilesh Kumar	Skill Development Need and Importance	NEP Orientation and Sensitization Programme	21-11-2023	MMTTC, Coimbatore Institute of Technology, Coimbatore
Akhilesh Kumar	Skill Development: Challenges in India	NEP Orientation and Sensitization Programme	22-11-2023	MMTTC, Coimbatore Institute of Technology, Coimbatore
Akhilesh Kumar	Teaching Children with SLD in Inclusive Classroom	NEP Orientation and Sensitization Programme	30-11-2023	International CRE Program, IITE, Ahmedabad
Akhilesh Kumar	Higher Education and Society	NEP Orientation and Sensitization Programme	05-12-2023	MMTTC, Osmania University
Akhilesh Kumar	Student Diversity and Inclusive Education	NEP Orientation and Sensitization Programme	12-12-2023	MMTTC, University of Rajasthan

Akhilesh Kumar	Higher Education and Society	NEP Orientation and Sensitization Programme	18-12-2023	MMTTC, Devi Ahilya Vishwavidyalaya Indore
Akhilesh Kumar	Higher Education and Society	NEP Orientation and Sensitization Programme	22-12-2023	Iswar Saran PG College, University of Allahabad, Prayagraj
Akhilesh Kumar	Alternative Modes of Learning	XVI Faculty induction Programme	13-01-2024	MMTTC Sagar University
Akhilesh Kumar	Skill Development	NEP Orientation and Sensitization Programme	16-01-2024	University of Rajasthan
Akhilesh Kumar	Student Diversity and Inclusive Education	NEP Orientation and Sensitization Programme	23-01-2024	Dr. Harisingh Gour Vishwavidyalaya
Akhilesh Kumar	Higher Education and Society	NEP Orientation and Sensitization Programme	27-01-2024	North-Eastern Hill University , Shillong
Akhilesh Kumar	Creating and Selecting Materials that cater to diverse learning styles	Online National Seminar on Tailoring Education: Differentiated instructional strategies for addressing individual needs in Communication Disorders	29-01-2024	All india Institute of Speech and hearing Mysuru
Akhilesh Kumar	Higher Education and Society	NEP Orientation and Sensitization Programme	31-01-2024	Osmania University
Akhilesh Kumar	Understanding Children in Multiple Contexts	Counselling Classes of Child Rights Programme	04-02-2024	Sardar Patel Police University, Jodhpur
Akhilesh Kumar	Developmental Process: Issues and Challenges: Cognitive, Emotional and Moral	Counselling Classes of Child Rights Programme	04-02-2024	Sardar Patel Police University, Jodhpur

Akhilesh Kumar	Higher Education and Society	NEP Orientation and Sensitization Programme	07-02-2024	MMTTC, Devi Ahilya Vishwavidyalaya Indore
Akhilesh Kumar	Perspectives of Self and Personality Development: Attributes of Personality, Theories of Personality Development, Deviant personality	Counselling Classes of Child Rights Programme	11-02-2024	Sardar Patel Police University, Jodhpur
Akhilesh Kumar	Educational Provisions of RPWD Act 2016	National Level CRE Programme on Inclusive Learning Environment at School	13-02-2024	NIPVD, Mizoram university and Samagra Shiksha and CRC Guwahati
Akhilesh Kumar	Classroom Strategies for Students with IDD	National Level CRE Programme on Inclusive Learning Environment at School	13-02-2024	NIPVD, Mizoram university and Samagra Shiksha and CRC Guwahati
Akhilesh Kumar	Assessment for Learning	National Level CRE Programme on Inclusive Learning Environment at School	14-02-2024	NIPVD, Mizoram university and Samagra Shiksha and CRC Guwahati
Akhilesh Kumar	Creating a stimulating classroom environment	National Level CRE Programme on Inclusive Learning Environment at School	14-02-2024	NIPVD, Mizoram university and Samagra Shiksha and CRC Guwahati
Akhilesh Kumar	Removing Infrastructural Barriers	National Level CRE Programme on Inclusive Learning Environment at School	15-02-2024	NIPVD, Mizoram university and Samagra Shiksha and CRC Guwahati
Akhilesh Kumar	Higher Education and Society	NEP 2020 orientation and sensitization programme	19-02-2024	MMTTC, DAVV, Indore

Akhilesh Kumar	Removing Infrastructural Barriers	Three Days CRE Programme at Guwahati, Assam Topic: Inclusive Learning Environment at School (26-28 Feb 2024)	26-02-2024	NIEPVD and CRC Guwahati
Akhilesh Kumar	Inclusive Education an NEP 2020	Three Days CRE Programme at Guwahati, Assam Topic: Inclusive Learning Environment at School (26-28 Feb 2024)	26-02-2024	NIEPVD and CRC Guwahati
Akhilesh Kumar	Creating a stimulating classroom environment	Three Days CRE Programme at Guwahati, Assam Topic: Inclusive Learning Environment at School (26-28 Feb 2024)	27-02-2024	NIEPVD and CRC Guwahati
Akhilesh Kumar	Stratejies and Provisions for Inclusive Eudcation and the NEP 2020	NEP 2020 orientationa and sensitization programme	29-02-2024	MMTTC, Osmania University
Akhilesh Kumar	Introduction to Counselling: Definition, Peronal and professional aspects, Qualities of Good Counsellor	Counselling Classes of Child Rights Programme	10-03-2024	Sardar Ptel Police University, Jodhpur
Akhilesh Kumar	Stratejies and Provisions for Inclusive Eudcation and the NEP 2020	NEP 2020 orientationa and sensitization programme	11-03-2024	MMTTC, Sagar university
Akhilesh Kumar	Stratejies and Provisions for Inclusive Eudcation and the NEP 2020	NEP 2020 orientationa and sensitization programme	11-03-2024	MMTTC Sagar University

Akhilesh Kumar	Goals of Counselling: Conflict resolution, Behaviour Modification and improving Relationship, Ethical and Legal Aspects of Counselling	Counselling Classes of Child Rights Programme	17-03-2024	Sardar Patel Police University, Jodhpur
Yeasmin Sultana	Preparedness of Teacher Education Institutions for Inclusive Development	Panel Discussion	28-08-2023	Department of Education, TU
Padmavathy, R.D.	Sustainable Development Goals through Educational Practice	National Consultative Meet on "SDG 4.7 : Policies and Practices in Schools Education"	03-03-2024 to 05-03-2024	Planning and Monitoring Division, NCERT at CIET, New Delhi
Mohammad Asif	Preparedness of Teacher Education Institutions for Inclusive Development	Panel Discussion	28-08-2023	Department of Education, Tezpur University
Sradhanjali Pradhan	NEP recommendation on Science Education	Panel Discussion on the Preparedness of the Teacher Education in respect of Inclusive Education	28-08-2023	Dept. of Education, Tezpur University
Akash Ranjan	Holistic Development through Teacher Education: NEP2020	Holistic Development through Teacher Education: NEP2020	17-12-2023	Kamla Bhubaneswari B.Ed. College, Chandour, Bhagwanpur, Begusarai, Bihar, India

Akash Ranjan	Interaction between School and Society @ NEP 2020	Interaction between School and Society @ NEP 2020	4 - 11- 2023	Tara College of Education, Bikanpur, Begusarai, Bihar, India
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Other Significant Activities of the Department

1. Celebrated World Book & Copyright Day on 24th April 2023
2. Awareness campaign on the theme "Innovative Ways to Conserve Water" on 6th May 2023
3. Interactive Session on the theme "Aatmanirbhar Bharat" on 23rd May 2023
4. Workshop on 'Best out of Waste' Theme: Sustainability/ Lifestyle for Environment on 10th August 2023
5. Panel Discussion on the Topic Preparedness of the Teacher Education in respect of Inclusive Education on 28 August 2023
6. Workshop on Self Defense, 29th and 30th August 2023
7. National Education Day Celebration on 11th November 2023

Number of Students Qualified in NET-JRF/SLET/GATE etc.

Name of Qualifying Examination	Number of Qualified Students	Academic Programme
NET	06	M.A. in Education
SLET	03	M.A in Education
JRF	01	B.Ed.
SLET	02	B.Ed.

Notable Placement of Students

Name of Student	Academic Programme	Placement Designation	Company/ Organization	Mode of Selection
Monisha Borah	M.A in Education	Assistant Professor	Sapatgram College	Interview
Mayuri Das	M.A in Education	Assistant Professor	N. N Saikia College, Titabor, Jorhat	Interview
Debika Dadhara	M.A in Education	Assistant Professor	Margherita College	Interview

Kannaki Bora	M.A in Education	Assistant Professor	Mahendra Narayan Choudhury Balika Mahavidyalaya, Nalbari, Assam	Interview
Anusmita Mondal	Two Year B.Ed.	Assistant Teacher, Upper Primary	Katlitari ME Madrasa, Goalpara	Interview
Mallika Sarma	Two Year B.Ed.	Assistant Teacher, Upper Primary	Hareswar Guwala MES, Kuwari, Biswanath	Interview
Migom Pegu	Two Year B.Ed.	PGT (Mathematics)	Rajgarh Higher secondary school, Rajgarh, Joypur, Dibrugarh	Interview
Jurishmita Borah	Two Year B.Ed.	Assistant Teacher, Upper Primary	Santipur Majgaon ME school , Lakhimpur	Interview
Dimpul Sharma	Two Year B.Ed.	Assistant Teacher, Upper Primary	Pachim Ghilamara MES	Interview
Raja Upadhyaya	Two Year B.Ed.	Assistant Teacher, Upper Primary	Hatiamora MES, Lakhimpur	Interview
Haripriya Dutta	Two Year B.Ed.	Assistant Teacher, Upper Primary	Adarsha Mahimabari MES , Jorhat	Interview
Prastuti Handique	Two Year B.Ed.	Assistant Teacher, Upper Primary	Shastriji MES, Dibrugarh	Interview
Saswati Gogoi	Two Year B.Ed.	Assistant Teacher, Upper Primary	Swahid Mujamil Hoque ME School, Morigaon	Interview
Visakha Ghosh	Two Year B.Ed.	Assistant Teacher, Upper Primary	Chhaygaon Govt. M.V. School	Interview
Kakali Sharma	Two Year B.Ed.	Guest Faculty	Nalbari College	Interview
Ankur Borah	Two Year B.Ed.	Science Teacher	Tengakhat Senior Basic School	Interview
Prarthana Devi	Two Year B.Ed.	Assistant Teacher, Upper Primary	Rangali Pather MES, Dibrugarh	Interview
Rakhee Gogoi	Two Year B.Ed.	Assistant Teacher, Upper Primary	Hingrijan ME School, Sivasagar	Interview

Ananya Gogoi	Two Year B.Ed.	Assistant Teacher, Upper primary	Rongbong Srimanta Sankar Dev MES, Golaghat	Interview
Hiranya Devi Phukan	Two Year B.Ed.	Assistant Teacher, Upper Primary	Merbil MVS, Lakhimpur	Interview
Devolokhi Deori	Two Year B.Ed.	Assistant Teacher, Upper Primary	Bagdevi MES, Dhemaji	Interview
Bini Borgohain	Two Year B.Ed.	Assistant professor	Lanka Mahavidyalaya, Lanka, Hojai	Interview
Purbashri Saikia	Two Year B.Ed.	Assistant Teacher in Upper Primary	Morongi MVS, Golaghat	Interview
Barasha Sonowal	Two Year B.Ed.	Assistant Teacher	MALUWAL AMTOLA LPS, Lakhimpur	Interview
Bidisha Konwar	Two Year B.Ed.	Assistant Teacher	Haripur LPS, Lakhimpur	Interview
Krishna Deka	Two Year B.Ed.	PGT (Education)	Paschim Banbhag Hr. Sec. School, Nalbari	Interview
Nipu Borah	Two Year B.Ed.	Assistant Teacher, Upper Primary	Atgharitari M.E School, Agomoni, Dhubri	Interview
Jahanabi Bora	Two Year B.Ed.	Science Teacher	Naharkatia Govt. MVS, Dibrugarh	Interview
Dimpoly Toppo	Two Year B.Ed.	Programme Cum Script Writer (PCSW)	SCERT under Department of School Education, Assam	Interview
Barsha Bhakta	Two Year B.Ed.	Jr. Assistant	O/o The Executive Engineer, PWRD, Tezpur	Interview
Wahida Rahman	Two Year B.Ed.	Assistant Teacher in Upper Primary	ADARSHA MES, JORHAT	Interview
Bhaskar Jyoti Gogoi	Two Year B.Ed.	Junior Assistant	Public Works Department, Mechanical Division, Jorhat	Interview

Lakhyadipa Basumatary	Two Year B.Ed.	Tax Collector Cum Road Mohorar	BIHAGURI DEVELOPMENT BLOCK	Interview
Priyanka Baniya	Two Year B.Ed.	TGT English	Kendriya Vidyalaya Central University Tezpur, Tezpur, Assam	Interview
Pallabi Das	Two Year B.Ed.	Assistant Professor (Psychology)	University of Science and Technology, Meghalaya	Interview
Parishmita Das	M.A in Education	Assistant Professor	PDUAM, Behali	Interview
Juti Das	M.A in Education	Lecturer in Education	Govt. College of Teacher Education, Kokrajhar	Interview
Priyanka Nath	M.A in Education	Lecturer in Education	College of Teacher Education, Tezpur	Interview
Priyanka Kalita	Two Year B.Ed.	Lecturer in Education	Govt. Shikshan Mahavidyalaya, Nagoan	Interview
Moushumi Pathak	Two Year B.Ed.	Assistant Professor	Govt. Model College , Balipara	Interview
Swapna Sikha Das	M.A., Ph.D.	Assistant Professor	Darrang College, Tezpur	Interview
Happy Saikia	Ph.D.	Assistant Professor	Raha College	Interview
Prasanta Das	Two Year B.Ed.	Assistant Professor	J.B College , Jorhat	Interview
Dikshita Borah	Two Year B.Ed.	Assistant Professor	Pandit Deendayal Upadhyaya Adarsha Mahavidyalaya, Tulungia	Interview
Rejina Borah	Two Year B.Ed.	Assistant Professor	Gargaon College	Interview
Bismita Deka	M.A in Education	Assistant Professor	Govt. Model College , Balipara	Interview

Enrollment of Students in other Institutes for Higher Studies

Name of Student	Academic Programme	Name of other Institute	Enrolled Academic Programme
Sumi Bhagawati	MA IN EDUCATION	Tezpur University	B.Ed.
Dipsikha Das	MA IN EDUCATION	Tezpur University	B.Ed.
Gayatri Chetia	MA IN EDUCATION	Tezpur University	B.Ed.
Hena Dihingia	MA IN EDUCATION	Tezpur University	B.Ed.
Meera Kumari	MA IN EDUCATION	Tezpur University	B.Ed.
Kunal Sharma	MA IN EDUCATION	Tezpur University	P.h.D.
Bornali Devi	MA IN EDUCATION	Tezpur University	B.Ed.
Himashri Dutta	MA IN EDUCATION	Tezpur University	Ph.D.
Niharika Das	MA IN EDUCATION	Tezpur University	Ph.D.
Himma Chettri	MA IN EDUCATION	Tezpur University	Ph.D.
Kakoli Baishya	MA IN EDUCATION	Tezpur University	Ph.D.
Bhaswati Sharma	TWO YEAR B.ED.	Tezpur University	Ph.D.
Suprabha Das	TWO YEAR B.ED.	RIE , Bhubaneswar	M.Ed.
Izamin Akhtar	TWO YEAR B.ED.	Dibrugarh University	M.A.
Baishali Goswami	MA IN EDUCATION	Biswanath College of Education	B.Ed.
Hiramonni Deka	MA IN EDUCATION	Deomornoi B.Ed. College	B.Ed.
Babita Deka	MA IN EDUCATION	DIET	B.Ed.
Tiyasa Das	MA IN EDUCATION	Rajiv Gandhi University	Ph.D.
Poonam Subedi	MA IN EDUCATION	Rajiv Gandhi University	Ph.D.
Medha Mishra	TWO YEAR B.ED.	RIE , Bhubaneswar	M.Ed.
Tutumoni Phukan	MA IN EDUCATION	Tezpur University	B.Ed.
Shrutismita Dutta	MA IN EDUCATION	KKHSOU	Ph.D.

Rukmini Basumatary	MA IN EDUCATION	Dr. Sarvapali Radhakrishnan Teachers Training And Research Institution, Chamata	B.Ed.
Elisa Moran	MA IN EDUCATION	Parijat Academy Teacher Education Institute	B.Ed.
Minhaz Begum	MA IN EDUCATION	Bongaigoan B.Ed. College	B.Ed.
Sagarika Das	MA IN EDUCATION	Tezpur CTE	B.Ed.
Dikshita Saikia	MA IN EDUCATION	Tezpur CTE	B.Ed.
Shahmina Akhtara Begum	MA IN EDUCATION	Natural College of Education, West Bengal	B.Ed.
Bhabashree Rajkhowa	MA IN EDUCATION	Nazir Ajmal Memorial College of Education, Hojai	B.Ed.
Aashiyana Aazmin Hussain	TWO YEAR B.ED.	Tezpur University	Ph.D.
Ritupriya Neog	MA IN EDUCATION	Tezpur University	B.Ed.
Barsha Borah	MA IN EDUCATION	Tezpur University	B.Ed.
Deeksha Bordoloi	TWO YEAR B.ED.	Assam Women's University	Ph.D.
Shaheen Rahman	MA IN EDUCATION	KKHSOU	Ph.D.
Prarthana Borah	TWO YEAR B.ED.	KKHSOU	Ph.D.

DEPARTMENT OF FOREIGN LANGUAGES

About the Department:

The Department of Foreign Languages was established in 2019. It offers a full-time Four Year Under Graduate Programme in BA in Chinese as per NEP 2020, Open Elective Choice Based Credit Type Courses in German, French and Chinese languages and Skill Enhancement Courses in German. The Department is committed to foster professionals with competent skills in languages, intercultural communication, international affairs and cultural understanding from various perspectives. Apart from conventional courses, the Department, at the request of the Indian Army, offered a short-term Chinese course for selected personnel under a special MoU drawn between the Indian Army and the University. The Department organized a Faculty Development Programme for foreign-language faculty and held several invited talks and online talks by experts as part of its China Studies lecture series. The Department also organized two national seminars in the years 2023 and 2024.

Academic Programmes and Student Intake

Academic Programme	Student Intake
<i>BA in Chinese</i>	20
<i>Customized Training Course in Chinese</i>	15

Thrust Research Areas of the Department/Centre

- Cross-cultural studies in foreign languages, literature and film
- Theory & practice in translation studies
- Trends in foreign language studies

Major Facilities/Equipment available

- ICT enabled classroom

Faculty Members

Designation	Name	Highest Qualification (Institute)	Specialization	<email>	Date of holding the current position
<i>Associate Professor</i>	Dr. Hemjyoti Medhi	Ph.D. (University of Delhi)	Gender and Literature, Women's Movements,	h jyoti	08-07-2023

			Vernacular Public Spheres, Oral History, Digital Humanities, Indian Literature in Translation		
	Rathijit Chakraborty	M. Phil (JNU)	Chinese language and Literature, Chinese Folk literature, Teaching Chinese language, Translating Technical and Non-technical documents [from Chinese to English & vice versa], Chinese calligraphy	rathijit	01-07- 2019
	Pallavi	Ph.D. (JNU)	German Literature and Language, Literature Emotions and Violence, Literature and Conflict situations, Gender Studies, Comparative Studies, Translation Studies, Digital Humanities	manjari23	12-02- 2020
	Daveirou Lanamai	M.A. (Chinese Studies) (JNU)	Chinese Language, Literature &	davei	12-02- 2020

			Culture, Onomastic Studies, (Anthroponymy & Toponym) Intercultural Studies		
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Officers and Staff Members

Designation	Name	<email>@tezu.ernet.in	holding the current position
Office Assistant	Manjil Borah		27-08-2024
MTS	Ranjit Saikia	saikia	01-07-2019

Publications by Faculty Members

Publication of Books/Monographs

- Medhi, Hemjyoti. *Gendered Publics: Chandraprava Saikiani and the Mahila Samitis in Colonial Assam* (Oxford University Press, 2024).

Publication of Articles in Journals

- Pallavi: “Nexus of Memory, Forgetting and History. ‘White Russian’ as Prisoner in the Nazi Concentration Camps: Memoir of Alexandra Jusefowitsch”, in: *CRITIC: Journal of the Centre of Russian Studies* (UGC Care Listed), Centre of Russian Studies, School of language Literature and Culture Studies, Jawaharlal Nehru University, New Delhi. ISSN number: 2229-7146, Issue no. 21, 2023. Pages: 105-112. (Also available online: https://www.jnu.ac.in/sllcs/crs_critic21).
- Medhi, Hemjyoti. “ ‘In Search of Our Mothers’ Gardens’: Weaving Matrilineal Yarns in Easterine Kire’s *A Terrible Matriarchy* and Tilottoma Misra’s *Ka Meikhar Ghar/High Wind* ”
Vol. 44, Issue 3-4, Pages 278-290. ISSN 0275-9527 Published online: 27 Jul 2023 <https://doi.org/10.1080/02759527.2023.2240989> (SCOPUS)
<https://www.tandfonline.com/doi/full/10.1080/02759527.2023.2240989?src=>

Project Completed

- Capacity Building to Challenge Gender Discrimination in Selected Tea Gardens of Assam. Funded by INKOTA, Germany and Supported by Tezpur University. From April, 2024 to July, 2024. (PI: Dr Hemjyoti Medhi Co-PI: Dr Moushumi Kandali, Co-PI: Dr. Samhita Barooah)

Pedagogy and Content Development

- Customized Chinese Language Course for Army (A Special Training Module as per requirement of Indian Army)

Conference/Workshop/Symposium/Seminar/ Talks etc. Attended/Presented

Name of Faculty/ Staff Member	Purpose of Attending	Title of Event	Date/Period	Organizer and Venue
Rathijit Chakraborty	Paper presentation (Title: Journeys of Self-Discovery: Exploring Themes of Travel, Identity, and Cultural Exchange in Contemporary Literature)	National Seminar on “Wanderlust: Travel Writing/Narratives in Foreign Languages	06-03-2024 to 06-03-2024	Organized by the Department of Foreign Languages, Tezpur University, Assam.
	Paper Presentation (Title: ‘Tainted Narratives’: Narratives of/against ‘Shaming’ the Victims/Survivors of Sexual Violence’)	The 9th JGU International Literary Conference on “The Gender Question: Diverse Terrains; Multiple Views”	05/12/2023-06/12/2023	Organized by the Office of English & Foreign Languages (OEFL), O.P. Jindal Global University.
	Paper Presentation (Title: ‘Wanderlust of Ida Pfeiffer (1797-1858): A Woman Traveller from Austria’)	National Seminar on “Wanderlust: Travel Writing/Narratives in Foreign Languages	06-03-2024 to 06-03-2024	Organized by the Department of Foreign Languages, Tezpur University, Assam.

Hemjyoti Medhi	“Gendering Publics: Readings from a Mahila Samiti Archive in Colonial Assam”	Invited Talk and Book Discussion	19-03-2024	Centre for Women’s Studies. JNU, New Delhi
	“Angst ridden Archives! Redefining Workplace and Mental Health for Women”	Keynote Speech II: National Seminar on “Gender Discrimination at Workplace and Women’s Mental Health”	28-29 December 2023	ICSSR, New Delhi and Department of English and IQAC, Nowgong College, Nagaon

Other Significant Activities of the Department

- 16-week Customized Course in Chinese for Army (4 Corps), August 2023 to November 2023.
- National Seminar on “**Wanderlust: Travel Writing/Narratives in Foreign Languages**,” organized by Department of Foreign Languages, Tezpur University on 6th and 7th March 2024.
- The Department of Foreign Languages, Tezpur University interacts with Advancing North-East. (20/12/2024) and created digital content to spread awareness about benefits of learning foreign languages in view of NEP 2020.
- The Department of Foreign Languages and the Department of English organized a talk titled “What is ‘Writing’ in Meitei Puyas: Preliminary Findings from My Book Project” by Dr Natasa Thoudam, Assistant Professor, Dept. of HSS, IIT Jodhpur on 24th June, Seminar Hall, Department of English, HSS Building.
- Faculty Members Mr Rathijit Chakraborty, Ms Daveirou Lanamai and Dr Pallavi performed as Resource Persons for Soft Skill Development Workshop for SSB, Salonibari.
- Celebrated 9th November 2023 as the Historic Day for the German Speaking World, students in SEC German created posters, presented in Class and discussed its significance.
- Chinese Spring Festival Celebrated on 27th February 2024. Students performed Chinese songs, skits, and poems.

DEPARTMENT OF LAW

About the Department

The Department of Law was established in the year 2017 under the school of Humanities and Social Sciences with a vision to produce legal luminaries to add value in the field of teaching, judiciary, law- making, law enforcement officers and, most importantly, work for the society as a good citizen. Presently, the Department offers a two-year Master of Laws (LL.M.) programme with specializations in Human Rights Laws and Criminology & Criminal law. The objective of the programme is to make the Department a vibrant centre of legal education and research and give an opportunity to all aspirants who wants to be good academicians and researchers and work for social transformation. Two batches of the Department have successfully post-graduated in the year 2020 and 2021, respectively. The Department has also started PhD in Law from July, 2024.

The Department is making progress with the existing four young and energetic permanent faculties and Guest faculties, giving meaning to the designed curriculum not only from theoretical but pragmatic aspects emphasizing on teaching inter-disciplinary facets. The faculty members have a wide range of interests and expertise in areas such as Constitutional Law, Judicial Process, Jurisprudence, Human rights, Migration laws, Environment Laws, Criminal laws, Juvenile Justice, etc. The Department makes an effort to expose the students to the prevailing social realities and legal developments through activities such as outreach programmes, Seminars, Workshops, Panel Discussions etc. Moreover, it is the Department's priority to inculcate among students teaching methods & ethics, promote inter-disciplinary research, provide free legal assistance for persons in need and inspire students for competitive examinations. The department has proposed to start the Five-Year B.A.LL.B.(Hons.) and Ph.D. Programmes.

Academic Programmes and Student Intake

Academic Programme	Student Intake
<i>Master of Laws (LL.M.)</i>	25
<i>PhD in Law</i>	

Thrust Research Areas of the Department

- Constitutional Law
- Judicial Process
- Law and Social Transformation
- Criminal Law
- Human Rights Laws

Major Facilities/Equipment available

- Central Library with Law text books, reference books and journals

- Subscription of SCC Online and Manupatra
- ICT enabled classroom
- Computer Lab

Faculty Members

Designation	Name	Highest Qualification (Institute)	Specialization	Email	Date of holding the current position
	Dr. Priya Ranjan Kumar	Ph.D. (Gauhati University)	Constitutional Law, Administrative Law, Judicial Process, Jurisprudence, Law of Contract, and Socio Economic Offences	pranjan@tezu.ernet.in	12-12-2019
	Dr. Gitanjali Ghosh	Ph.D. (NLSIU, Bengaluru)	Human Rights Law, International Law, Family Law, Child Law, Gender and Law, and Customary Laws	gghosh@tezu.ernet.in	01-11-2023
	Dr. Madhumita Acharjee	Ph.D. (Assam University)	Criminal Law, Criminology, Juvenile Justice, and Rights of elderly persons	madhuap@tezu.ernet.in	Joined on 16/01/2017 and promoted to Level-11 on 16/01/2022

	Mr. Debajit Kumar Sarmah	LL.M. (IP University, Delhi)	Criminology and Criminal Law	dksarmah@tezu.ernet.in	06-02-2017
	Angel H. Syiem	LL.M. (Symbiosis Law School, Pune)	Human rights, International Law, and Tribal issues	angelsy@tezu.ernet.in	11-01-2017
<i>Guest Faculty</i>	Mr. Lekh Raj	LL.M (NLUJA, Assam)	Constitutional Law	Lekh3131@gmail.com	16-10-2023

Officers and Staff Members

Designation	Name	Email	Date of holding the current position
<i>Office Assistant</i>	Mr. Rajib Ahmed	rajib12@tezu.ernet.in	09-09-2022
<i>M.T. S.</i>	Mr. Chand Md. Ali	chandmd@tezu.ernet.in	01-03-1998

Publications by Faculty and Staff Members

Edited Book:

1. VK Ahuja, RN Sharma and Gitanjali Ghosh (eds), *Outcome Based Education and Research: A Multidisciplinary Approach* (National Law University and Judicial Academy, Assam 2024).

Publication of Articles in UGC-CARE Listed Group I/Group II Journals

1. Gitanjali Ghosh and Shishir Tiwari, 'Dissecting International Criminal Courts' Arrest Warrants: Puissant or Paper Tiger' (2023) V CMR University Journal for Contemporary Legal Affairs 262.
2. Samraggi Chakraborty and Madhumita Acharjee, 'Comprehending the Concept of Evolving Capacity of Children' Vol.: (2023) Vol.: XXVI, No.: 11 Rabindra Bharati Patrika, 95-101
3. Ms. Bornali Bordoloi & Dr. Priya Ranjan Kumar, Study of Environmental Activism in the Dehing Patkai Rainforest in Assam as an Indicator of Emerging Trends in Sustainable Environment, *Education and Society*, Special Issue-I Vol II, May 2023, pp.425-435.

- Priya Ranjan Kumar & Angel H. Syiem, Administration of Jammu and Kashmir: A Study in the context of Abrogation of Art.370, *Bihar Journal of Public Administration*, Vol. XX, No. 1, June 2023, pp24-34.

Law Reports:

- Debajit Kumar Sarmah, The Annual Survey of State Laws in India-2023 for the State of Meghalaya sponsored by NALSAR University of Law, Hyderabad (Forthcoming)

Publication of Articles in Peer Reviewed Journals:

- Gitanjali Ghosh and Shishir Tiwari, 'Realizing Marriage Equality in India vis-à-vis Mizo Customary Marriage Laws' (2023) VII NLUA Law Review 1.

Pedagogy Development:

- Debajit Kumar Sarmah, Course on 'Criminology, Penology and Victimology' for Swayam Prabha at IIT Kanpur during March 27-March 31, 2024
-

Conference/Workshop/Symposium/Seminar etc. Attended

Name of Faculty	Purpose of Attending	Title of Event	Date/Period	Organizer and Venue
Dr. Gitanjali Ghosh	Short Term Course	Short Term Course on NEP Orientation & Sensitization	February 19-28, 2024	Malaviya Mission Teacher Training Centre, Tezpur University
Dr. Gitanjali Ghosh	Paper presentation in Conference	International Conference on Comparative Law: A Story of Convergences, Divergences and Exploitation of Liminal Spaces	February 17, 2024	VIT-AP School of Law (VSL), VIT-AP University and Birmingham Law School, University of Birmingham at VIT-AP University, Andhra Pradesh
Dr. Madhumita Acharjee	National Workshop	Leadership Development for Deans of Faculty and Heads of Department	February 21-23, 2024	NIEPA, New Delhi in collaboration with Department of Education, Tezpur university
Dr. Madhumita Acharjee	National Seminar	Emergence of Bharat: Its Significance,	March 01-02, 2024	Heritage Foundation in Collaboration with Dispur Law College

		Challenges and Way Forward		
Debajit Kumar Sarmah	Workshop on Research Methodology	Annual Survey of State Laws, 2023	June 24, 2023	NALSAR University of Law, Hyderabad

Invited Talk

Name of Faculty Member	Title of the Talk	Title of the Event	Date	Organizer and Venue
Dr. Gitanjali Ghosh	Salient Features on Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act, 2013 and the Rules under the Act”	Online Training on Sexual Harassment of Women at Workplace (Prevention, Prohibition, and Redressal) Act, 2013	February 16, 2024	National Institute of Public Cooperation and Child Development (NIPCCD), Regional Centre Mohali
Dr. Gitanjali Ghosh	Property Rights of Women under Christian Law	Regional Consultation on Law Review of the Property Rights of Women in India	December 23, 2023	National Commission for Women in collaboration with Centre for Gender Justice, National Law University and Judicial Academy, Assam
Dr. Gitanjali Ghosh	An Overview of Legal Framework for Protecting Children	Training Programme on Management of Child Care Institutions for Superintendents of CCIs	December 19, 2023	National Institute of Public Cooperation and Child Development (NIPCCD), New Delhi

Dr. Gitanjali Ghosh	Moot Court and Internship	Orientation Programme for Moot Court and Internship	December 16, 2023	Tezpur Law College
Dr. Gitanjali Ghosh	Human Rights of Sexual Minorities	One Week Online Faculty Development Programme on Emerging Dimensions of Human Rights	December 12, 2023	IQAC, RKB Law College, Dibrugarh
Dr. Gitanjali Ghosh	Women Rights and Laws in India	One Day Online Training Programme on “Women Rights, Health, Hygiene and Wellbeing	November 18, 2023	State Institute of Panchayat and Rural Development
Dr. Gitanjali Ghosh	Succession Laws in North-East India	Special Lecture	November 13, 2023	National Law School of India University, Bengaluru
Dr. Gitanjali Ghosh	Protection of Children from Sexual Offences Act & Rules: An Overview	Online Sensitization Programme on Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act, 2013 and POCSO Amendment Act, 2019 for the Teachers and Staff Members of Navodaya Vidyalaya, Lucknow, U.P. (2nd Batch)	November 03, 2023	National Institute of Public Cooperation and Child Development (NIPCCD), Regional Centre Lucknow
Dr. Madhumita Acharjee	Preamble of Indian Constitution	Constitution Day, 26 th November, 2023	November 26, 2023	KV, Tezpur, Tezpur University
Dr. Priya Ranjan Kumar	A quinquennial evaluation of Assam Startup Policy 2017: Issues and Challenges ahead	Three Day ICSSR Sponsored National Seminar on Startup Business: A way towards Economic Development of North East India	May 5, 2023	Department of Economics and Department of Commerce, Karimganj, Karimganj Assam (Online)

Dr. Priya Ranjan Kumar	Role of Judiciary in Shaping the Contours of Transformative Constitutionalism	National Seminar on Constitutionalism & Transformative Constitutionalism: Enhancing Quality Democracy and Rights for All	August 8, 2023	University School of Law and Research, USTM, Meghalaya
Dr. Priya Ranjan Kumar	Artificial Intelligence as a tool of Legal Research	Harnessing Artificial Intelligence for Constitutional Research Analysis	August 9, 2023	IQAC, J.B. Law College, Guwahati
Dr. Priya Ranjan Kumar	Constitutional Morality: A tool for Social Transformation and Justice	Azadi ka Amrit Mahotsav	August 21, 2023	MDDM College, Muzaffarpur
Dr. Priya Ranjan Kumar	Legal Self Defense	Azadi ka Amrit Mahotsav (AKAM)	August 29, 2023	Department of Education, Tezpur University
Dr. Priya Ranjan Kumar	Introduction to Human Rights	One Day Online Basic Training Programme on Human Rights	September 12, 2023	Department of Law, Tezpur University in collaboration with NHRC, New Delhi (Online)
Dr. Priya Ranjan Kumar	Narration on Transformative Constitutionalism	Refresher Course in Law	September 16, 2023	UGC-HRDC, University of Lucknow, Lucknow (Online)

Other Significant Activities of the Department

- Department of Law organizes Lecture on Crime, Criminology and Criminal Law: Contemporary Issues on 7th June 2023
- Invited Alumni Talk on 3rd August 2023 in Department
- Invited talk on “E-WORKSHOP ON SCC ONLINE DATABASE SEARCH AND LEGAL RESEARCH” on 7th August 2023
- Two Days Workshop on Legal Database and Research on 24 and 25th August 2023.

- One Day Online Basic Training Programme on Human Rights on 12th September 2023.
- Department of Law organized Poster Making event to observe World Children's Day on November 20, 2023
- Department of Law is organizing an Online Special Lecture to observe Constitution Day (Samvidhan Divas) on November 29, 2023
- Invited Lectures on “One- Day Colloquium on New Criminal Laws” on 13th March 2024.

Number of Students Qualified in NET-JRF/SLET/GATE etc.

Name of Qualifying Examination	Number of Qualified Students	Academic Programme
<i>AIBE</i>	13	Master of laws (L.L.M.)

Notable Placement of Students

Name of Student	Academic Programme	Placement Designation	Company/ Organization	Mode of Selection
Devapreeti Sharma	Master of Laws (LL.M.)	Assam Judicial Services (AJS)	The Gauhati High Court High Court of Assam, Nagaland, Mizoram and Arunachal Pradesh	Off Campus
Jintismrita Devi	Master of Laws (LL.M.)	Assam Judicial Services (AJS)	The Gauhati High Court High Court of Assam, Nagaland, Mizoram and Arunachal Pradesh	Off Campus

DEPARTMENT OF LINGUISTICS AND LANGUAGE TECHNOLOGY

About the Department

Established in March 2022 as an independent Department, the *Department of Linguistics and Language Technology*, which was part of the Dept. of English before, offers a two-year Master's in Linguistics and Language Technology and guides PhD research in the discipline. The Department has expertise in Syntax, Cognitive Linguistics, Philosophy of Language, Language Documentation, Field Linguistics, Phonetics, Phonology, Experimental Phonology, Sociolinguistics, and Computational Linguistics. The Department, in collaboration with the *Centre for Endangered Languages*, which was established in 2014 at the University and is now attached to it, carries out research in linguistics with a special focus on the languages of the Northeast, perhaps linguistically the richest yet most diverse area in India with its majority of lesser-known or under-studied languages.

The vision of the Department is to become a leading Centre of linguistic inquiry and research in the country as well as in South East Asia. Its mission is to impart knowledge of all the major branches of modern linguistics and linguistic thought to the students through quality teaching with a learner-centered approach with a well-designed master course syllabus covering the latest developments in the discipline and to encourage excellence in linguistic research; to produce young linguists who will have a clear understanding of how language, 'the most valuable single possession of the human race', works and why; who can build and test theories based on accurate descriptions of languages, sound empirical methodologies and results from a range of disciplines; who can meaningfully apply the knowledge of linguistics in modern technology for technology transfer; in language teaching and also in linguistic issues of the society; to encourage study of all aspects of the lesser known and endangered languages, especially the one spoken in this region, supplementing the efforts of their preservation and revitalization.

Academic Programmes and Student Intake

Academic Programme	Intake
MA in Linguistics and Language Technology	38
PhD in Linguistics and Language Technology/Linguistics/Allied subjects	variable

Thrust Research Areas of the Department

- Linguistic theory
- Linguistic thought
- Linguistic technology
- Endangered languages of Northeast India

Major Facilities/Equipment available

The Department houses the *Centre for Endangered for Languages* so that the students, the research scholars, the faculty and the staff of the Department have easy access to the Library of the Centre which is well-stocked with books on all important areas of linguistics, language endangerment, and language documentation. The Department has also an easy access to the Centre's state-of-the-art Linguistic and the Documentation-Archiving-cum-Recording Laboratories as well as its two advanced multipurpose Seminar-cum Conference Halls. Furthermore, the classrooms of the Department have most facilities of a smart class room.

Faculty Members (Note: Designation and Seniority-wise: First Name in full – Middle Name - Surname)

Designation	Name	Highest Qualification (Institute)	Specialization	<email> @tezu.ernet.in	Since (date since which in the current position)
	Madhumita Barbora	PhD (TU)	Linguistics (Syntax, Psycholinguistic), Field Linguistics, Documentation	mmb@tezu.ernet.in	07.09.2010
	Gautam K. Borah	PhD (NTNU, Norway)	Linguistics (Syntax: Construction Grammar, Semantics), Cognitive Linguistics, Philosophy of Language, Cognitive Poetics, Literary Theory	gkb@tezu.ernet.in	02.07.2012
	NIL				
	Arup Kr. Nath	PhD (JNU)		akn@tezu.ernet.in	20 September 2012
	Bipasha Patgiri	PhD (TU)	Phonetics, Phonology, Historical Linguistics, Sociolinguistics,	bipasha@tezu.ernet.in	21 September 2012

			Typology, Semantics, Ethnolinguistics		
	Amalesh Gope	PhD (IITG)	Acoustic Phonetics, Experimental Phonology, Computational Linguistics, and Language Documentation	amalesh@tezu.ernet.i n	22 April 2016
	Sushanta Rajkhowa	MA, TU PhD Scholar, EFLU, Hyderabad	Generative Syntax, Syntax-Semantics Interface, Linguistic Typology, Historical Linguistics	xuxanta@gmail.com	October 2023
	Reetom Borkotoky	MA, TU PhD Scholar, TU	Cognitive Linguistics, Construction Grammar, General Linguistics, Languages of Northeast India	reetom15@gmail.com	October 2023
	NIL				

Staff Members (Note: Designation and Seniority-wise)

Designation	Name	<email> @tezu.ernet.in	Since (date since which in the current position)
Office Assistant	Dipali Sona Nayak	dipasn@tezu.ernet.in	01 March 2022
MTS	Najmul Hoque	najtu23@tezu.ernet.in	01 June 2023

Major Research and Development Findings:

Faculty/Researcher	Salient Research Findings
Faculty of the Dept of Linguistics and Language Technology and the Coordinator of the Centre for Endangered Languages and staff attached with the Centre.	<i>Centre for Endangered Language:</i> Seven primers of the following endangered languages have been published: Biata, Khelma, Hrangkhoh (Assam); Onaeme, Purum (Manipur); and Yimchunger and Liangmai (Nagaland). Three separate volumes on the syntax, morphology, and phonology of the above-mentioned languages also have been published.

	Also, seven separate tri-lingual dictionaries of these languages are in the making. A common online version of these seven dictionaries will also be made available once their offline versions are ready along with a comprehensive ethnographic account of these languages.
Dr. Arup Kumar Nath, Principal Investigator and 3 Field Assistants associated with the project	<i>Documentation and Revitalization of Ntenyi, Khongdei and Zyphe: Three endangered languages of North East India:</i> Two field trips and two data verification workshops have been completed by the staff of the Centre for Endangered Languages. The data collected are being analyzed.
Dr. Arup Kumar Nath, Project Director and 3 field staff associated with the project	<i>“Locating Implementational Hurdles of Mother Tongue Based Multilingual Education (MLE) in the indigenous languages of Assam viz. Tiwa and Rabha, and creating Grammar teaching Modules and Digital Corpora”,</i>
Dr. Amalesh Gope, Principal Investigator and staff associated with the project	<i>Speech Datasets and Models for Tibeto-Burman Languages (Speed-TB)</i>
Dr. Amalesh Gope, Principal Investigator and staff associated with the project	<i>Online language and cultural resource Center for Deori Scheduled Creation of Linguistic Resources for Sylheti and Chittagonian Languages.</i>
Dr. Amalesh Gope, Principal Investigator and staff associated with the project	<i>Tribe of Assam: Creating an online multimedia dictionary with language translation and pronunciation service.</i>

Research Projects (both Ongoing and New)

Project Title	Funding Agency	Amount (in INR)	Duration	Investigator(s)
UGC Scheme: <i>Centre for Endangered Languages</i>	UGC	60000000.00	5 years (Extended till 31 March 2024)	Faculty of Dept of Linguistics and Language Technology and Centre for Endangered Languages Coordinator: Prof. Gautam K. Borah
<i>Documentation and Revitalization of Ntenyi, Khongdei and Zyphe: Three Endangered Languages of Northeast India</i>	NEC	79,10,000.00	3 years 2020-2023	Principal Investigator: Dr. Arup Kumar Nath

<i>Locating Implementation Hurdles of Mother Tongue Based Multilingual Education (MLE) in the indigenous languages of Assam viz. Tiwa and Rabha, and creating Grammar teaching Modules and Digital Corpora”,</i>	ICSSR	18,00,000.00	2 years 2024-2026	Principal Investigator: Dr. Arup Kumar Nath
<i>Speech Datasets and Models for Tibeto-Burman Languages (Speed-TB): under the Project titled National Language Translation Mission (NLTM): BHASHINI 9 sponsored by Government of India, Ministry of Electronics & Information Technology, urlwww.meity.gov.in.)</i>	MeitY	34,84,000.00	1 ½ years 2022-2023	Principal Investigator: Dr. Amalesh Gope This project aims to create 200 hours of speech datasets for Bodo and Chokri
Creation of Linguistic Resources for Sylheti and Chittagonian Languages.	Defense Research and Development Organisation (DRDO)	9,96,000.00	1 year Jan – Dec 2023 Extended for another 6 months and still continuing	Principal Investigator: Dr. Amalesh Gope This project aims to create digitized datasets consisting of lexical items and sentences for Sylheti and Chittagonian languages that would facilitate preparing a text-to-speech engine for these two languages. This project will likely to

				be completed in August 2024.
Online Language and Cultural Resource Center for the Deori Scheduled Tribe of Assam: Creating an online multimedia dictionary with language translation and pronunciation service.	Indian Council of Social Science Research (ICSSR)	5,00,000.00	1 year 2023 Extension yet to be received for completion	Principal Investigator: Dr. Amalesh Gope This project aims to create an online multimedia dictionary equipped with language translation and pronunciation services, thereby preserving and promoting the Deori language and culture in the digital age. This project will likely to be completed in August 2024.

Publications by Faculty (Journals)

- Ahmed, I. A., Rajkhowa, B. and, **Nath, A. K.** 2023. Linguistic imperialism: A Study of its impact on the Assamese language in the greater Sivasagar District of Assam. *Indian Journal of Language and Linguistics*, <https://doi.org/10.54392/ijll2322> (Peer Reviewed).
- Borah, G. K. 2024. Are classifiers redundant? Individuation and meaning manipulation by classifiers. *IL (Journal of the Linguistic Society of India)*. Vol 85. ISSN -378-0759. (UGC-CARE listed).
- Borah, D. 2024. Multi-class identification of tonal contrasts in Chokri using supervised machine learning algorithms, *Humanities and Social Sciences Communications*. 11(1), 1-13. <https://doi.org/10.1057/s41599-024-03113-2>. Nature.com
- Gogoi, T., Tetseo, S. and **Gope, A.** 2024. Classification of speech question sentences in Chokri using audio-visual and machine learning algorithms. *Jadavpur Journal of Languages and Linguistics*. 6(2), 172-185, ISSN: 2581-494X. (UGC CARE listed)
- Gogoi, T., Tetseo, S. and **Gope, A.** 2023. The phonetics of downtrends in Chokri. Radek Skarnitzl & Jan Volín (Eds.), proceedings of the 20th International Congress

of Phonetic Sciences (pp. 1628–1632). Guarant International. ISBN 978-80-908 114-2-3

- Gogoi, T., and **Gope, A.** 2023. The phonetics of prosodic marking of focus in Sylheti. Radek Skarnitzl & Jan Volín (Eds.), proceedings of the 20th International Congress of Phonetic Sciences (pp. 1638–1642). Guarant International. ISBN 978-80-908 114-2-3
- Joanna, J., Borah, D. and **Gope, A.** 2023. Compounding in Maram. *Jadavpur Journal of Languages and Linguistics*. Volume- 06, No. 01, pp. 123-134, ISSN: 2581-494X
- Kathar, S.E. and **Patgiri, B.** 2023. The kinship system of the Karbi community and significance of the kinship relations in the traditional Karbi rituals. *Anvesan* Vol. 16, pp. 185 – 200, ISSN 2250-2475 (UGC-CARE listed)
- **Patgiri, B.** 2023. Syllable structure and phonotactics in loanword adaptation in Nalbaria Assamese: A constraint-based analysis, in *Anandam* Vol. 12, pp. 435 – 453. ISSN 2394-9023. (UGC-CARE listed)
- Sabnam, Mehsina and **Nath, A.K.** 2024. Semantic features associated with expressives in Mising. *Rabindra Bharati Patrika*, Book Fair Edition, 2024. P.75-90, ISSN 0975-0037. (UGC CARE Listed, Serial No.127)
- Sawarni, B. and **Borah, G.K.** 2024. The grammar and meaning of atemporal complement clauses in Assamese. *Himalayan Linguistics*, Vol- 23 (1), Pg. 43 – 56, ISSN: 1544 – 7502 (UGC-CARE listed)
- Sharma, P., **Talukdar, P.** and **Patgiri, B.** 2024. Traditional cuisine and rice beer of the Barman Kachari community of Assam: An ethnographic study. *Anandam* Vol. 13, pp. 43 – 57, ISSN 2394-9023. (UGC-CARE listed)
- Shil, P. and **Borah, G. K.** 2023. Mental spaces in mood and modality in Sylheti. *Jadavpur Journal of Languages and Linguistics*, ISSN: 2581-494X
- Tripura, K. and **Patgiri, B.** 2023. Sesqui-syllables and consonant phonotactics of the Dendok variety of Tripura language spoken in Bangladesh. *Aligarh Journal of Linguistics (AJL)* Vol. 13, pp. 21 – 36, ISSN 2249-1511 (UGC-CARE listed)

Conference proceedings:

Kumar R., Meiraba T., Lahiri B., **Gope, A.**, Ratan S., Mathur N., Singh S. 2023. Collecting Speech Data for Endangered and Under-resourced Indian Languages. 2nd Annual ELRA/ISCA SIG Meeting on Under-resourced Languages (SIGUL 2023). 10.21437/SIGUL.2023-4.

Gogoi, T., and **Gope, A.** (2023). The Phonetics of Prosodic Marking of Focus in Sylheti. Radek Skarnitzl & Jan Volín (Eds.), Proceedings of the 20th International Congress of Phonetic Sciences. Guarant International, Prague, pp. 1638-1642, ISBN 978-80-908 114-2-3 <https://guarant.cz/icphs2023/957.pdf>.

Gogoi, T., Tetseo, S., and **Gope, A.** (2023). The Phonetics of Downtrends in Chokri. Radek Skarnitzl & Jan Volín (Eds.), Proceedings of the 20th International Congress of

Phonetic Sciences. Guarant International, Prague, pp. 1628-1632, ISBN 978-80-908 114-2-3 <https://guarant.cz/icphs2023/948.pdf>.

Publication of Book Chapters

- Choudhury, S.R.N. 2024. Shared notions of norms of linguistics: A critical discourse. In Gautam K. Boarh (Ed.). *Select Papers from NCLL 2023*, pp. 65-76. ISBN 978-81-968280-5-9.
- **Patgiri, B.** 2024. Phonology of partial reduplication: Unmarkedness of the segments, template, and prosody. In Gautam K. Boarh (Ed.). *Select Papers from NCLL 2023*. pp. 16-32. ISBN 978-81-968280-5-9.
- **Patgiri, B.** 2024. A statistical account of culinary culture of the Mishings in Assam: Assessing cultural and language shift: Evolving narratives. In >>>>>> *Language, Literature and Culture in Northeast India*. New Delhi: Himalayan Publishers. pp 115-135. ISBN 978-81-86393-06-2.
- **Patgiri, B.** 2023. Manifestations of solitude: Reflections of Homen Borgohain's Nixongota. In Bhattacharya, Ranjana (Ed.). *Pragna-Kalpa. Language and Linguistics Centre*. Nalbari College, Assam. pp. 164-169. ISBN 978-81-966816-5-4.
- Talukdar, P. and Borkotoky, R. 2024. Causation in Bodo: A basic force dynamic analysis. In Gautam K. Boarh (Ed.). *Select Papers from NCLL 2023*. pp. 116-129. ISBN 978-81-968280-5-9.
- Manajushna Mahanta Sudhakaran and **Gautam K. Borah.** 2024. Quantifiers and quantification in Tutsa. In Gautam K. Boarh (Ed.). *Select Papers from NCLL 2023*, pp. 143-149. ISBN 978-81-968280-5-9.

Books edited

- **Borah, G. K.** 2024. *Select Papers from NCLL 2023*. Guwahati: Bhabani Offset Pvt. Ltd. ISBN 978-81-968280-5-9.
- Saklani P.D., Mohan S., Brahma, A., and **Gope, A.** (Eds.) (2024). *Yimkhiung (Yimchunger) Primer*. ISBN: 978-81-971148-6-1, First Edition: July 2024. Published by CIIL, Mysuru, in collaboration with NCERT, New Delhi. https://ncert.nic.in/pdf/primer/Yimkhiung_Primer.pdf
- Saklani P.D., Mohan S., Brahma, A., and **Gope, A.** (Eds.) (2024). *Chokri Primer*. First Edition: 2024. Published by CIIL, Mysuru in collaboration with NCERT, New Delhi.
- Saklani P.D., Mohan S., Brahma, A., and **Gope, A.** (Eds.) (2024). *Maram Primer*. ISBN: 978-81- 971148-0-9, First Edition: 2024. Published by CIIL, Mysuru in collaboration with NCERT, New Delhi. https://ncert.nic.in/pdf/primer/Maram_Primer.pdf

Conference/Workshop/Symposium/Seminar etc. Attended by faculty members

Name of Faculty/Staff Member	Purpose of Attending (Paper presentation/ Participation/Session)	Title of Event	Date/Period (in the dd-mm-yyyy format)	Organizer and Venue (Online/Offline)

	Chairing/Chief Guest, etc)			
Gautam K. Borah	Paper presentation	16 th International Cognitive Linguistics Conference (ICLC-16)	7 – 11 August, 2023	Heinrich Heine University, Dusseldorf, Germany
Gautam K. Borah	Session chairing/participation	National Conference on Language and Linguistics (NCLL) 2024	12 March, 2024	Department of Linguistics & Language Technology, Tezpur University, Assam
Gautam K. Borah	Plenary speaker/session chairing	45 th International Conference of Linguistic Society of India (ICOLSI – 45)	20 – 22 November, 2023	Department of Linguistics, Aligarh Muslim University
Bipasha Patgiri	Paper presented: An Ethnolinguistic Account of the Culinary Lexicon of the Mishing Community: Change and Continuity	9 th Annual Conference of the Oral History Association of India (OHAI - 9): Mountain History: At the Intersection of Memory, Politics, and Identity, OHAI and NEHU, Shillong	13 – 15 March, 2024	NEHU, Shillong
Bipasha Patgiri	Participated	National Conference on Language and Linguistics (NCLL) 2024	12 March, 2024	Department of Linguistics & Language Technology, Tezpur University, Assam
Bipasha Patgiri	Paper presented jointly: Significance of Kinship relations in the Traditional Karbi Rituals	5 th International Conference of Tibeto-Burman	5 – 7 February, 2024	Department of Linguistics, EFLU, Shillong

		Linguistics Association of Northeast India TiBLANEI-5		
Bipasha Patgiri	An Ethnolinguistic Study on the Oral Traditions, Rituals, and Festivals of the <i>Nyishi</i> , <i>Galo</i> , and <i>Apatani</i> Communities of Arunachal Pradesh, ATHENA	3 rd Annual International Conference of School of Social Sciences & Humanities	5 – 7 December, 2023	Vellore Institute of Technology, Andhra Pradesh
Bipasha Patgiri	Paper presented jointly: Issues and Challenges of MTB-MLE for the <i>Adivasi</i> Community: A Survey in Assam's Sonitpur district	44 th International Conference of Linguistic Society of Nepal (LSN – 44)	26 – 27 November, 2023	Department of Linguistics, Trivuban University, Nepal
Bipasha Patgiri	Paper presented jointly: Type-Based Nominal Affixation in Deori language	45 th International Conference of Linguistic Society of India (ICOLSI – 45),	20 – 22 November, 2023	Department of Linguistics, Aligarh Muslim University
Bipasha Patgiri	Paper presented jointly: Clan System, Kinship System, and Ritualistic behaviour of the Karbi Community: An Ethnolinguistic Study	45 th International Conference of Linguistic Society of India (ICOLSI – 45)	20 – 22 November, 2023	Department of Linguistics, Aligarh Muslim University
Bipasha Patgiri	Ethics in linguistic Fieldwork: Case studies in <i>Singpho</i> and <i>Khampti</i> communities of Arunachal Pradesh	National Conference on Ethics in Human Sciences Research and Publication	21 – 23 September, 2023	Jawaharlal Nehru University, New Delhi
Gautam K. Borah	Presented paper jointly: The metaphorical use of the verbs in the non-nominative subject construction in Assamese	16 th International Cognitive Linguistics Conference (ICLC-16)	7 – 11 August, 2023	Dusseldorf, Germany

Bipasha Patgiri	A Generative Account of Foot Structure and Metrification	50 th All India Conference of Dravidian Linguists (AICDL - 50) & International Seminar on Current Trends in Linguistics	21- 23 June, 2023	Department of Linguistics, University of Kerala, Dravidian Linguistics Association of India, International School of Dravidian Linguistics, and CIIL, Mysore
Bipasha Patgiri	Digital Trading as a tool for Self-sustained Economic Growth	National Seminar on Technology: Reshaping Educational & Economic Goals	19 – 20 June, 2023	Lalit Chandra Bharali College and Assam Science Technology and Environment Council (ASTEC)
Bipasha Patgiri	Traditional Bulit Heritage of Apatani Houses, National Seminar on Reviving Traditional Practices in Light of Climate Change	Internal Quality Assurance Cell, Kaliabor College, Assam Science Technology and Environment Council (ASTEC), and Science and Technology and Climate Change Department, Government of Assam	12 – 13 June, 2023	Internal Quality Assurance Cell, Kaliabor College, Assam Science Technology and Environment Council (ASTEC), and Science and Technology and Climate Change Department, Government of Assam
Bipasha Patgiri	Paper presented jointly: Ecological Significance in the Oral Traditions of <i>Nyishi</i> , <i>Galo</i> and <i>Apatani</i> Communities of Arunachal Pradesh	National Seminar of heritage Elements of Northeast India organized by Directorate	18 – 19 May, 2023	Malaviya Mission Teacher Training Programme (MM-TTP) of the University Grants

		of Museums, Government of Assam and ICOM (International Council of Museums, India) on the occasion of International Museum Day		Commission (UGC) organized by MMTTC, Tezpur University
Amalesh Gope	Participated in the Short Term Course	NEP Orientation & Sensitization	1 – 10 November, 2023	Malaviya Mission Teacher Training Programme (MM-TTP) of the University Grants Commission (UGC) organized by MMTTC, Tezpur University
Amalesh Gope	Participated in the one week Faculty Development Program	Security Aspects in Computer Science and its Applications (SACSA-2023)	16 - 20 October, 2023	Department of Computer Science & Engineering, Motilal Nehru National Institute of Technology, Allahabad, Prayagraj, Uttar Pradesh, India
Amalesh Gope	Participated at Technology & Bharatiya Bhasha Summit	CIIL UGC AICTE, NETE. BBS, NCERT, NCVET & NCTE	30 September- 1 October, 2023	Dr. Ambedkar International Centre (DAIC), Jan-path, New Delhi
Amalesh Gope	Presented paper on: The Phonetics of Downtrends in Chokri and The Phonetics of Prosodic Marking of Focus in Sylheti	20th International Congress Of Phonetics Sciences, IChPS-2023, CZech	7 – 11 August, 2023	20th International Congress Of Phonetics Sciences, IChPS-2023, CZech

		Republic, Prague		Republic, Prague
Reetom Borkotoky	Presented paper on:	16 th International Cognitive Linguistics Conference (ICLC-16)	7 – 11 August, 2023	Dusseldorf, Germany
Sushanta Rajkhowa	Presented paper on: The Syntax-Semantics Interface in Select Indian Languages	National Conference on Language and Linguistics (NCLL) 2024	12 March, 2024	Department of Linguistics & Language Technology, Tezpur University, Assam

Conference/Workshop/Symposium/Seminar etc. attended by research scholars

Name of Faculty/Staff Member	Purpose of Attending (Paper presentation/ Participation/Session Chairing/Chief Guest, etc)	Title of Event	Date/Period (in the dd-mm-yyyy format)	Organizer and Venue (Online/Offline)
Bisalakshi Sawarni	Presented paper jointly : The metaphorical use of the verbs in the non-nominative subject construction in Assamese	16 th International Cognitive Linguistics Conference (ICLC-16)	7 – 11 August, 2023	Dusseldorf, Germany
Harshita Talukdar	Attended	Three -Day training workshop on Forensic Linguistics: Language and Crime	8 – 10 January, 2024	Bharathiar University, Coimbatore
Harshita Talukdar	Presented paper on: Identification of Linguistic Coercion Used in English Fraudulent Text Messages: A Forensic Linguistic Study	Building Bridges within Language and Law, during 6th International Legal Linguistics Workshop (ILLWS23)	9 December, 2023.	Institute of Linguistics, University of Graz, Austria and co-hosted by the Austrian Association for Legal Linguistics
Harshita Talukdar	Presented paper on: Analysing Text Manipulation Techniques in English Fraudulent Text Messages: A	45th International Conference of the Linguistic Society of India (ICOLSI-45)	20 – 22 November, 2023	Department of Linguistics, Aligarh Muslim University, Aligarh

	Forensic Linguistic Study			
Harshita Talukdar	Participated	Two-day International Workshop on Criminal Profiling	29 - 30 July, 2023	International Institute of Justice and Police Science, Bengaluru in collaboration with the South Asian Society of Criminology and Victimology
Monjushna Sudhakaran	Presented paper on: Individuative and Generic Reference in Tutsa	45th International Conference of the Linguistic Society of India (ICOLSI-45)	21 November, 2023	AMU, Aligarh
Parag Kumar Deka	Presented paper on: Agreement system of Zyphe	45th International Conference of the Linguistic Society of India (ICOLSI-45)	20 – 22 November, 2023	Aligarh Muslim University, Aligarh
Priyam Talukdar	Presented paper on: Motion in Bodo	4 th International Conference of the Tibeto-Burman Linguistics Association of North East India (ICTiBLANEI-4)	7 – 9 February, 2024	EFLU, Shillong, India
Priyam Talukdar	Presented paper on: Comparing Politeness in Bodo and Assamese: A Cognitive Study	45th International Conference of the Linguistic Society of India (ICOLSI-45),	20 – 22 November, 2023	Aligarh Muslim University, Aligarh
Reshma Nasreen Shah Choudhury	Presented paper on: Ideology, Author and Representation of Social Actor in a TV discussion in Assamese	45th International Conference of the Linguistic Society of India (ICOLSI45)	20 – 22 November, 2023	Aligarh Muslim University, Aligarh
Tulika Gogoi	Presented paper on: The Phonetics of Downtrends in Chokri	20 th International Congress of Phonetic Sciences (ICPH-20)	7 – 11 August, 2023	Prague Congress Centre, Czech Republic
Tulika Gogoi	Presented paper on:	20 th International Congress of Phon	7 – 11 August, 2023	Prague Congress

	The Phonetics of Prosodic marking of Focus in Sylheti	etic Sciences (ICPH-20)		Centre, Czech Republic
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Invited Talk by faculty members

Name of Faculty Member	Title of the Talk	Title of the Event	Date (in the dd-mm-yyyy format)	Organizer and Venue
Gautam K. Borah	Plenary talk: Classifiers are not a redundant category	45 International Conference of the Linguistic Society of India	20 – 22 November, 2023	Aligarh Muslim University, Aligarh
Gautam K. Borah	Delivered a talk on language and literature	UGC Faculty Development Program	15 December, 2023	Organized for college and university teachers of Assamese Academic Staff College, Gauhati University, Guwahati
Gautam K. Borah	Plato, Locke and Chomsky on Language	Invited talk	18 Januray, 2024	Dept of English, BSSR University, Golaghat, Assam
Gautam K. Borah	The Metaphorical Nature of Language	Invited talk	18 January, 20234	Dept of English, BSSR University, Golaghat, Assam
Gautam K. Borah	From Words to Phrase: Meaning and Grammar.	UGC Faculty Development Program	5 February, 2024	Department of Linguistics, Osmania University, Hyderabad
Gautam K. Borah	How Noun Phrases Help Us to Talk about the Word	UGC Faculty Development Program	26 June 2024	Amity University, Kolkata
Arup Kumar Nath	Multilingual Education and Language Policy in the light of NEP 2020	Online Faculty Induction Programme	06 March, 2024	Malaviya Mission Teacher Training Centre (MMTTC), Tezpur University
Arup Kumar Nath	Lexicography, Lexicology, and Online Dictionary	Online Refresher Course on “Literature,	27 December, 2023	Malaviya Mission Teacher Training Centre (MMTTC),

		Language, and Culture in the Digital Age		Tezpur University
Arup Kumar Nath	Bhaxar Katha, Axar Kotha: Xomosya aru Pratyahban	Golden Jubilee Celebration Session of Sipajhar College, Darrang, Assam	17 November, 2023	Sipajhar College, Darrang, Assam
Arup Kumar Nath	Multilingualism as a Resource and MLE-based Education in Assam: A Translanguaging Pedagogy	Faculty Development Program themed “Languages, Cultures and Knowledge System of Assam” organized by Lalit Chandra Bharali College, Guwahati in Collaboration with CIIL, Mysuru	13 October, 2023	Lalit Chandra Bharali College, Guwahati
Arup Kumar Nath	Language Endangerment, Linguistic Human Rights and the Northeast India	Indigenous peoples’ Day’ organized by the Department of English Studies, Central University of Tamilnadu	09 August, 2023	Central University of Tamilnadu
Bipasha Patgiri	Technical Terminology in Higher Education Textbooks	Workshop on Role of Technical Terminology in Higher Education, Commission for Scientific and Technical Terminology	14 – 15 March, 2024	Ministry of Education, GoI, and Department of Hindi, Tezpur University
Bipasha Patgiri	Phonological Data Analysis using Optimality Theory	National Conference on Language and Linguistics (NCLL 2024),	12 March, 2024	Department of Linguistics and Language Technology, Tezpur University
Bipasha Patgiri	Significance of Ancient Texts in Linguistic Research	National Workshop on NEP-2020: Model Curriculum and Content in Linguistics through Bharatiya Languages	30 – 31 January, 2024	Vidya Bharati Uchcha Shiksha Sansthan, and Gauhati University, Assam

Bipasha Patgiri	Assamese Language	Review Committee meeting of CSTT's 14 Principles for the preparation of Scientific and Technical Terminology for Scheduled Indian Languages	8 – 10 January, 2024	Odisha State Bureau of Textbook Preparation and Production, Bhubaneswar
Bipasha Patgiri	Morphological Analysis of Technical Terms used in Linguistics Textbooks in Assamese	Two-day National Seminar on Technical Terminology in Assamese Language and Culture, Commission for Scientific and Technical Terminology (CSTT)	22 – 23 September 2023	Department of Higher Education, Government of India
Bipasha Patgiri	English in India: Synchronic and Diachronic Perspectives	English Language Forum	26 August 2023	Loei Rajabhat University, Thailand
Bipasha Patgiri	Phonotactics and Loanword Adaptation'	SEL for SEL by Society for Endangered Languages	30 June 2023	?????
Amalesh Gope	Understanding Tone	Online Course in Language & Linguistics	23 – January to 6 February, 2024	UGC- Malaviya Mission Teacher Training Centre (Formerly known as UGC- Human Resource Development Centre), Osmania University, Hyderabad
Amalesh Gope	Acoustic Analysis of Tone with Reference to a few Naga group of Languages: (Chokri, Maram, and Yimchunger)	Orientation programme on Research in Linguistics	21-29 August, 2023	School of Language Sciences, Hyderabad

Amallesh Gope	Delivered a series of lectures and conducted hands-on sessions	Summer school in Computational Linguistics 2023	19 June 3 July, 2023	linguistic Data Consortium for Indian Languages, CIIL, Mysuru
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Talk by research scholars

Name of Faculty Member	Title of the Talk	Title of the Event	Date (in the dd-mm-yyyy format)	Organizer and Venue
Harshita Talukdar	Fraudulent Texts and Forensic Cyber Linguistics	Abendgymnasium Wien, a school for adult secondary students, in Vienna, AustriaFebruary, 2024	Online talk Abendgymnasium Wien, Vienna, Austria
Priyam Talukdar	Motion Events in Bodo	Society for Endangered and Lesser Known Languages (SEL),	28 June, 2024	?????

Other Significant Activities of the Department: /Centre (e.g., outreach/extension activities, events organized, etc.)

- A 1-day *National Conference on Language and Linguistics- 2024* was organized and held in the Department of Linguistics and Language Technology on 12 March 2024 to mark the successful completion of two years of the newly established Department. The conference was attended by participants across the country and a total of....papers were presented. Prof. C. Yashawanta Singh, Professor of Linguistics & Dean of Arts (retd.) Manipur University was the keynote speaker of the event.

Number of Students Qualified in NET-JRF/SLET/GATE etc.

Name of Qualifying Examination	Number of Qualified Students	Academic Programme
NET	Reetom Borkotoky	MA in LLT
NET	Harshita Talukdar	MA in LLT
NET	Gyandeep	MA in LLT
NET	Marwa	MA in LLT
NET	Sarbinong Kathar Engti	MA in LLT
GATE	Bibek Nayan Deka	MA in LLT
GATE	Akangsha Debnath	MA in LLT
GATE	Joynal Ali	MA in LLT
GATE	Sarbinong Kathar Engti	MA in LLT
GATE	Marwa	MA in LLT

Notable Placement of Students

Name	Academic Programme	Placement Designation	Company/ Organization	Type of Selection (On-Campus/ Off-Campus)
Sweety Bayan	MA in LLT	Public Relations and Communications Manager	AUTODESK PVT. LTD,	Off-Campus
Bitupon Gogoi	MA in LLT	Resource Person	CIIL, Mysore	Off-Campus
Anjali Stephen	MA in LLT	Resource Person	CIIL, Mysore	Off-Campus
Sibashree Deka	MA in LLT	Marketing Executive	Parcon India Private Limited	Off-Campus

Enrollment of Students in other Institutes for Higher Studies

Name of Student	Academic Programme (in TU)	Name of other Institute	Enrolled Academic Programme
Joyanal Ali	MA in LLT	IIT, Delhi	Ph. D
Gyandeep Chetia	MA in LLT	IIT, Delhi	Ph. D
Marwa	MA in LLT	IIT, Dhanbad	Ph. D
Muskan Sharma	MA in LLT	Tezpur University	Ph. D
Riya Chutia	MA in LLT	Tezpur University	Ph. D
Upasana Devi	MA in LLT	Assam University, Silchar	Ph. D

Others:

Dr. Amalesh Gope:

- Academic Module was created for Designing New Curriculum and Course on **English Language Teaching** at Maulana Azad National Urdu University, Hyderabad, for the PG students of English. (Published on November 6, 2023) <https://tinyurl.com/3mhbyppm>.

Awards/Assistance:**Reetom Borkoptoky**

Received travel grant from ICSSR to participate and present a paper at 16th International Cognitive Linguistics Conference (ICLC-16) held at Dusseldorf, Germany during 7 – 11 August, 2023.

Harshita Talukdar

Received travel grant from ICSSR to participate and present a paper at 5th European Conference of the International Association for Forensic and Legal Linguistics held at Auston University, Birmingham B4 7ET, United Kingdom, during 24 – 27 June, 2024.

DEPARTMENT OF ENGLISH

About the Department

The Department of English, earlier named Department of English and Foreign Languages, was established on July 16, 1994, with a Diploma programme in English Language Teaching. The current two-year M.A. programme in English began in January 1997. The academic programmes offered by the Department of English are: Integrated M.A. in English, M.A. in English, and Ph.D. The Department of Foreign Languages and the Department of Linguistics, which were a part of the Department of English, became separate departments in 2019 and 2022 respectively.

The Department received assistance from the UGC under its Department Research Support-Special

Assistance Programme (DRS-SAP-Phase II, 2015-2020). The thrust areas are (1) Understanding Colonial and Alternative Modernities in Travel and Life Writings in Assam and (2) Examining Asian and Indian Influences on Modern Assamese. The Department aims to become a leading research hub in Language and Literary Studies in South Asia and to emerge as a centre for Modernity Studies and Translation Studies in South Asia. The Department further aims to enable students to critically engage beyond conventional disciplinary borders and develop a sense of social responsibility and professional commitment in students.

Academic Programmes and Student Intake

Academic Programme	Intake
MA in English	63
Integrated M.A in English	25
PhD in English	variable

Thrust Research Areas of the Department

Understanding Colonial and Alternative Modernities in Travel and Life Writings in Assam.

Examining Asian and Indian Influences on Modern Assamese.

Faculty Members

Designation	Name	Highest Qualification (Institute)	Specialization	<email> @tezu.ernet.in	Date of holding the current position
	Bijay Kumar Danta	Ph.D. (Utkal University)	American Literature, Critical Theory	bkdanta	28-03-2006
	Farheena Danta	Ph.D. (Dibrugarh University)	American Literature; Modernist Poetics	fdefl	11-06-2009
	Prasanta Kumar Das	Ph.D. (Gauhati University)	Indian Writing in English, Book History, Missionary writings, Non-Fictional Prose	prsnt	30-07-2001
	Sravani Biswas	Ph.D. (NEHU)	Indian Writing in English, Postcolonial Studies with special interest in Partition Literature, Migration and Diaspora studies.	sravani	09-09-2011
	Debasish Mohapatra	Ph.D. (EFL University, Hyderabad)	Curriculum Development, Materials Production, Language Policy	deva	30-09-1997
	Sanjib Sahoo	Ph.D. (Tezpur University)	Life Writing, Indian Writing in English, Popular Culture, Travel Writing	ssahoo1	27-09-2011

	Hemjyoti Medhi	Ph.D. (Delhi University)	Gender and Literature, Vernacular Public Spheres, Oral History, Digital Humanities	hgyoti	15-06-2001
	Sarat Doley	Ph.D. (EFLU, Shc)	ELT	dolesar	03-04-2017
	Reetamoni Narzary	Ph.D. (Tezpur University)	Representation in Literature, Gender and Literature, New Literatures in English, Postcolonial Literature	reita	31-07-2006
	Pallavi Jha	Ph.D. (University of Hyderabad)	Indian writing in English, Popular Culture/ Literature, New Literatures in English.	pjefl	12-09-2011
	Bashabi Gogoi	Ph.D. (Gauhati University)	Indian Writing in English, Film Studies and Adaptation theories.	b_gogoi	26-08-2011
	Esther Daimary	Ph.D. (Gauhati University)	Contemporary South Asian English Literature, British Literature from North East India, Partition Literature.	esther	01-10-2012

	Raktima Bhuyan	Ph.D. (Tezpur University)	Modernity studies, visual studies, gender and medicine.	rbeng	01-12-2021
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Staff Members (Note: Designation and Seniority-wise)

Designation	Name	<email>@tezu.ernet.in	Date of holding the current position
Technical Assistant	Hemen Das	hemen	02-08-2012
Assistant	Jayanta Kr. Gogoi	jayanta	24-06-2019
MTS	Pranab Kr. Borah	pkborah	01-03-1997

Publications by Faculty (Journals)

1. Medhi, Hemjyoti. “ ‘In Search of Our Mothers’ Gardens’: Weaving Matrilineal Yarns in Easterine Kire’s A Terrible Matriarchy and Tilottoma Misra’s Ka Meikhar Ghar/High Wind ” Vol. 44, Issue 3-4, Pages 278-290. ISSN 0275-9527 Published online: 27 Jul 2023 <https://doi.org/10.1080/02759527.2023.2240989> (SCOPUS)
<https://www.tandfonline.com/doi/full/10.1080/02759527.2023.2240989?src=>
2. Doley Sarat, “Effects of Task Scheduling on L2 Attitude and Motivation: A Stimulus Appraisal-based Longitudinal Study on ESL Learners” The Journal of Asia TEFL, Vol. 20, No. 4, Winter, 2023. Scopus (Q1), <https://dx.doi.org/10.18823/asiatefl.2023.20.4.2.773>
3. Doley Sarat, “Correlations between Motivation and Language Proficiency: A Stimulus-Appraisal based Study on Indian Undergraduate ESL Learners”, MEXTESOL, Vol. 48, No. 1, January 2024, Scopus (Q2) faae4483281f56fa67548cc3453c2251
4. Doley Sarat, “Vocabulary and Grammar Retention: Blocking versus Interleaving”, Taiwan Journal of TESOL (Q1), Vol. 21, No. 1 Spring, 2024 [https://doi.org/10.30397/TJTESOL.202404_21\(1\).0004](https://doi.org/10.30397/TJTESOL.202404_21(1).0004)
5. Doley Sarat, “Blocking and Interleaving Effects on English Speaking Proficiency of Adult ESL Learners”, The Journal of Asia TEFL, Vol. 21, No. 2, Summer, 2024. Scopus (Q1) <http://dx.doi.org/10.18823/asiatefl.2024.21.2.3.307>
6. Gogoi Bashabi ‘The Lambs are Silent’: Interpreting Trauma in the Novel and Film Adaptation of The Silence of the Lambs”. 23rd MELOW International Conference 2023 on ‘Borders, Boundaries, Lines of Control: Literature across Disciplines in Contemporary Times’ organized by MELOW. October 6-8, 2023.

7. Gogoi Bashabi “Dalit Identity and the Politics of Patriarchy: A Study of Article 15”. 4th AFSSA Online Conference 2024 on ‘Contemporary South Asian Cinemas’ organized by Association for Film Studies in South Asia (AFSSA). February 2-4, 2024.

Publication of Books

1. Medhi, Hemjyoti. *Gendered Publics: Chandraprava Saikiani and the Mahila Samitis in Colonial Assam* (Oxford University Press, 2024).
2. Doley Sarat “Gods Edify Through Names: Divinity as Schema in English as L2 Teaching” in *Evolving Narratives: Language, Literature, and Culture in Northeast India*, Himalayan Publishers, February 2024
3. Bhuyan, Raktima and Sanjib Pol Deka. *Print Modernity in Colonial Assam*. Lexington Books, 2023

Publication of Book Chapters

1. Daimari, Esther. 2024. “Teaching Nepali Anglophone Diasporic Literature,” In Nalini Iyer and Pallavi Rastogi (Eds) *Teaching South Asian Anglophone Diasporic Literature*. Modern Language Association (Options for Teaching), pp. 152-163.

Conference/Workshop/Symposium/Seminar etc. Attended

Name of Faculty/Staff Member	Purpose of Attending (Paper presentation/ Participation/Session Chairing/Chief Guest, etc)	Title of Event	Date/Period	Organizer and Venue (Online/Offline)
Raktima Bhuyan	Paper presentation	“Women’s Health in Print: Medicine and Indigenous Knowledge in Colonial Assam” at an International Symposium on Medical Humanities	07-05-2024	The British University in Egypt and Minnesota Medical School (online)

Other Significant Activities of the Department:

1. Hemjyoti Medhi coordinated invited talk by Dr Kaushik Bakshi Jadavpur University on 25 April 2023

2. Raktima Bhuyan co-ordinated a seminar “Decolonizing Culture and Language in Colonial India: Reading Between the Lines” comprising of two sessions, offered by Satya P. Mohanty (Professor in the Department of Literatures in English, Cornell University) on 27th February and 3rd April, 2024.
3. Raktima Bhuyan co-ordinated a talk by Arka Chattopadhyay (Assistant Professor in the Department of Humanities and Social Sciences at IIT Gandhinagar) titled “Franz Kafka: Law, Embodiment, Alterity”) marking the death centenary year of Franz Kafka and as part of the commemoration of 30 years of the Department of English, Tezpur University on 4th March, 2024.
4. Raktima Bhuyan co-ordinated a special lecture by Nilanjana Mukherjee (Professor of English, Delhi University) titled “Why Literature? Whither Space? Mapping Literary Cultures” as part of the 30 year commemoration of the Department of English, Tezpur University, organized on 4th March, 2024.

Number of Students Qualified in NET-JRF/SLET/GATE etc.

Name of Qualifying Examination	Number of Qualified Students	Academic Programme
NET JRF (December 2023)	1 (Anibrata Paul)	MA in English
NET (December 2023)	1 (Dikshita Haloi)	MA in English

DEPARTMENT OF SOCIAL WORK

About the Department

The Department of Social Work, Tezpur University was established in 2014 to respond to the dearth of good Social Work schools and trained social work professionals in the North East Region (NER) of India. The Department follows a rigorous theoretical and field-based pedagogy with special focus on the issues of the NER. The Department offers Masters and Ph.D. programme in Social Work.

Academic Programmes and Student Intake

Academic Programme	Intake
M.A. Social Work	22
Ph.D.	Variable (admitted 02 in 2024-25)

Thrust Research Areas of the Department

- Social Entrepreneurship and Livelihood promotion
- Gender and Social Work
- Public health and Mental Health
- Environment, Ecology and Social Work

Faculty Members

Designation	Name	Highest Qualification (Institute)	Specialization	email	Date of holding the current position
	Apurba Saha	Ph.D. (NIMHANS)	Mental Health and Social Work	apurbasaha	04-07-2014
	Rajesh Kalarivayil	Ph.D. (JNU)	Science, Technology and Innovation Studies	rajeshk	27-10-2014
	Namami Sharma	Ph.D. (Delhi University)	Environment and Social Work, Community	namamish	09-01-2017

			Organisation		
	Prerana Banik	M.Phil (TISS, Mumbai)	Gender and Livelihood	banikpb	02-02- 2017
	Samhita Barooah	Ph.D. (TISS, Guwahati)	Ecology, Social Work Practice, Gender, Social Entrepreneurs hip	samhitab	15-11- 2021

Officers and Staff Members

Designation	Name	Date of holding the current position
<i>Assistant</i>	Dipak Chetry	02-08-2023
<i>MTS</i>	Gunadhar Bora	29-07-2015

Research Projects (both Ongoing and New)

Project Title	Funding Agency	Amount (in INR)	Duration	Investigator(s)
Biodegradable Sanitary Pad Production as a Sustainable Livelihood Enterprise in Assam, India	The Institute of Electrical and Electronics Engineers, Incorporated ("IEEE")	166860	1 st April 2024 to 31 st March 2025	Dr.Rajesh Kalarivayil (PI) Dr. N. Vigneshwaran, ICAR-CIRCOT Dr.Kankana Narayan Dev, Department of Design, TU

An impact assessment of the PM SVANidhi Scheme implemented under the Assam State Urban Livelihood Mission (ASULM) of the State Government of Assam in three districts viz., Morigaon, Nagaon and Sonitpur	Assam State Livelihood Mission Society, Government of Assam	2,69,040	3 Months July 2023-September 2023.	Prof. Chandan Kr. Sharma. (PI) Dr. Apurba Saha Mrs. Prerana Banik Dr. Samhita Barooah (Co-Researchers)
Capacity Building to Challenge Gender Based Discrimination in Selected tea Gardens of Assam	Inkota Germany	18,30,400	3 Months April 2024-July 2024.	Dr. Hemjyoti Medhi, (PI) Dr. Moushumi Kandali, (Co-PI) Dr. Samhita Barooah (Co-PI)
" Training Development and Implementation on (New) Labour Codes in Tea Estates in Assam"	INKOTA-netzwerk e.V., Chrysanthemenstraße 1-3, 10407 Berlin,"	16,81,000	3 Months April 2024-Jun 2024.	Dr. Apurba Saha (PI)

Publications by Faculty and Staff Members

Publication of Articles in UGC-CARE Listed Group I/Group II Journals

Kalarivayil, R., Chattaraj, B. & Nair, S.S. (2024). Precarity of Place in the Global South: The Case of Tea Garden Workers in Assam. *Social Inclusion*, 12: 1-15

Kalarivayil R. (2023) Dubai Letter Songs: Emotions and Migration in Kerala, India (1970s-1990s). *Contributions to Indian Sociology*, 57(1-2): 98-121

Marbaniang, M.A., Saha, A. Exploring Coping Strategies of Mothers Navigating Stress in Raising Children with Autism: A Review. *J. Psychosoc. Rehabil. Ment. Health* (2024). <https://doi.org/10.1007/s40737-024-00423-1>

Marbaniang. M. A., Deuri S. P., Sobhna .H. & Saha A. (2023). Stress and psychological well-being of single mothers- a comparative study. *Journal of Minerva Psychiatry* 2023 December;64(4):486-93 (DOI: [10.23736/S2724-6612.22.02346-6](https://doi.org/10.23736/S2724-6612.22.02346-6))

Bora D., Deuri S. P. & Saha A. (2023). Depression among Married Women in Assam: A Qualitative Study: *Indian Journal of Social Psychiatry* 39(1): p 77-83, Mar 2023. | DOI: 10.4103/ijsp.ijsp_312_20

Saha A & Kerketta E. (2023). Sustainable Development Goals and Small Tea Growers of North-east Assam. *Economic & Political Weekly*, March 2023, vol. LVIII no 5: 24-27.

Publication of Articles in Other Forms

Marak S, Neitsopeu Thopi, Dr. Anjuman Ara Begum, Dr. Samhita Barooah (2024). Queerness of Singlehood in Folk Cultures of North East India. Ed. Padmapati Kaustav and Pratiti Barman, *Queer Voices from Periphery: A Collection of Perspectives from North East India*. Quratebooks, 25-40.

Conference/Workshop/Symposium/Seminar etc. Attended

Name of Faculty/ Staff Member	Purpose of Attending	Title of Event	Date/ Period	Organizer and Venue
Dr. Samhita Barooah	Paper Presentation on Queer Affirmative Social Work Practice	Leave No One Behind: Revisiting Pedagogy and Practice of Social Work in India, XI Indian Social Work Congress	3-5 November 2023	NAPSWI at Maulana Azad National University, Hyderabad.
Dr. Samhita Barooah	Resource Person on Queer Ecology of Commons in Northeast India,	International Conference on Sustainability, Global Diversity, Inclusion and Culture:	18-19 January 2024	Department of Education, Calcutta University, at National Library of

	Moderation and Chairing sessions.	Interdisciplinary Perspectives.		India, Ministry of Culture, Government of India.
Dr. Samhita Barooah	Chairing a session in the 13 th Annual International CESI Conference, 2023 Co-Curating the Parallel Exhibition during the conference.	“Changing Dynamics of Education: Perspectives and New Directions from Global South”	December 1-3, 2023	Comparative Education Society of India and Tezpur University.
Ms. Garnia Gohain, Ms. Shardha Dutta and Dr Samhita Barooah,	Presented a joint paper on Migrant Youth Aspirations in Contemporary South Asia.	Seminar cum workshop on ‘Changing Generations in India: Developing Collaborative Indigenous Research Methods to Understand Young Lives in India.’	February 16-18, 2024	Department of Sociology, Tezpur University and Queen’s University Belfast

Invited Talk

Name of Faculty Member	Title of the Talk	Title of the Event	Date	Organizer and Venue
	‘Gender Equality and Challenges faced by	Panel Discussion on ‘Rights of the LGBTIQ+ community and	April 21, 2023	Department of Law, Royal Global University

	LGBTIQ+ community'	Access to Justice'		
	On Nobel Laureate Nargis Mohammadi	Invited Talks on Nobel Laureates	November 2023	Tezpur University, KBR Hall.
	Fostering Change Through Inclusivity	Buen Vivir- Shared Future for Transformative Change World Social Work Day	March 17, 2024	Department of Psychiatric Social Work, LGBRIMH, Tezpur
	Understanding Queer Lives	Guest Lecture	September, 2023	Department of English, Venue: Department of English Classroom, Tezpur University
	Social Work Practice and Queer Issues in North East India	2 nd Popular Lecture	May 8, 2024	Department of Philosophy, Gauhati University Venue: Phanidhar Datta Seminar Hall, Gauhati University.

	<p>Community Experiences with Media: How Does the Community want to be written/talked about?</p> <p>Beyond Pride Coverage: Media creating inclusive spaces.</p>	The Northeast Media Conclave on LGBTQ+ Lives	March 22, 2024	<p>The Humsafar Trust, Alliance India and NETREACH.</p> <p>Venue: Hotel Lily, Guwahati.</p>
	THEORISING PERSONALITY OF HUMAN BEING	Guest Lecture	01.09. 2023	Department of Social Work, Assam University
	NEW LABOUR CODE AND ITS IMPLICATION IN INDIA	Guest Lecture	02.09. 2023	Department of Social Work, Assam University
	SCOPE OF SOCIAL WORK IN MENTAL HEALTH	Guest Lecture	04.09. 2023	Department of Social Work, Assam University

Number of Students Qualified in NET-JRF/SLET/GATE etc.

Name of Qualifying Examination	Number of Qualified Students	Academic Programme
NET	1	M.A. Social Work

Notable Placement of Students

Name of Student	Academic Programme	Placement Designation	Company/ Organization	Mode of Selection
Krity Gurung	M.A. Social Work	Development Apprenticeship	PRADAN	Campus Interview
Antaripa Saikia	M.A. Social Work	Executive Trainee	Sesta	Campus Interview
Ananya Dutta	M.A. Social Work	Executive Trainee	Sesta	Campus Interview
Mohit Kumar	M.A. Social Work	Fund Raiser and Volunteer Manager	Govardhan Eco Village Project	Self Initiative
Alisha Islam Borah	M.A. Social Work	Associate Resource Person	Azim Premji Foundation	Self Initiative
Sachin	M.A.Social Work	Associate Fund Raising and External Engagement	Parivar	Self Initiative
Isha Paul	M.A. Social Work	Coordinator	Specialized Adoption Agency, Odalguri	Self Initiative
Nishita Kalita	M.A. Social Work	Content Development and Business Development	Fanzart, Bangalore	Self Initiative
Techanshim Kansowa	M.A. Social Work	Volunteer	All Tribal Women Organisation, Manipur.	Self Initiative

DEPARTMENT OF SOCIOLOGY

About the Department

The Department of Sociology at Tezpur University was established in 2006 with a Master's programme. Subsequently, it launched a Ph.D. programme in 2008 and from 2025, it is going to introduce Four Year Undergraduate Programme (FYUP). The department is dedicated to create competent and socially sensitive graduates through rigorous teaching/training programmes and extension activities. The curriculum emphasizes the teaching and learning of general concerns of sociology as well as the issues of sociological significance in northeastern India, which are a special focus of the teaching and research of the department. A combination of participatory, experiential, and creative pedagogy is used for transacting the curricula to foster dialogue, mutual learning, and critical reflection. The pedagogical practices also utilize an interdisciplinary framework combining classical approaches in conjunction with emerging areas of research. The students pursuing their Masters in the department not only have to learn critical approaches and perspectives in the classroom but are also encouraged to participate in short field visits during vacations as part of their mandatory research projects. The department also takes care to expose the students to the prevailing social realities through activities such as outreach programs, regular film screenings, seminars, and other programmes in collaboration with other social organizations. The faculty members of the department have a wide range of interests and expertise and are currently engaged in research areas such as Development, Education, Environment, Ethnic Conflicts, Governance, Health, Migration, Social Movements, Science Studies and so on.

Academic Programmes and Student Intake

Academic Programme	Student Intake
MA in Sociology	38
Ph.D. in Sociology	8

Thrust Research Areas of the Department

- Sociology of Northeast India
- Migration
- Identity Politics
- Public Health
- Sociology of Education
- Land Relations
- Sociology of Development
- Gender Studies
- Environmental Sociology

Major Facilities/Equipment available

- Smart Class Room
- Air-Conditioned Research Scholar's Room

- Book Club cum Reading Room

Faculty Members:

Designation	Name	Highest Qualification (Institute)	Specialization	<email> @tezu.ernet.in	Date of holding the current position
	Chandan Kumar Sharma	Ph.D. (University of Delhi)	Development, Environment, Identity Politics, etc.	Chandan	11-08-2010
	RabinDeka	Ph.D. (Dibrugarh University)	Social Movements, Social Exclusion, Agrarian Studies	Rdeka	01-12-2015
	KedilezoKikhi (Onlien)	Ph.D. (NEHU)	Sociology of Development, Sociology of Northeast India, Tribal Studies	Kedi	02-11-2015
	Amiya Kumar Das	Ph.D. (TU)	Sociology of Governance, Sociology of Health and Illness Research Methodology	Amiyadas	18-11-2019
	Sumesh,S. S.	Ph.D. (University of Kerala)	Body, Gender and Sexuality, Masculinity studies, Identity and Exclusion	Sumesh	01-12-2009 (Stage-II)
	Nirmali Goswami	Ph.D. (IIT Kanpur)	Identity Politics and Education, Gender Politics, Language Ideologies	Nirmalig	14-12-2009 (Stage-III)
	Sarmistha Das	Ph.D. (TU)	Agrarian Studies, Kinship Studies, Land and Livelihood	Sarmistha	19-08-2010 (Stage - III)
	SubhadeeptaRay	Ph.D. (University of Delhi)	Sociology of Science, Sociology of Anthropocene, Sociology of Knowledge	Sray	24-02-2014 (Stage-II)
	A.S. Shimreiwung	Ph.D. (JNU)	Sociology of Mass Media, Sociology of Religion,	Shim	04-07-2014

			Northeast India Studies		
	Pamidi Hagjer	Ph.D. (Gauhati University)	Ritual Studies, Kinship Studies, Industrial Sociology	Pamidi	06-04-2017 (Stage-II)
Guest Faculty	Minakshi Sarmah	M.A. (Griffith University, Australia)	International Relations (Research)	Msarmah	2017

Officers and Staff Members:

Designation	Name	<email>@tezu.ernet.in	Date of holding the current position
Upper Division Clerk	Amarjyoti Bharali	amar	2009
MTS	Dipak Upadhaya		2024

Publications by Faculty and Staff Members

Publication of Articles in UGC-CARE Listed Group I / Group II Journals

- Choudhury, Ahana & Das, A. K (2023) Care as work: *ayahs* and eldercare practices in India, *International Journal for Care and Caring*, Vol 7(4).
- Das, A.K., Ray S. & Choudhury, A.(2024) Conflict and communication in everyday life: An exploration of intercommunity conflict in Assam, India, *Conflict Resolution Quarterly*, Wiley.
- Ness, I., Das, A.K, Kumar, M. (2024) Footloose Culture: Migrant Workers and Cultural Meanings of Labour, *Society and Culture in South Asia*, 10(2), 161-176.
- Naddukhadiyil, H & S. S. Sumesh (2024) Geographies of otherness: films and interstate migrants of Kerala, *Asian Ethnicity*, Vol 25(3).
- Goswami, Nirmali& Bhuyan, Navarupa (2024) Doing style for Saraswati Puja: Girlhood, Class, and Community Identity among Muslim girls in Assam, *Ethnicities*, January. <https://journals.sagepub.com/doi/10.1177/14687968241229749>.
- Gogoi, N. & S.S. Sumesh (2023) We Are Just Mazdoors! A Decolonial Ethnographic Account of Health Inequalities, and Inequities among Tea Garden Laborers in Assam, India, New Solutions: *A Journal of Environmental and Occupational Health Policy*. Vol 32(4).
- Das, S, Hazarika, B.O,& Pathak, S. (2023).Everyday sexism in higher education: narratives of women in Indian academia, in *Journal of Gender Studies*, Vol 32(6):588-599.
- Dowerah, S. S, Das, S. & Deka, R. (2023) Making and un-making of Homes: A Study of Former women Prisoner's Ideas and Experiences of Home, *Indian Journal of Police Studies*, 70 (1&2):101-108.

- Medhi, D & Goswami, N. (2023). Language ideologies and multilingual education: teaching english and hindi in assamese. *Explorations*. 7 (3)

Publication of Books

- Kedilezo Kikhi, A.K. Das & Dutta Piyashi (eds.) (2023). Indigeneity, Citizenship and the State: Perspectives from India's Northeast, Routledge India.

Publication of Book Chapters

- Das, A.K. (2023) Corporatization of the State in the Neoliberal Era in *Grassroots democracy and governance in India: Understanding power, sociality and trust*, Springer pp.135-154.
- Goswami, Nirmali (2023) Assamese and Its 'Others': Making of a School Language in a Multilingual Society in *Indigeneity, Citizenship and the State*, Routledge, pp. 187-206.
- Das, S & Hazarika, B. O (2023) The social, political, and institutional context of sustainability: a study of Indian agriculture in *Sustainable Agriculture and the Environment*, Elsevier, pp. 439-453.
- Sharma, C. K. (2024) "Tribal Movements in Colonial and Post-colonial India", in *Exploring Social Movements: Theories, Experiences, and Trends*. Ed. Biswajit Ghosh, pp.148-172, Routledge. London/New York/New Delhi. (With Bhaswati Borgohain).

Publication of Articles in Other Forms

- Sharma, C. K. 'Ab Bhiaman ki Raahdekhta Manipur', February 29, 2024, *Hindustan*
- Sharma, C. K. 'Ulfa-Sarkar Shanti Samjhota', January 4, 2024, *Amar Ujala*
- Sharma, C. K. 'Mizoram Ko Vikas Chahiye: Jatiya Rashtravaad Ke Bajai Sanrachnatmak Parivartan Ke Vado Par Bharosa' (Mizoram Aspires for Development: Preference for Promises of Constructive Change to Ethnic Statism), December 6, 2023, *Amar Ujala*
- Sharma, C. K. 'Mukhyamantri ki baat par kitnabharosakarsakega Manipur' (Can the Chief Minister's Call assure the people of Manipur), August 21, 2023, *Hindustan*
- Sharma, C. K. 'Purane Manmutaoaur Naye Ghav ka Manipur' (On the Manipur Ethnic Violence), May 10, 2023, *Hindustan*

Conference/Workshop/Symposium/Seminar etc. Attended

Name of Faculty/St aff	Purpose of Attending	Title of Event	Date/ Period	Organizer and Venue

Member				
Pamidi Hagjer	Presentation	19 th World Anthropology Congress	14-20 October, 2023	IUAES, University of Delhi
Amiya Kumar Das	Presentation	XX ISA World Congress of Sociology in	25 June- 1 July, 2023	International Sociological Association, Melbourne, Australia
Subhadeepta Ray	Presentation	19 th World Anthropology Congress	14-20 October, 2023	IUAES, University of Delhi
Amiya Kumar Das	Presentation	19 th World Anthropology Congress	14-20 October, 2023	IUAES, University of Delhi
Sarmistha Das	Presentation	19 th World Anthropology Congress	14-20 October, 2023	IUAES, University of Delhi
Nirmali Goswami	Paper presentation	20TH ISA WORLD CONGRESS, MELBOURNE (online)	27/06/2023	International Sociological Association, Melbourne, Australia
Nirmali Goswami	Paper Presentation	20TH ISA WORLD CONGRESS, MELBOURNE (online)	28/06/2023	International Sociological Association, Melbourne, Australia

Invited Talk

Name of Faculty Member	Title of theTalk	Title of the Event	Date	Organizer and Venue
Chandan Kumar Sharma	1.“Religion and Society of Northeast India: Exploring new Frontiers”	Keynote Address, National Seminar on “Religion and Society of Northeast India: Exploring new Frontiers”	27-02-2024	Dept. of Sociology, Unity College, Dimapur, Nagaland.
	2.Assamese Culture: A Confluence of Diversity	Plenary Speech, National Seminar on “Culture and Cultural Diversity of Northeast India”.	20-03-2024	Dr. Ramdayal Munda Tribal Welfare Research Institute, Govt. of Jharkhand, Ranchi.
	3. Socio-economic and cultural Significance of Rivers in Northeast	Keynote Address, National Seminar on “Socio-economic	15-03-2024	Dept. of Botany and Dept. of Economics, Madhavdeb University. Assam.

	India	Evaluation of Rivers in Northeast India.		
	4. Land and Sustainable Livelihood: The emerging scenario in Assam	Keynote Address, “Visualizing an Equitable and Vibrant Society” – Round Table on People’s Access to Land and Sustainable Livelihoods.	20-12-2023	Dept. of Social Work, Dibrugarh University and ActionAid Association (India), Dibrugarh University.
	5. Contemporary Development Discourse in Northeast India and the Indigenous Communities	Insight Series Lecture	06-10-2023	Humanities & Social Sciences Department, Indian Institute of Technology (IIT), Gandhinagar. Gujarat.
	6. Emerging Development Discourse in Northeast India	Annual Lecture	23-09-2023	Vivekananda Chair, Mahatma Gandhi University, Kottayam, Kerala.
	7. Emerging Socio-economic issues in Northeast India	Keynote Address, National Seminar on “Understanding Northeast India: Emerging Issues and Concerns”.	11-08-2023	Mahapurush Srimanta Sankardeva Vishwavidyalaya, Nagaon. Assam.
	8. Urbanisation and its Emerging Trends in Northeastern India	Resource Person, Faculty Development programme, “Revisiting Historiography: Language, Labour, Identity and Politics”,	03-05-2023	Dept. of History, Royal Global University, Guwahati. Assam.
	9. Ecological Sustainability and Local Moral Economy in a Resource Frontier: Understanding the Contemporary Development Discourse in Northeastern India.	Plenary Lecture, International Conference on Sociology Of and In Regions : Pedagogy, Practices and Possibilities.	28-04-2023 to 30-04-2023	Indian Sociological Society (ISS) in in collaboration the Ethnographic and Folk Culture Society, Lucknow and Giri Institute of Development

				Studies, Lucknow. Uttar Pradesh.
Nirmali Goswami	The commonsense about gender in education and work in India	Centre of Inclusion and Transformative Education AWAY Day	14/03/2024	Queens University Belfast, Northern Ireland, UK

Other Significant Activities of the Department

Events organized by the Department of Sociology, Tezpur University

1. Educating for Dialogue, Peace and Justice, Date: 26-28 April 2023
Resource persons: Prof. Amman Madan, Naveen K Paswan, Nupur Rastogi, Azim Premzi University, Bangalore
2. Interactive Session on “Creating and Sharing Knowledge in Indian Languages”
Guest speakers: Hridaykant Dewan and Rajni Dwivedi, Azim Premzi University Date: 01 September 2023
3. Department Lecture series: “On Bazaar Efficacy and Everyday Exchange in Urban India” Speaker: Maitrayee Deka, Senior Lecturer, Department of Sociology, University of Essex, Date: 18 September 2023
4. Department Lecture Series: ‘Burra Sahibs’ versus ‘Coolies’: Discipline and Resistant Labour in the Assam Valley Tea Plantations Speaker: Prof. Rana Behal, Former Professor, University of Delhi, Date: 25th September 2023
5. Department Lecture series: “Individual choice? On the rise of love in urban middle class India” Speaker: Dr. Anna Romanowicz, Assistant Professor, Department of Ethnology and Cultural Anthropology, Jagiellonian University, Krakow Poland
6. 13th Annual Conference, 2023 of Comparative Education Society of India, Date: 1-3 December 2023 [Theme: Changing Dynamics of Education: Perspectives and New Directions from Global South] Organized in collaboration with Department of Education and Teaching Learning Centre, Tezpur University
7. Workshop on Global Social Theory and Its Methodologies, Date: 5 – 9 February 2024, Resource Person: Prof. Sujata Patel, Organized by Department of Sociology, Tezpur University
8. 2 DAY Zonal Workshop on *District Level Action Plan for 11 Tea Intensive Districts for PMMVY under Mission Shakti* Organized by Department of Sociology, Tezpur University & UNICEF
 - 17-18 August, 2023, Tezpur
 - 24-25 August, 2023, Dibrugarh
 - 30-31 August 2023, Sibsagar
 - 5-6 September, 2023, Silchar

Number of Students Qualified in NET-JRF/SLET/GATE etc.

Name of Qualifying Examination	Number of Qualified Students	Academic Programme
<i>UGC-NET</i>	7	MA Sociology & Ph.D. Sociology
<i>UGC-JRF</i>	5	Ph.D. Sociology
<i>SLET</i>	1	M.A Sociology

Notable Placement of Students

Name of Student	Academic Programme	Placement Designation	Company/Organization
Shreeyohi Snigdha Borah	2021-2023	Assistant Professor (Contractual)	Nowgong College (A)
Sushmita Sutradhar	2021-2023	Gandhi Fellow	Piramal Foundation
Ayousree Dowara	2018-2023	Assistant Professor	PDUAM, Behali
Ritisha Baruah	2021-2023	Guest lecturer	Sibsagar girls' college
Sukanya Hazarika	2021-2023	Sociology and Geography teacher	Assam Valley School, on a contractual basis.
Monika Gogoi	2021-2023	Assistant Professor Sociology	MDKG College
Dristi Darsana Kashyap	2021-2023	NGO	Guwahati
Serdimi Timungpi	2021-2023	ICDS supervisor	Assam

DEPARTMENT OF MASS COMMUNICATION AND JOURNALISM

The Department

The Department offers two MA programmes -MA Mass Communication and Journalism and MA Communication for Development accompanying the PhD programme to equip students with the theory and practice of Media and Communication with a mission that underscores professional excellence with social commitment. The Department offers a conducive learning environment driven by a passion for Media and Communication Studies.

The Department is dedicated to the interdisciplinary understanding of communication in an increasingly networked society. The pursuit of the courses offered by the Department is to develop effective written, oral, visual, and digital communication skills and harness the responsibility as a journalist/communicator as well as a media student. The Department enables students to learn and apply ethical communications, and principles and inculcates a culture of research and innovation. The programmes are designed in a way that could develop critical and epistemological thinking of students in global politics, local development, ethics, culture, religion, social institutions, and their interconnectedness with the media in a continuously evolving social environment with constant technological advancement.

Over the years, the Department has evolved as a nodal centre for teaching-learning, training, and research in communication studies with national and international collaborations. This is epitomized in the numerous accolades it has received over time. The Department begged for the top position among Indian universities in the Times Higher Education Asia University Ranking 2018 in the category of Communication and Media Studies. Besides, our students are well-placed in various reputed academic institutions, national and international media houses, and government and non-government organizations. The faculty members, with a variety of specializations and wide-ranging experience, not only stimulate the students with intellectual curiosity but also facilitate professional competency that is much demanded in an ever-changing communication environment.

Thrust Areas

- Effective Communication and Participation accompanying Effective Written, Oral, Visual, and Digital Communication skills
- Critical and Multidisciplinary Thinking
- Social Scientific and Environmental Awareness
- Ethical Reasoning and Practices
- Research and Innovation

Academic Programmes and Student Intake

Programme	Intake
MA in Mass Communication and Journalism	44
MA in Communication for Development	15
PhD	Variable depending upon the vacancies every academic session

Major Facilities/ Equipment Available

- SCREENING HALL
- TV STUDIO Facilities
 - o 14 Apple computers with Final Cut Pro software for video editing
 - o TV studio with Panasonic P2 Camera (05 nos.)
 - o Teleprompter and other studio recording facilities
 - o UHF RODE Wireless Mic (01 no)
 - o FOR-A Video mixer with accessories (01 no)
- AUDIO STUDIO with the existing equipment
 - o Desktops with Sony Sound Forge with Pro Tools Console for audio editing (11 nos.)
- PHOTOGRAPHY Facilities/ Equipment
 - o Sony DSR 570wspl Camera (02 nos.)
 - o Canon 5D Mark III (01 no.), Canon 1500D (05 nos.)
 - o DSLR FLSH GODOX (01 no)
- PRINT LAB & NEW MEDIA PRODUCTION LAB
 - o Windows Intel i7 Desktops with Quark Xpress and Adobe software for print media practical (18 nos.)
 - o Desktop computer (26 nos.)
 - o Orion Online UPS 10 KV (01 no)

Research Projects: Ongoing and New

Project Title	Funding Agency	Amount (in INR)	Duration	Investigator(s)
Creating Online Multimedia Language and Cultural Resource Centre (Minor Project)	ICSSR	₹ 4.74 Lakhs	2022-23	M Deori

Journal Publications

Bora, A (Jointly with Ph D scholar). Coverage of India-related Scientific News in Western Media : An Analysis of the News Portals of The New York Times and The Guardian. Communicator. Vol. LVIII (1 & 2), January-June, 2023. Indian Institute of Mass Communication, New Delhi (UGC-CARE listed), ISSN – 0588-8093 (page 84-92)

Bora, A (joint publication with Ph D Scholar). The Continuities and Changes in India's soft power policy after 2014. Third Concept. Delhi (UGC-CARE listed). Vol. 37, No. 435, May, 2023, ISSN 0970-7247. (Page 75-78)

Bora, A. Integrating Bharatiya Knowledge System in Higher education for Potential Transmission of Our Culture and Tradition. University News (Association of Indian Universities, Delhi). Vol. 61, no 47. Nov. 24-26, 2023. ISSN 0566-2257

Borah, T., Hazarika, M., Borah, A. & Chakraborty, J. 'Socializing children in an unequal world: Gender disparities in Indian cartoon shows'. *The Communicator*. Vol LVIII (1&2). Pp. 21-27. IIMC, New Delhi. (Jan-Jun 2023). ISSN 05888093

Hazarika, M., Borah, A. & Chakraborty, J. 'Jogajog Prajukti Aru Gandhibador Prashongikota'. *Satsari*. Vol 18(12). Pp. 55-58. (July 2023). ISSN 23198893

Malakar K and Ray P. M, "Use of Twitter as a Tool for Digital Activism: A Study on the Citizen Amendment Act in Reference to Assam", International Journal of Research and Analytical Reviews (Ijrar), June 2023, Volume 12, Issue:2; E-ISSN: 2348-1269, P-ISSN:2349-5138

Bordoloi, S., & Deori, M. (2024). Instagram and Sustainable Fashion: Exploring Thrift Shopping among the Youth in Assam. *Inclusive*, 2 (25), 502-518, ISSN: 2278-9758 (UGC CARE Listed)

Mishra, S., Deori, M., & Pradhan, P. (2024). *Construction of contemporary masculinity in Bollywood: a study of select films starring Ayushmann Khurrana*. ShodhKosh: Journal of Visual and Performing Arts, 5(1), 881–894. (UGC CARE Listed)

Deori, M. {Joint paper} (2023). Coverage of Scientific news related to India in Western Media: An Analysis of two international news portals. *Communicator*, 58(1), ISSN: 0588-8093. (UGC CARE Listed).

Deori, M. {Joint paper} (2023). The Continuities and Changes in India's Soft Power Policy after 2014. Third Concept, Vol. 37 (435), 75-85. ISSN: 0970-7247. (UGC CARE Listed).

Deori, M., Lakra, B. K., & Muduli, A. (2023). Media Coverage and Depression Disorder Outcomes during COVID-19: An Exploratory Study in South Odisha. Global Media Journal, 21(64), 1-12.

Deka, J. India Science OTT and Vigyan Prasar Radio: A Stride to Promote Sustainable Development, Journal of Scientific Temper, Vol 11 (2), April-June 2023, pp. 54-66

Shukla, S., & Deka, J. Indian Hindi Web Series (2017–2022): Female Cops Questioning the Gender Binaries. Media Watch, August 2023. 14(3), 310-325. SAGE

Chhanchhuahi, V., & Deka, J. Digital Enhancement: A Drawbridge or a Detachment of the Digital Divide. Journal of Creative Communications, December 2023, SAGE

Pradhan, P. and Deka, J. Transgender Narratives and Representation in Chandigarh Kare Ashiqui and Gangubai Kathiawadi, Journal of Media and Communication, Central University of Tamil Nadu, eISSN: 2581-513X, Vol 7 (2), December 2023, pp. 94-109

BOOK

Chakraborty, J. Borah, A., Hazarika, M., Borah, T. & *Introduction to the Art and Craft of Journalism* (2024), Bookland Publishers, Guwahati, ISBN 978-93-90087-78-5

PUBLICATION OF ARTICLES IN OTHER FORMS

Bora A. Public Relations – ‘unpaid publicity’. Editorial Page – The Assam Tribune, April 21, 2023,

Bora A. Exploring Bandung (Travelogue). The Horizon (p -4), – The Assam Tribune, December 4, 2023,

Bora A. ‘Media sector poised for considerable growth’. (Face-to-Face column, Sunday Editorial page), The Assam Tribune, January 14, 2024,

Bora A. Shared Stories. The Sunday times supplement (p – 1), The Assam Tribune, March 10, 2024,

Seminars/Conferences/Workshops/Symposia Attended

Name of the Faculty Member	Event and Title of the Paper	Date	Place/institute/venue
A Bora	Science and Health communication in Communication and Media pedagogy of higher education institutions : A case study of Assam (India) 29 th Annual Conference of Asian Media Information and Communication Centre (AMIC)	29 September 2023	Bandung (Indonesia)
A Bora & S Roy	The story of the coloured wall : Role of political wall graffiti in promoting party ideologies and influencing voting patterns in West Bengal 29 th Annual Conference of Asian Media Information and Communication Centre (AMIC)	29 September 2023	Bandung (Indonesia)

J Chakraborty & D Roy	Every Day Around The Screen: Exploring Children's Digital Experiences In India 29 th Annual Conference of Asian Media Information and Communication Centre (AMIC)	28-30 September 2023	Bandung (Indonesia)
J Chakraborty & A Borah	Modeling a Vedic Competency Framework for Crafting the Global Citizen- An Inquiry into the Education Policy of India 29 th Annual Conference of Asian Media Information and Communication Centre (AMIC)	28-30 September 2023	Bandung (Indonesia)
J Chakraborty	Voices From the Fringe Media Meeting the Algorithmic Challenge Moscow Readings Conference	9 November 2023	Moscow (online)
	Instagram as a space for identity construction and personal exploration for women entrepreneurs (International Conference)	26 May 2024	BioGenegis Health Cluster , Bengaluru

K Malakar	An Auteur Perspective of Neo Realism in Select Assamese Films (National Conference)		Manipur University
K Malakar & T.P Neog	AI as Enabler and Constraint in Academics and Allied Profession: A Case Study Of AI Based Practices And User's Perception (International Seminar)	01-03 December 2023	Banaras Hindu University
K Malakar & P Haloi	Navigating Self Identity with the Image of the Nation: A Case Study on the Travel Blogs of Women and Consumers (National seminar)	06-07 March 2024	Department of Foreign Languages, Tezpur University
	Caste-ndemic: crisis of caste-based (un)touch ability in the times of corona (International Conference)	15 December 2023	Dept. of English, Tezpur University
	Foreign media reportage on Chandrayaan-3 (National Seminar)	16 November 2023	Central University of Punjab

	Regional digital news media: understanding the politics of participation and representation (International Conference)	16 March 2024	Fakir Mohan University, Odisha
	Completed Short Term Course on NEP Orientation and Sensitization	19 February 2024-28 February 2024	MM-TTP-MMTTC, Tezpur University

Talks by the Faculty Abroad and In India

Name of the Faculty Member	Event	Date	Place /institute/venue
	National Press Day, Sonitpur District head office Topic “Media in the age of Artificial Intelligence”	16 November 2023	Tezpur, District Administration, Conference Hall of district
	Two-day state level journalists’ workshop Topic - “Mass media in today’s age of Artificial Intelligence, Misinformation and Disinformation”	15-16 July 2023	Guwahati Press Academy, registered society dedicated for journalism issues, Lakshmiram Baruah Sadan, Guwahati

	<p>Inter-Disciplinary Refresher course (IDRC) on Literature, Language and Culture in the Digital Age</p> <p>Topic – “Media, culture and society in the digital age”</p>	18 December 2023	PMMMTTC, Tezpur University, Tezpur
	<p>National conference on Changing Media Landscapes and Society (NCLMS'24)</p> <p>Keynote speech - “Media in the changing scenario of present day ecology</p>	24 March 2024	Department of Mass Communication, Manipur University, Canchipur, Imphal, (Manipur)
	<p>International Conference of Media & Communication (ICMCII)</p> <p>(Session Chair)</p>	29-30 January 2024	School of Media and Communication, Adamas University, Kolkata
	<p>Three-day Writing Workshop for employees of Sesta Development Services (SDS)</p>	5-7 October 2023	Guwahati
	<p>Delivered ‘Lecture on role of ICC’ at BTech induction programme</p>	21 August 2023	Tezpur University

Seminar/Workshop/Symposia/Invited Lectures Organised

Event	Duration
National Press Day was observed on November 16, 2023 with Mr PJ Baruah, Executive editor of The Assam Tribune as the chief guest and resource person along with Prof. Mrinmoy Sharma, then Dean (academic Affairs, Prof. Farheena Danta, Dean, HSS School. A newsletter was also published on the occasion.	16 November 2023
A seven-day workshop organized on Forum Theatre and Puppetry from October 31 to November 6, 2023, subsequently a show - Puppetry and Theatre extravaganza, an outcome of a 7 day workshop on November 7, 2023. Mrs Drishana Kalita, Communication Specialist and Founder of Puppet People Assam, a folk puppetry group and Mr. Manas Protim Neog, Founder Director of NAAT Foundation and a Television Actor resourced the sessions.	31 October - 6 November 2023
The 30th World Press Freedom Day was observed by the Department of Mass Communication and Journalism, Tezpur University on 3 May, 2023. The theme for the year was 'Shaping a Future of Rights: Freedom of Expression as a Driver for all Other Human Rights'. The keynote address was delivered by Mr. Sachin Gogoi, Editorial Lead, BBC News, New Delhi. Highlighting the global media landscape. The students came up with a skit, 'Press – A Dangerous Business' which was a satire to the current situation of the press in India intertwined between forces that affects its freedom. The event concluded with a cultural presentation.	3 May, 2023
The Department of MCJ organized open session <i>Karyanti</i> for the students of Tezpur University to jointly mark two significant occasions- International Workers Day and World Day for Safety and Health at work. The aim was to create awareness regarding workplace well-being and safety. The event was followed by a panel discussion that featured three expert panelists Anantara Saikia Vauqueline, HR Manager at Tech Variable, Bornali Borah, Counselling psychologist, and Dr. Diptarup Chowdhury, Associate professor of Clinical Psychology at LGBRIMH	1 May 2023

<p>The Department conducted an event titled ‘PRabha’ on the occasion of National Public Relations Day, which took place on April 21, 2023. The objective of the event was to raise awareness among students about the importance of public relations and communication. The event started with the inauguration of the wall magazine by the Dean, School of Humanities and Social Sciences Prof. Farheena Danta followed by a welcome address by the Head, Department of MCJ, Prof. Abhijit Bora. Invited speakers of the event were: Ms. Elora Baruah from IOCL, Mr. Swakkyar Deka, a Public Relations practitioner under the Government of Assam, Ms. Neena, DIPRO, Sonitpur and Mr. Samaresh Barman, Public Relations and Information Officer, Tezpur University, Ms. Jayeeta Das, BCPL, Mr. Dibyajyoti Sarmah, a Public Relations Practitioner under the Government of Assam and Ms. Kuwoli Hazarika from Grid India.</p>	21 April, 2023
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Name of the faculty member	Academic Body	Period / year	Affiliated to
A Bora	Member, Editorial Board, Publication Committee of Directorate of Indigenous and tribal Faith and culture, Government of Assam, Guwahati,	03 years since 2023	Government of Assam
A Bora	Board of Studies, Journalism and Mass Communication Department, North-Eastern Hill University, Shillong, Meghalaya, `	03 years since 2023	N.E.H.U., Shillong
A Bora	S.E.M.I.S. Board, Mizoram University, Aizwal, Mizoram,	03 years since 2023	Mizoram University, Aizwal

DISTINGUISHED VISITORS

- Mr PJ Baruah, Executive Editor, The Assam Tribune, Guwahati,
- Prof. Charvak, Dept. of Mass Communication, Assam University, Silchar,
- Ms. Anatara Saikia, HR Manager, Tech variable
- Ms. Bornali Borah, Counselling Psychologist
- Diptarup Chowdhury, Associate Professor, Clinical psychology, LGBRIMH
- Mr. Sachin Gogoi, Editorial Lead BBC News, India
- Mr. Sushanta Talukdar, Executive Editor, Nezine
- Ms Ratna Bharali Talukdar, Editor, Nezine
- Mr. Manas Protim Neog, Founder Director of NAAT Foundation and a Television Actor
- Mrs Drishna Kalita, Communication Specialist and Founder of Puppet People Assam, a folk puppetry group
- Ms. Elora Baruah, IOCL, Guwahati
- Mr. Swakkyar Deka, a Public Relations practitioner under the Government of Assam
- Ms. Neena, DIPRO, Sonitpur
- Mr. Samaresh Barman, Public Relations and Information Officer, Tezpur University
- Ms. Jayeeta Das, BCPL, Dibrugarh
- Mr. Dibyajyoti Sarmah, a Public Relations Practitioner under the Government of Assam
- Ms. Kuwoli Hazarika from Grid India.

Notable Placements

Name	Designation	Organization
Madhusmita Boruah	Assistant Professor	Bhattadev University, Bajali
Rajat Sen	Senior Information and Public Relations Officer	Govt. of Assam
Prabhat Kumar	Public Relations Officer	Tehri Hydropower Development Corporation, Khurja Super Thermal Power Plant, Bulandshahr, Uttar Pradesh
Mohsin Alqab	Senior Public Affairs Officer	Oil, Duliajan

Faculty Members and Staff

Professor

Abhijit Bora, PhD (Gauhati University)

Head of the Department

Specialization/Areas of interest: Radio and Development Communication, Journalism, Media Writing, Community Radio, Science and Health Communication

Email: abhijitb@tezu.ernet.in

Joya Chakraborty, PhD (University of Hyderabad)

Specialization/Areas of interest: ICT for Development, Development Communication, Women and Media, Traditional Media.

Email: jc@tezu.ernet.in

Assistant Professor

Perosh Jimmy Daimari, PhD (Tezpur University)

Specialization/Areas of interest: Film Studies, Photography Email:daimari@tezu.ernet.in

Kapou Malakar PhD (Tezpur University)

Specialization/Areas of interest: Political Communication, International Relations, Human Rights, Digital Media, Media and Culture, Convergent Journalism

Email: kapou@tezu.ernet.in

Anjuman Borah, PhD (Tezpur University)

Specialization/Areas of interest: Media and Children, Children's Participation, Participatory Communication, Advertising and Public Relations

Email: anjuman@tezu.ernet.in

Junali Deka, PhD (Assam University)

Specialization/Areas of interest: Digital media and society, Cinema studies, science communication, Gender and Media

Email: junalid@tezu.ernet.in

Manoj Deori, PhD (Berhampur University, Berhampur) (On Lien)

Specialization/Areas of interest: New Media Journalism, Multimedia Production, Media and Disaster Management, E-learning

Email: manojdeori@tezu.ernet.in

STAFF MEMBERS

Technical Officer

Ratul Chandra Nath, PhD (Tezpur University) Email: ratul@tezu.ernet.in

Senior Technical Assistant Chanchal Singha, BCA, KKHSOU Email: chansan@tezu.ernet.in

Assistant

Nikita Saikia

Email: nikitasaikia234@gmail.com

MTS

Bubul Das

School of Management Sciences

Report of the Dean, School of Management Sciences

Department of Business Administration

Department of Commerce

Centre for Disaster Management

Intellectual Property Rights Cell

REPORT OF THE DEAN, SCHOOL OF MANAGEMENT SCIENCES

The School of Management Sciences comprises of the Department of Business Administration, Department of Commerce, Centre for Disaster Management, and Intellectual Property Rights Cell. The School focuses on creating skilled human resources along with humanitarian values satisfying the needs of the recruiters.

The Department of Business Administration started functioning on January 18, 1995, and currently offers PhD, MBA (4 Semesters), MTTM (4 Semesters), MBA Executive (3 Semester), and NCCMP Certificate Course in National Stock Exchange Certified Capital Market Professional, a one semester certificate course). Several major industry-oriented research projects sponsored by IGIDR, AICTE, Planning Commission, GoI, MHRD, NEDFI, MAKAIAS and ICSSR have been carried out by the faculty members of the Department. Currently the Department is in the process of revamp the syllabi of both the MBA and MTTM programmes keeping in mind the recent trend and demand of the recruiters.

The Department of Commerce successfully implemented the new course structure aligned with the National Education Policy (NEP) 2020 during the Autumn Semester 2023. The curriculum has been developed in accordance with the Curriculum and Credit Framework for Undergraduate Programmes, as recommended by the University Grants Commission (UGC) in 2022. The revised course structure aims to enhance academic rigor and provide a comprehensive learning experience that aligns with the evolving educational standards and industry needs.

Tezpur University Intellectual Property Rights Cell (TUIPR Cell) was established in 2009 with a vision to develop human resource in the management of Intellectual Property Rights as an integral part of the innovation process and the innovation value chain in the University. Several patent, copyright and industrial design applications have been filed based on the innovations done in Tezpur University. The Cell has been involved in several IPR awareness and implementation programmes in the University Campus and also across the North East region.

The Centre for Disaster Management was established in 1997 Under the Central Sector Scheme on Natural Disaster Management Programme, Ministry of Agriculture and Cooperation, GoI mainly to conduct training programmes and workshops on Disaster Management for different target groups. The Centre offers Open Elective courses for the various programmes run by the University. It also started P.G. Diploma in Disaster and Environmental Management in distance mode in association with Department of Environmental Science, TU.

The detailed information regarding the different Departments and Cells under School of Management Sciences is available in the reports of the Heads of the Departments and Centres.

DEPARTMENT OF BUSINESS ADMINISTRATION

About the Department

The Department of Business Administration started functioning under the School of Management Sciences on January 18, 1995, with its first batch of MBA students. Currently, it offers following programmes:

PhD

MBA Masters in Business Administration (4 Semesters),

MTTM Master in Tourism and Travel Management (4 Semesters),

MBA Executive (3Semester),

NCCMP Certificate Course in National Stock Exchange Certified Capital Market Professional

The Department has produced 29 batches of Full Time MBA Graduates, 4 batches of Part Time MBA Graduates, 14 batches of Post-Graduate Diploma in Tourism Management, and 7 batches of Master of Tourism and Travel Management.

For MBA (Full Time), the Department offers dual specialization in the areas of Marketing Management, Human Resource Management, Financial Management, and Operations Management and Systems Management. The Department draws students and faculty from premier institutes of the country and interdisciplinary backgrounds. The Department also has several international students.

Several major industry-oriented research projects sponsored by IGIDR, AICTE, Planning Commission GoI, MHRD, NEDFI, MAKAIAS and ICSSR have been carried out by the faculty in thrust areas such as, Entrepreneurship, Small Enterprise Management, Tourism Management, Rural Development, Organizational Development, Tax Management, and Micro Finance. In addition, the Department has been organizing Refresher Courses, Faculty Development Programme and Management Development Programmes for Executives of reputed organizations and offers consultancy services to organizations.

The Department has a well-equipped computer lab with educational and research software. Classrooms are ICT enabled. The Department ensures that the students get theoretical knowledge and extensive practical exposure through the field and Industry visits. Many faculty members from the Department are associated with reputed national and international Institutions. The Department incorporates the latest trends in management education into pedagogy. All students undergo a foreign language course (French, German or Chinese) under (Choice Based) Open Electives.

Academic Programme and Student Intake

Academic Programme	Student Intake
<i>Master of Business Administration (Full Time, 4-Semester)</i>	58
<i>Master of Business Administration (Executive, 3-Semester)</i>	30
<i>Master of Tourism and Travel Management (Full Time, 4-Semester)</i>	19
<i>Certificate Course in NSE Certified Capital Market Professional (NCCMP)</i>	35
<i>PhD (variable intake, depending on vacancies)</i>	Variable

Thrust Research Areas of the Department

- Functional and Applications areas of Management
- Sustainable and Inclusive Development
- Tourism

Major Facilities / Equipment available

- ✓ ICT Enabled Classroom 05
- ✓ Board Room 01
- ✓ Seminar Hall 01
- ✓ MDP/ Case Study Room 01
- ✓ Student Lounge with Lockers 01
- ✓ Girls Common Room 01 (with S/pad dispenser)
- ✓ Corporate Lounge 01
- ✓ Interview Room 01
- ✓ Library 01, with reading facility
- ✓ Computer Lab 01, ICT enabled, for practical classes and CBT

Faculty Members

Designation	Name	Highest Qualification (Institute)	Specialization	<email>@tezu.ernet.in	Date of joining current position
	Mrinmoy Kumar Sarma	PhD (Tezpur University)	Tourism Marketing, Relationship Marketing, Services Marketing, Salesmanship, Research Methodology	mrinmoy	24-01-2005

Professor	Subhrangshu S. Sarkar	PhD (Tezpur University)	Accounting, Taxation, Social Development Issues	subh	03-09-2010
	Debabrata Das	PhD (Rajiv Gandhi University)	Financial Management, Microfinance, Banking, Capital Market, Insurance Financial Inclusion	ddas09	06-09-2010 (Presently on lien)
	Chandan Goswami	PhD (Tezpur University)	Marketing, Advertising, Tourism	chand	27-12-2012
	Papori Baruah	PhD (Tezpur University)	Behavioral Sciences, HR, Change Management, NGOs	papori	16-01-2015
	Anjan Bhuyan	PhD (Tezpur University)	Managerial Economics, Entrepreneurship, International Trade, Economics of Tourism, Rural Development	anjanb	9-10-2023
	Arup Roy	PhD(Tezpur University)	Stock Market, Derivatives, Financial Engineering, Microfinance	arup	11-11-2022
	Tridib Ranjan Sarma	PhD (Tezpur University)	Optimization, Operations, Project Management, Quality Management, Adventure Tourism	tridib	13-11-2009
	Runumi Das	PhD (Gauhati University)	HR, Marketing, Tourism	runumi	24-05-2022
	Heera Barpujary	PhD (Tezpur University)	Web Technology, Knowledge Management	heera	23-08-2005
	Kakali Mahanta	PhD (Dibrugarh University)	HR	kakali	03-03-2012
	Mridul Dutta	PhD(Gauhati University)	Tourism, IPR	mridul	01-10-2010
	Prayash Baruah	MBA (Symbiosis Institute of Operations Management)	Operations Management	prayashb	01-02-2017
	Dr. Niranjan Das	PhD	Tourism	das_niranjan2002	Autumn 2024

				@yahoo.com	
	Ms Anisha Mahanta	PhD (pursuing)	Marketing	anisham	Spring & Autumn 2024
	Ms Jayashree Saha	PhD (pursuing)	Finance	jayashree saha235 @gmail.com	Spring & Autumn 2024
<i>Adjunct Faculty</i>	Dr. Samir Baruah	PhD	MSME, Entrepreneurship	samir.baruah@gmail.com	Spring & Autumn 2024

Officers and Staff Members

Designation	Name	<email>@tezu.ernet.in	Date of joining current position
<i>Senior Technical Assistant</i>	Tarunjyoti Borah	taruntu	13-07-2010
<i>Technical Assistant</i>	Kushal Roy	kushal	05-07-2013
<i>Multi Tasking Staff</i>	Suren Kumar Borah	surenb	01-11-1996
<i>Office Assistant</i>	Subham Paul	subhamp	18-02-2022

Publications by Faculty (*Selected List*)

1. Dutta, M & Dutta, PK (2023). Community-based conservation in Eastern Himalayan biodiversity hotspot- a case study. *Indian Journal of Traditional Knowledge*, 22 (1),220:229
2. Borsaikia T, Kalita A, & Dutta M (2023). Scope for branding *Dora Baran Gamosa* through intellectual property rights and technology. *Journal of Heritage Management*, 8 (2),195-209
3. Das, N. & Sarma M. K.(2023). Food Tourism as an alternative livelihood for a forest dependent community: An exemplary case of natundanga, India.). *Annals of the Bhandarkar Oriental Research Institute*, C (11),87-103
4. Sarma, T R, Mehdi, M, et al(2023). Gattani Industries: growth strategy for India. *EMERALD EMERGING MARKETS CASE STUDIES; ISSN 2045-0621*, 13 (NO. 4 2023),1-21
5. Sarma, T R, Saha, J(2023). Exploring The Last Mile: Comparing India Post And Private Courier Service Providers' Service Quality, Satisfaction, And Preference. *Journal of the Asiatic Society of Mumbai (ISSN: 0972-0766)*, 97 (12, December 2023),07-23
6. Hussain A., Sarma, T R, Barua, P.(2023). The Indian Muga Silk Industry: An Integrative Review of its Business Ecosystem and a Management Perspective. *International Journal of Indian Culture and Business Management*, (InderScience,

Web of Science)

7. Hussain A., Barua, P., Sarma, T R (2023). Supply chain mapping for supply chain visualisation: Muga silk industry in Assam. *International Journal of Indian Culture and Business Management, (InderScience, Web of Science), Vol.28 (No.3,),pp.401 - 424. DOI: 10.1504/IJICBM.2023.129710*
8. Dutta, D. & Sarma, M. K.(2024). Adoption of technological service innovations: A systematic review investigating the special role of incremental innovations. *International Journal of Technology, Policy and Management, 24 (2), 124-144*
9. Sarma, T R, Mehdi, M, et al (2024). Tito's Goa: deciding the growth strategy for India?. *EMERALD EMERGING MARKETS CASE STUDIES; ISSN 2045-0621, 14/1 (NO. 1, 2024),1-21. DOI 10.1108/EEMCS-06-2023-0209*

Number of Students Qualified in NET-JRF/SLET/GATE etc. : 06

Number of Students selected for ACS and Allied services. : 05

Notable Placement of Students (Campus Placements):

Name Of Student	Designation	Company / Organization
1. Anannya Phukan	Functional Consultant	Deloitte USI Consulting
2. Sheikh Roushan	Functional Consultant	Deloitte USI Consulting
3. Niharika Saikia	Management Trainee	DHL Global Forwarding
4. Dikshita J Kashyap	Assistant Manager (Grade A)	IDBI Bank Ltd
5. Sampriti Borah	Assistant Manager (Grade A)	IDBI Bank Ltd
6. Jiban Jyoti Gogoi	Assistant Manager (Grade A)	IDBI Bank Ltd
7. Debasish Sengupta	Assistant Manager - Grade A	IDBI Bank Ltd
8. Tanuj Dutta	Senior Sales Officer Trainee	Berger Paints
9. Bishal Pratim Sarmah	Management Trainee	Cholamandalam
10. Jiumon Das	Management Trainee	Cholamandalam
11. Abhigyan Nath	Management Trainee	Cholamandalam
12. Raktim Neog	Management Trainee	Cholamandalam
13. Dhritiman Jyoti Kalita	Management Trainee	Cholamandalam
14. Asmita Kashyap	Management Trainee	Cholamandalam
15. Imran Khan	Management Trainee	Cholamandalam

Name Of Student	Designation	Company / Organization
16. Koushik Kumar Saha	CD Intern	Colgate Palmolive
17. Himasri Bhattacharya	CD Intern	Colgate Palmolive
18. Sourav Das	Deputy Manager Scale 2	ICICI Bank
19. Detrolus Rongpi	Deputy Manager Scale 2	ICICI Bank
20. Nisha Dowari	Deputy Manager Scale 2	ICICI Bank
21. Bahniman Dutta	Deputy Manager Scale 2	ICICI Bank
22. Neeraj Dutta	Deputy Manager Scale 2	ICICI Bank
23. Priyanka Hazarika	Deputy Manager Scale 2	ICICI Bank
24. Syed Zaffar Niaz	Deputy Manager Scale 2	ICICI Bank
25. Kaushik Das	Relationship Manager	ICICI Bank
26. Banashree Baruah	Assistant Manager	ICICI Bank
27. Jadav Burathoki	Distributor And Sales Exec	Perfetti Van Melle
28. Prateeksha Khound	Area Sales Executive	Reliance Consumer
29. Diksha Khanikar	Management Trainee (HR)	Reliance Retail
30. Prasenjit Mandal	Management Trainee	SBI Life
31. Bhaswati Haloi	Management Trainee	SBI Life
32. Karishma Bora	Development Manager	SBI Life
33. Nisha Thakur	Assistant Manager	SBI Life
<i>A significant number of students opted out of Placement assistance for Entrepreneurship / Competitive exams.</i>		

Other Significant Activities / Achievements of the Department

1. **Student's success:** A group of students of MBA (and of another Department) won First Position in a World Bank sponsored contest organized by Assam Government on the theme of Utilization and Commercialization of River Brahmaputra and its tributaries. This project was prepared under mentorship of Dr Tridib R Sarma and Prayash Baruah.
2. **Alumni involvement:** Alumni of this Department (2nd Batch, MBA) have created an endowment with the University for award of Fellowship for research excellence at the Department. The first such Fellowship was awarded to Research Scholar, Ms Sikha Sadani. This Fellowship is in memory of Dr Banasree Dey, who at the time of her demise due to Covid-19 was a Faculty with a reputed B-School.

DEPARTMENT OF COMMERCE

About the Department:

The Department of Commerce is the second department established under the "School of Management Sciences". It came into existence in the year 2013. The department offers 5 years Integrated Master of Commerce (M. Com.) programme since 2014. The Integrated M.Com programme offers the option of lateral exit on successful completion of six semesters with a B.Com (Hons) degree and lateral entry in the Seventh Semester (subject to fulfilment of eligibility criteria) for the M. Com. Degree. The new course structure as per NEP 2020 for Four Year Undergraduate Programme (FYUGP) was introduced in the Autumn Semester of 2023. The NEP-based new course structure has been developed considering the Curriculum and Credit Framework for Undergraduate Programmes, UGC (2022). The department also offers Doctor of Philosophy (Ph.D.) in Commerce programme from the academic session 2020-2021. Scholars joining the Ph.D. programme in the department need to compulsorily complete the coursework where they need to complete 16 credit courses over the period of two academic semesters. The department aims to ensure that the scholars completing the Ph.D. course from the department can establish themselves in the field of academics and can make qualitative and meaningful contributions to the existing body of knowledge. Apart from providing quality education, this department ensures that the youths can face the various competitive examinations and pursue various other courses. The Department aims to impart quality education to its students and inculcate research culture among them to equip them with the necessary skills and knowledge needed for employment in corporate sectors and/or to pursue research careers.

Academic Programmes and Student Intake

Academic Programme	Intake
Integrated M.COM	34
M.COM	Variable, 7
Ph. D in Commerce	Variable, 02

Thrust Research Areas of the Department/Centre

- Accounting
- Finance
- Economics

Major Facilities/Equipment available

- Smart Classroom
- Computer Lab
- Interactive Pen Display
- Multi Media projectors
- Audio Podium with Microphone and Speaker

- Student Response system
- Digital Notice Board

Faculty Members

Designation	Name	Highest Qualification (Institute)	Specialization	<email>@tezu.ernet.in	Since
Professor	Santi Gopal Maji	Ph. D	Intellectual Capital, Corporate Sustainability and Sustainable Development, Risk Management, Corporate Governance	sgmaji@tezu.ernet.in	16-12-2022
	Reshma K. Tiwari	Ph. D	Accounting, Auditing, Forensic Accounting	reshma@tezu.ernet.in	05-03-2014
	Farah Hussain	Ph. D	Econometrics , Mathematical Economics, Development Economics	farah@tezu.ernet.in	16-01-2017
	Biswajit Ghose	Ph. D	Corporate Finance, Corporate Governance, Microfinance	bghose@tezu.ernet.in	10-12-2019
	Dhritabrata Jyoti Bharadwaz	M. Phil	Accounting, Finance, Risk Management	bharadj@tezu.ernet.in	23-07-2018
	Prasenjit Roy	Ph. D	Banking and Finance	royp@tezu.ernet.in	29-11-2021
	Satish Chandra Tiwari	Ph. D	Corporate Finance, Accounting, Sustainability	sctiwari@tezu.ernet.in	1.11.2024

Guest Faculty	Amitava Banerjee, CS	ACS, LLB, M. Com	Corporate Governance & Company Act.	amitbanerjee1979@gmail.com	Autumn Semester 2021, Spring Semester 2022, Autumn Semester 2022, Spring Semester 2023 and Autumn, 2023
	Akankhya Bhuyan			akankhyabhuyan@gmail.com	Autumn Semester 2022, Spring Semester 2023, Autumn Semester 2023 & Spring 2024
	Nivaj Gogoi			nivajgo@gmail.com	Spring Semester 2023, Autumn 2023 & Spring 2024
	Madhurjya Goswami			madhurjyagowami108@gmail.com	Spring Semester 2023 & Autumn 2023

Staff Members

Designation	Name	<email> @tezu.ernet.in	Since
Office Assistant	Bibek Ranjan Deka	bibekd@tezu.ernet.in	15/12/2023
MTS	Nipen Dutta	nipend@tezu.ernet.in	06/02/2016

Publications by Faculty and Staff Members*Publication of Articles in UGC-CARE Listed Group I/Group II Journals*

- Tiwari R.K. & Jha R.K. (2024). “Corporate governance and firm risk-taking: empirical evidence from India”, *International Journal of Law and Management*, DOI 10.1108/IJLMA-01-2024-0028, (Accepted)
- Tiwari, R.K. & Maji, S.G. (2024). Impacts of corporate governance attributes on audit quality in emerging economies: the case of India. *South African Journal of Accounting Research* (Accepted)
- Chetry P., Tiwari, R.K. and Shekar, M.C. (2023). Forensic Accounting Education: Challenges, Benefits and Pedagogical Approaches. *The Management Accountant*. 59 (3), 82-86.
- Kalita N. & Tiwari R.K. (2023). Audit Committee Characteristics, External Audit Quality, Board Diversity and Firm Performance: Evidence from SAARC Nation. *Journal of Economic and Administrative Sciences*. 1026-4116. 0.1108/JEAS-08-2023-023
- Tiwari R.K. and Chetry P. (2023). Forensic Accounting Education and Profession: A Swot Analysis. *The Management Accountant*. 58 (8). 99-103.
- Tiwari R.K. and Chetry P. (2023). Forensic Accounting Services: The Requisite Knowledge and Skill. *Finance India*. 39 (3) (Accepted)
- Kalita N. & Tiwari R.K. (2023). Audit Quality Review: An Analysis Projecting the Past, Present, and Future. *Scientific Annals of Economics and Business*. 70 (3). 353-377. <https://doi.org/10.47743/saeb-2023-0032>
- Kalita N. & Tiwari R.K. (2023). Factors Affecting Non-Audit Fee: An Insight from Literature. *Prajnan: Journal of Social and Management Sciences*. 52 (2). 131-154.
- Tiwari R.K., Kalita N. & Maji S.G. (2024). Determinants of Non Audit Services: Empirical Evidence from India. *The IUP Journal of Accounting Research & Audit Practices*. 23 (1). 87-104.
- Roy, P. & Maji, S.G. (2024). Dividend Policy and COVID-19 pandemic: An Empirical Study of Indian Firms. *Global Business and Economics Review*. 10.1504/GBER.2025.10062265
- Ghose, B., Mekan, L. T., & Kabra, K. C. (2024). Carbon Emission Intensity, Energy Management Practices and Financial Leverage: Evidence from Emerging Indian Economy. *Global Business and Economics Review*. 31 (1). 23-43. <https://doi.org/10.1504/GBER.2024.139311>
- Saha, R. & Maji, S.G. (2024). Board Gender Diversity and Voluntary Disclosure: Moderation of Family Ownership in India. *International Journal of Accounting & Information Management*. 1834-7649. <https://doi.org/10.1108/IJAIM-05-2023-0132>
- Maji S.G. & Saha, R. (2024). Female Directors and Firms’ Financial Performance: An Empirical Application of Kanter’s Theory in The Indian Context. *CORPORATE GOVERNANCE*. 24 (4). 882-899. <https://doi.org/10.1108/CG-07-2022-0308>

- Maji S.G. & Lohia, P. (2024). Assessing The Effect of Core and Expanded ESG on Corporate Financial Performance: COVID-19's Moderating Role. *Journal of Indian Business Research*. 16 (2). 244-264. <https://doi.org/10.1108/JIBR-07-2023-0233>
- Maji S.G. & Lohia, P. (2024). Unveiling the financial effect of ESG Disclosure on Financial Performance in India: climate-sensitive corporates' perspective. <https://doi.org/10.1108/IJOES-02-2024-0039>
- Maji S.G. & Saha, R. (2024). Does Intellectual Capital Influence Banks' Efficiency? Evidence from India using Panel Data Tobit Model. 50 (4). 697-717. <https://doi.org/10.1108/MF-05-2023-0303>
- Saha, R. & Maji, S.G. (2023). Do Green Bonds Reduce CO2 Emissions? Evidence from Developed and Developing Nations. <https://doi.org/10.1108/IJOEM-05-2023-0765>
- Maji S.G. & Lohia, P. (2023). ESG Disclosure and Financial Success: A Comparative Dive into India's Manufacturing and Service Sectors. <https://doi.org/10.1504/IJSE.2025.10061702>
- Saha, R. & Maji, S.G. (2023). Impact of Board's Educational Diversity on Firm Performance: Evidence from Top Listed Indian Companies. *IUP Journal of Corporate Governance*.
- Tiwari, S.C., Kishan, J. & Akash, R. (2024). A Sectoral Analysis of Private Equity Investments and Exits an India. *IUP Journal of Accounting Research & Audit Practices*.
- Manbhanjan, S., Kishan, J., U, Furqan, Alamgir, Tiwari, S.C. (2024). Mapping the Path to Sustainable Accounting: A DEMATEL-Based Analysis of Key Factors Influencing Effective Extended Producer Responsibility in the Circular Economy. *Journal of Accounting and Organisational Change*. <https://doi.org/10.1108/JAOC-01-2024-0043>
- Gogoi, N. & Hussain, F. (2024). Application of the Environmental Kuznets Curve Hypothesis in the Indian Core Industries: Towards A Greener Economy. *Review of Development Economics*. <https://doi.org/10.1111/rode.13119>
- Maria, M. B. & Hussain, F. (2024). Impact of Board Gender Diversity on Performance of Public Sector vis-à-vis Private Sector Banks in India. *Gender in Management: An International Journal*. <https://doi.org/10.1108/GM-06-2023-0232>
- Gogoi, M. & Hussain, F. (2024). Economic and Non-Economic Determinants of Renewable Energy Consumption (REC): Evidence from BRICS Nations. *International Journal of Energy Sector Management*. 16 (1). 16-34. <https://doi.org/10.1108/IJESM-10-2023-0017>
- Gogoi, N. & Hussain, F. (2024). Investigating the Environmental Kuznets Curve Hypothesis and Pollution Haven Hypothesis in India: An ARDL Approach. *International Journal of Sustainable Economy*. <https://doi.org/10.1504/IJSE.2024.135199>
- Maria, M. B. & Hussain, F. (2023). Does Inflation Expectation Affect Banks' Performances? Evidence from Indian Banking Sector. *Journal of Economic and Administrative Sciences*. [10.1108/JEAS-05-2023-0123](https://doi.org/10.1108/JEAS-05-2023-0123)
- Goswami, P. N. and Bharadwaz, D. J. (2023). Corporate Sustainability Practices and Firm Value: An Empirical Study of Companies Listed in S&P BSE 100. *Madhya*

Pradesh Journal of Social Sciences. 28 (2 viii). 188-211. A biannually Journal of M. P. Institute of Social Science Research, Ujjain

Publication of Book Chapters

- Maji, S.G & Kalita, N. (2023). Corporate Climate Change Disclosure and Firm Performance: Testing the Apocryphal Relation. Editors, Kotlar, P., Roy, S., Chakraborty, S., Saha, D., & Mazumder, R. *Perspectives in Marketing, Innovation and Strategy*. Routledge Taylor and Francis. 218-225. ISBN: 9781032360898. <https://doi.org/10.4324/9781003434467-23>

Conference/Workshop/Symposium/Seminar etc. Attended

Name of Faculty/Staff Member	Purpose of Attending (Paper presentation/ Participation/Session Chairing/Chief Guest, etc)	Title of Event	Date/Period (in the dd-mm-yyyy format)	Organizer and Venue (Online/Offline)
Prasenjit Roy	Paper presentation	International Seminar on Accounting, Finance, Business, And Social Sciences (ISAFBS'2023)	14-09-2023	Organised by Dept. of Business Administration ,Assam University, Silchar (India), Dept. of Management North Eastern Hill University, Shillong (India) and College of Business and Public Affairs, (AACSB-accredited) Alabama A&M University, USA
Santi Gopal Maji	Paper presentation	16th International Conference on Business and Finance	29th February - 1st March, 2024	ICFAI Business School (IBS), Hyderabad (Offline)
Santi Gopal Maji	Session Chair	16th International Conference on Business and Finance	1st March, 2024	ICFAI Business School (IBS), Hyderabad (Offline)
Satish Chandra Tiwari	Session Chair	16th International Conference on Business and Finance	1.03.2024	ICFAI Business School (IBS), Hyderabad (Offline)

Satish Chandra Tiwari	Paper presentation	16th International Conference on Business and Finance	29th February - 1st March, 2024	ICFAI Business School (IBS), Hyderabad (Offline)
Satish Chandra Tiwari	Session Chair	IFAC-2023,IIM Jammu	08th-09th Sep, 2023	IIM Jammu
Farah Hussain	Paper Presentation	International Seminar on Net Zero & Energy Transition for Sustainable Development	17-18th, Feb, 2024	Department of Management Studies at Rajiv Gandhi Institute of Petroleum Technology, Amethi, Uttar Pradesh
Farah Hussain	Paper Presentation	International Seminar on Accounting, Finance, Business, And Social Sciences (ISAFBS'2023)	14-09-2023	Organised by Dept. of Business Administration ,Assam University, Silchar (India), Dept. of Management North Eastern Hill University, Shillong (India) and College of Business and Public Affairs, (AACSB-accredited) Alabama A&M University, USA
Farah Hussain	Paper Presentation	International Seminar on Accounting, Finance, Business, And Social Sciences (ISAFBS'2023)	14-09-2023	Organised by Dept. of Business Administration ,Assam University, Silchar (India), Dept. of Management North Eastern Hill University, Shillong (India) and College of Business and Public Affairs, (AACSB-accredited) Alabama A&M University, USA

Farah Hussain	Paper Presentation	International Finance and Accounting conference, IFAC 2023	8 - 9 September 2023	IIM Jammu
Farah Hussain	Paper Presentation	Research Symposium on Finance and Economic (RSFE) 2023	14-16 June 2023	IFMR Graduate School of Business, KREA University
Biswajit Ghose	Paper Presentation	International Finance and Accounting conference, IFAC 2023	8 - 9 September 2023	IIM Jammu
Biswajit Ghose	Paper Presentation (2 Papers)	International Seminar on Accounting, Finance, Business, And Social Sciences (ISAFBS'2023)	14-09-2023	Organised by Dept. of Business Administration ,Assam University, Silchar (India), Dept. of Management North Eastern Hill University, Shillong (India) and College of Business and Public Affairs, (AACSB-accredited) Alabama A&M University, USA
Biswajit Ghose	Paper Presentation (4 Papers)	International Seminar on "New era of Social Responsibility, Sustainability and Innovations"	4th - 6th March, 2024	Mizoram University
Dhritabrata Jyoti Bharadwaz	Paper Presentation	Exploring Sustainability through Diverse Perspectives	25th and 26th August, 2023	St. Kabir Institute of Professional Studies, Ahmedabad, Gujarat

Awards/Honours/Notable Achievements

Name of Awardee	Designation of Awardee (Faculty member/ Staff/ Research Scholar/ Student)	Achievement	Event/Awarded by
Santi Gopal Maji	Faculty Member	Research Fellow	Metharath University, Thailand
Prasenjit Roy	Faculty Member	Best Paper Award	Organised by Dept. of Business Administration ,Assam University, Silchar (India), Dept. of Management North Eastern Hill University, Shillong (India) and College of Business and Public Affairs, (AACSB-accredited) Alabama A&M University, USA
Farah Hussain	Faculty Member	Best Paper Award	Organised by Dept. of Business Administration ,Assam University, Silchar (India), Dept. of Management North Eastern Hill University, Shillong (India) and College of Business and Public Affairs, (AACSB-accredited) Alabama A&M University, USA
Biswajit Ghose	Faculty Member	Best Paper Award	IFAC 2023 organised by IIM Jammu for paper titled "The nexus between corporate sustainability performance and earnings management: Indian Evidence"
Biswajit Ghose	Faculty Member	Best Paper Award	ISAFBS 2023 organised by Assam University, Silchar in collaboration with Alabama University, USA and North-Eastern Hill University, Shillong for paper titled "Do conventional capital structure determinants explain firm's tendency to use intercorporate loans? Indian Evidence"
Biswajit Ghose	Faculty Member	Best Paper Award	ISAFBS 2023 organised by Assam University, Silchar in collaboration with Alabama University, USA and North-Eastern Hill University, Shillong for paper titled "Determinants of Accrual-based Earnings management: Empirical evidence from India"

Other Significant Activities of the Department/Centre

- Ice breaking session on 14th August 2024 for the newly admitted students of Integrated M. Com 1st Semester and M. Com 1st Semester in Autumn 2023.

- Drawing Competition on 14th August 2023 for the students of Kabilabad HS School, Napaam organized by the students of Department of Commerce.
- Plant Sapling plantation drive near the vicinity of Tezpur University by the students and faculties of Department of Commerce on 15th August 2023.
- Financial Literacy Awareness program for the Women for the nearby villages at Napaam M.V. School, Napaam, Tezpur.
- Women Sensitization Program and Sanitary Pad Distribution at Kabilabad HS School, Napaam organized by the students of Department of Commerce.
- One week (six days) workshop on “Structural Equation Modeling (SEM)” from 4th - 9th September 2023 for the faculties and research scholars.
- Industrial Trip to visit Dabur Plant at the Industrial Growth Center, Balipara on 7th February 2024 for the students of Integrated M. Com 5th Semester accompanied by Dr. Farah Hussain and Mr. Dhritabrata Jyoti Bharadwaz.
- Workshop on “Forensic Accounting Standards” organized on 17th February 2024. The event was coordinated by Dr. Reshma Tiwari Kumari.
- “Financial Literacy Week” organized in collaboration with the Reserve Bank of India, Guwahati on 27th February 2024. The event was coordinated by Mr. Dhritabrata Jyoti Bharadwaz.
- “Vaanigyam” (Department Fest) organized during 5th March 2024 to 8th March 2024. The event was coordinated by Dr. Prasenjit Roy and Dr. Biswajit Ghose.
- One week workshop on “Research Methodology and Report Writing” was organized from 5th February 2024 to 9th February 2024. Dr. Biswajit Ghose coordinated the event.

Number of Students Qualified in NET-JRF/SLET/GATE etc.

Name of Qualifying Examination	Number of Qualified Students	Academic Programme
UGC NET	1	Int. M. Com
SLET	2	M. Com and Int. M. Com

Notable Placement of Students

Name of Student	Academic Programme	Placement Designation	Company/ Organization	Type of Selection
Sanket Sharma	Int. M.Com	Tax Consultant I (USI)	Deloitte	Off Campus
Promila Chetri	Int. M.Com	Business Development Associate	Intellipaat	Off Campus
Sabina Anom Yasmin	Int. M.Com	Probationary Officer	Federal Bank	Off Campus
Abhisekh Debnath	Int. M.Com	Probationary Officer	Federal Bank	Off Campus
Prachurjya Sabhapandit	Int. M.Com	Probationary Officer	Federal Bank	Off Campus
Olivia Sur	M. Com	Probationary Officer	Federal Bank	Off Campus

Anuja Kar	M. Com	Probationary Officer	Federal Bank	Off Campus
Trideep Das	M. Com	E-Stamping Department	Stock Holding Corporation of India Ltd.	Off Campus

Enrollment of Students in other Institutes for Higher Studies

Name of Student	Academic Programme	Name of other Institute	Enrolled Academic Programme
Abhipsit Bapanasha	Int. M.Com	Delhi School of Economics, Delhi University	M. Com
Gourish Sabhapandit	Int. M.Com	PGDAV College, Delhi University	M. Com

CENTRE FOR DISASTER MANAGEMENT

Establishment: Established in 1997 Under the Central Sector Scheme on Natural Disaster Management Programme, Ministry of Agriculture and Cooperation, GoI mainly to conduct training programmes and workshops on Disaster Management for different target groups.

Funding and affiliation: Received funds from Ministry of Agriculture and Cooperation & Ministry of Home Affairs, GoI (up-to 2008).

During 2008 – 2011, the Centre received fund from the Ministry of Home Affairs, Government of India through National Institute of Disaster Management, New Delhi mainly in training and salary heads, as per agreement with NIDM, MHA, GoI.

At present the Centre is functioning as a Center under Tezpur University.

Manpower:

Assistant Professor: 1 (Centre does not have any more faculty or support staff)

Infrastructure:

Classroom : 1

Faculty room : 1

Office cum storeroom : 1

Major activities:

International conference: 1

Training and workshop: More than 75

Courses / programmes:

- DM101 (SEC on DM compulsory for old integrated M. Sc. Programmes in Spring Semester and B. Sc. B. Ed. Programmes in Autumn semester)
- DM302 (Open elective course on DM for UG and B. Tech. programmes)
- DM501 (Open Elective course on DM for PG and M. Tech. programmes)
- HIM302 (Risk and Disaster Management in Healthcare, offered by Department of Electronics and Communication Engineering during 2014 – 2016.)
- Started P. G. Diploma in Disaster and Environmental Management under CODL/CDOE in association with Department of Environmental Science, TU. This programme is renamed as Diploma in Disaster and Environmental Management.

Expert Committee meeting: Tezpur University in coordination with CDM had convened a meeting of river experts from IIT, Roorkee, IIT Guwahati, and other organisations in 2007 to explore the short and long-term protective measures of flood and bank line erosion of Jia Bharali river. CDM provided all relevant information pertaining to flood and erosion risk of Jia Bharali river for the period 1998 – 2007.

Book / Report / Publications:

Articles in research journals: 8

Case study report: 2 (*On Flood and Erosion Risk Assessment*)

Handbook: 2 (*Published by Tezpur University and State Resource Centre, Assam*)

Self-learning materials: Prepared for disaster management courses (DEM104 & DEM203) of PGDEM programme.

Membership: Tezpur University is a member of NIDM-IUINDRR (*India Universities and Institutions Network for Disaster Risk Reduction*). Dr. Dipak Nath, Assistant Professor, Centre for Disaster Management has been nominated by the University as Nodal Officer. NIDM, New Delhi shall prepare the strategy for collaborative activities amongst universities and institutions on DRR.

Coordination: Centre for Disaster Management has been coordinating with Department of Water Resources and other government agencies, through Tezpur University, to address the issues pertaining to mitigation of flood and erosion problems of Jia-Bharali River in the surrounding areas of Tezpur University. Flood and erosion problems could be mitigated significantly.

Academic support: CDM has been extending academic supports to DDMAAs (Assam) and other organisations in conducting trainings and workshops on Disaster Management for different target groups.

Tezpur University Intellectual Property Rights Cell

About the TUIPR Cell

Tezpur University Intellectual Property Rights Cell (TUIPR Cell) was established in 2009 with a vision to develop human resource in the management of Intellectual Property Rights as an integral part of the innovation process and the innovation value chain in the University. Several patent, copyright and industrial design applications have been filed based on the innovations done in Tezpur University. The Cell has been involved in several IPR awareness and implementation programmes in the University Campus and also across the North East region. The Cell is gradually building IPR consciousness in the Region, not only within the institutions but also among different strata in the society.

Academic Programmes and Student Intake

CBCT and VAC Courses	Intake
IP750: Intellectual Property Rights in Research and Beyond	15
IPVA250: Fundamentals of Intellectual Property Rights	20

Thrust Research Areas of the Department/Centre

- Geographical Indication

Major Facilities/Equipment available

- N/A

Faculty Members

Designation	Name	Highest Qualification (Institute)	Specialization	<email> @tezu.ernet.in	Since
DPIIT-IPR Chair Professor	Prof. Pritam Deb	Ph. D	Patent, PCT, GI and Trade Secret	pdeb@tezu.ernet.in	01 December, 2020

Staff Members

Designation	Name	<email> @tezu.ernet.in	Since
Research Assistant	Dr. Juri Borbora Saikia	juriipr@tezu.ernet.in	01 December 2020
Research Assistant	Dr. Koushik Saikia	koushik@tezu.ernet.in	11 January 2021
Office Assistant	Saurav Deka	office-ipr@tezu.ernet.in	29 April 2021

Publications by Faculty and Staff Members:

- Koushik Saikia, Pritam Deb, Intellectual properties derived in Space exploration: Issues and Scopes, Journal of Intellectual Property Rights, Vol 29, March 2024, pp 127-132.

<https://or.niscpr.res.in/index.php/JIPR/article/view/61/2746>

- b. TUIPR Cell published its second article in one of the reputed IPR journals of the country, namely, the "Journal of Intellectual Property Rights" in its recent volume on one of most relevant topics focussing on the spice sector of the state as "Crafting Market Opportunities through GIs: A Review on Spices of Northeast India" DOI: 10.56042/jipr.v29i4.252

<https://or.niscpr.res.in/index.php/JIPR/article/view/252/3095>

Publication of Patents

Inventor(s)	Patent Title	Application/Patent Number	Published/Granted	Country
Pritam Deb and Meenakshi Talukdar	Two dimensional heterostructure based composite films for food packaging	434517	Granted	India
Biswajit Gogoi and Debendra Chandra Baruah	Multifunctional Multiple Pot Solid Fueled Stove with Combustion Air Preheating and Flue Gas Heat Extraction	444178	Granted	India
Pritam Deb and Koushik Saikia	Magnetic secondary nanostructure as contrast agent for magnetic resonance imaging	460428	Granted	India
Iftak Hussain, Syed Ibtisam Tauhidi, Kamal Uddin Ahamad, Pabitra Nath	Smartphone Based System For Detection And Measurement Of Chemical And Biological Species In Liquids	515646	Granted	India
Nayan M. Kakoty, Lakhyajit Gohain	An EMG based Prosthetic Hand Controller for Real Time Grasping realizing Neuromuscular Constraint	524691	Granted	India

Dilip Dutta, Arpeeta Saikia, Zahnupriya Kalita and Sudipta Saikia	A Saddle System For Female Bicycles Adapted To Counter Forward Slip Of Rider On Saddle Surface During Sudden Braking	478941	Granted	India
Dilip Dutta, SudiptaSaikia, Zahnupriya Kalita and Arpeeta Saikia	System for enhancing stability of bicycle by steering-back handlebar automatically	535873	Granted	India
Pabitra Nath and Diganta Rabha	Methods and apparatus of multi-modal microscopic imaging on a smartphone and OLED display illumination.	523469	Granted	India
Arindom Sharma, Subhankar Chakraborty and Santanu Sharma	Detection of egg albumin	202331012154	Published	India
Partha Pratim Sahu, Subham Verma, Satyajit Das, Bidhisha Saha, Sanjeev Karmakar and Pranobesh Chattopadhyay	Black fungus detection kit based on interdigital planer paper capacitance	202331007131	Published	India
Pabitra Nath and Diganta Rabha	Methods and apparatus of multi-modal microscopic imaging on a smartphone and OLED display illumination	202231030989	Published	India
Partha Pratim Sahu and Biswadeep Roy	A system for rapid onsite measurement of cysteine content in test sample	202331006389	Published	India
Nidhi S. Bhattacharya, Bidhan Ch. Das, Abhilash Gayan and	Smart Portable Dheki	202331000063	Published	India

Pranjit Kr. Baishya				
Dhanapati Deka and Doljit Borah	STAMP (Stacked Tray Modular Photobioreactor)	202231069759	Published	India
Niranjan Karak and Samiran Morang	Microwave Self-Healable And Melt Reprocessable Environmentally Benign, Organic Solvent-Free, And Surfactant-Free Waterborne Polyurethane/Acrylic Dispersions	202231066854	Published	India
Priyam Kumar Das, Durlav Sonowal and Debendra Chandra Baruah	Online biogas plant diagnostic, forecasting and management system	202231058974	Published	India
Nandan sit, Nipona Shill, Nurin Afzia, Bhaskar Jyoti Kalita	Process for immobilization of pectinase on chitin support using ultrasound	202231043102	Published	India
Pritam Deb, Meenakshi Talukdar and Sudhansu Shekhar Sahoo	Biodegradable heat shrinking film for cylinder gas cap and bottle lid sealing	202231042538	Published	India
Robin Kumar Dutta and Rituparna Saikia	Value-added cattle urine as liquid fertilizer	202231042165	Published	India
Ankita Das, Bihung Muchahary, Aniket Raj, Manish Kumar, Firdausa Ahmed, Chiranjit	IoT Based Portable Ventilator	202131045925	Published	India

Adhikary and Soumik Roy				
Partha Pratim Sahu, Geetarth Sarma and Biswajit Kakoty	Paper capacitive sensor based novel corona virus detection kit	202231009453	Published	India
Pabitra Nath, Diganta Rabha and Diganta Hatiboruah	A smartphone based analytical system	202131060631	Published	India
Rajib Biswas, Pritam Deb, Nirmal Mazumder and Soumyabrata Banik	Development of multimodal optofluidic system for sensing heavy metal ions	202131041315	Published	India
Pritam Deb, Monika Sharma and Nitumoni Konwar	Remote controlled device for collection of oil from the oil spill on land	202131055185	Published	India
Pritam Deb, Monika Sharma and Manas Pratim Chetry	Device for sensing and collection of Oil spill on water bodies	202131054965	Published	India

Invited Talk

Name of Faculty Member	Title of the Talk	Title of the Event	Date	Organizer and Venue
Prof. P. Deb	Preview on IPR	IPR Awareness programme	24-04-2023	National Institute of Design, Jorhat
Prof. P. Deb	Intellectual Property Rights in context of Sustainable Development	IPR Awareness programme	28-04-2023	Mangaldai College, Mangaldai
Prof. P. Deb	Intellectual Property Rights	WBNUJS IP Day	29-04-2023 to 30-04-2023	WBNUJS, Kolkata

Dr. Juri B. Saikia and Dr. Koushik Saikia	Effective use of GIs for SMEs Effective use of Trademark for SMEs	MSME Day-2023	27-06-2023	Technology Enabling Centre, Tezpur University
Prof. P. Deb	IPR and Economic Development	National workshop on Roles of association in Geographical Indication: Protection and Promotion	04-12-2023	West Bengal National University of Juridical Sciences (WBNUJS), Kolkata
Prof. P. Deb	IPR and Technology Transfer	National Workshop on Intellectual Property Rights, Academic Ethics, and Innovation for Entrepreneurship Development (NWIPR-2023)	06-11-2023	Handique Girls' College, Guwahati
Prof. P. Deb	Protect your creation with a Strategy	Evening talk at Incubation Centre	11-12-2023	Manipal Academy of Higher Education (MAHE), Mangalore
Prof. P. Deb	IPR and Economic Development	Week-long Online Faculty Development programme (FDP) on Intellectual Property Rights (IPR)	18-12-2023 to 22-12-2023	Birangana Sati Sadhani Rajyik Viswavidyalaya, Golaghat
Prof. P. Deb	IPR and Technology Transfer	North-East Tech Conclave	28-03-2024	DST-TEC, Rajiv Gandhi University, Arunachal Pradesh

Workshops

1. World IP Day on 26th April 2023.
2. Colloquium on Celebrating Women in Innovation and Creativity on 8th March 2024 at Tezpur University in collaboration with Centre for Women Studies, Tezpur University.
3. Skill, Entrepreneurship, Startup, and Innovation (SESIPS) during 6th to 10th November 2023 at Tezpur University in collaboration with Technology Enabling Centre, Tezpur University.
4. 31st National Conference, Condensed Matter Days, CMDAYS 2023 during 22 - 24 January 2024 in collaboration with Department of Physics, Tezpur University. As a part of the programme an Innovation exhibition was organized on 23rd January 2024.

Certificate Course

1. A five-day certificate course on prior art search and patent specification drafting was jointly organized by Tezpur University DPIIT IPR Chair in collaboration with the DPIIT-IPR Chair, Gujarat National Law University, Gujarat from 26th February to 1st March 2024.

Extension/Outreach Activities

1. One Day Workshop on Intellectual Property Rights for Safeguarding Cultural Heritage and related Innovations at Majuli College, Majuli on 21st September 2023 in collaboration with IQAC Majuli College, Majuli, Assam
2. One day workshop on Folk Medicine, Traditional Knowledge and IPRs at Majuli on 22nd September, 2023 in collaboration with Luko Ushadhi Chikitcha Sewa Ashram

Webinars

1. National Webinar of Copyright and the Protection of expression in the Media and Entertainment Industry on 10th June 2023 in collaboration with DPIIT IPR Chairs of Tezpur University, WBNUJS, NLSIU, GNLU and IIT Roorkee.

Other activities

1. DPIIT IPR Chair of Tezpur University facilitated a GI application on Moran Ginger on 10/05/2023 with application no. 1081. The status of the application is under Pre-examination state.
2. Facilitated Aim Printers, Guwahati to file for their Trademark registration under class 35 with appl. no. 5961016 and class 40 with appl. no. 5961018
3. **GI application on Kolakhar:** DPIIT IPR Chair, Tezpur University has facilitated a GI application on an ethnic food item of Assam, 'Kolakhar'.
4. DPIIT IPR Chair, Tezpur University has provided technical support to Manipal Academy of Higher Education (MAHE), Mangalore in developing their institutional IPR Policy.
5. DPIIT IPR Chair, Tezpur University provided technical assistance in developing the Tezpur University Policy for maintenance of Digital Archive of Tezpur University.
6. DPIIT IPR Chair, Tezpur University provided technical assistance in developing the Tezpur University Technology Transfer Policy.

School of Sciences

Report of the Dean, School of Sciences

Department of Environmental Science

Department of Mathematical Sciences

Department of Molecular Biology and Biotechnology

Department of Physics

Department of Chemistry

REPORT OF THE DEAN, SCHOOL OF SCIENCES

About the School

The School of Sciences (SoS) comprises of five academic departments:

- Chemical Sciences
- Environmental Science
- Mathematical Sciences
- Molecular Biology and Biotechnology
- Physics.

All the departments under the SoS are DST-FIST and UGC-SAP supported. Here we report only the activities of the SoS which are not included in the reports of the departments.

Officers and Staff Members

Designation	Name	<email>@tezu.ernet.in	Date of holding the current position
<i>Dean</i>	Prof. Robin Kumar Dutta	robind	01-12-2023
<i>MTS (P/T)</i>	Mohendra Das	mohen31	09-09-2019

The present Dean of the SoS, Prof. Robin Kumar Dutta, assumed his office in the place of his predecessor, Prof. Debajit Hazarika, on 1 December 2023.

Activities of the Dean's Office:

A meeting of the School Board of the SoS, Chaired by Prof. Debajit Hazarika, was held on 16 May 2023. The agenda included mainly discussion on academic program structures and syllabi for FYUGP of NEP of different departments. Other items of the agenda were proposals of a new Department of Statistics and changing the Integrated B.Sc.B.Ed. (major) programs to general B.Sc.B.Ed. program (without major). All proposals were submitted to the Academic Council for consideration.

An introductory meeting of the new Dean with all Heads of the Departments of SoS was held on 7 December 2023 at the Conference Hall of the Department of Chemical Sciences where the conduct of examinations, maintenance of analytical instruments, etc., were discussed. Subsequently, another meeting of all faculty members of the School of Sciences was held on 16 January at the Seminar Hall of the Department of Environmental Science where the issues related to examinations and research facilities were discussed.

Two formal School Board meetings of SoS were held on 13 May 2024 and 29 July 2024. The minutes of the meetings were as follows:

Conduct of Examinations of the School:

An Examination Conduct Committee was constituted for the year with the following members:

1.	Dr. Thiyam Ramsing Singh, Associate Professor	Department of MBBT	Coordinator
2.	Dr. Debajit Kalita Assistant Professor	Department of Mathematical Sciences	Join-Coordinator
3.	Dr. Pratibha Deka, Assistant Professor	Department of Environmental Science	Member
4.	Dr. Nayanmoni Gogoi Assistant Professor Dr. Mohini Mohan Konai Assistant Professor	Department of Chemical Science	Member
5.	Dr. Jyoti P. Saikia, Assistant professor	Department of MBBT	Member
6.	Dr. Biswajit Das Assistant Professor	Department of Mathematical Sciences	Member
7.	Dr. Moon moon Devi Assistant Professor Dr. Diana Thongjaomayum Assistant Professor	Department of Physics	Member
8.	Dr. Pratima Pillai Assistant Professor	Department of Education	(Co-opted) Member

The Committee smoothly conducted all the examinations.

Students' inSCIgnis Program:

InSCIgnis 2023, the tenth edition of the annual science festival organized by the Students' Science Council under the aegis of the School of Sciences was held during 28th February - 1st March coinciding with the National Science Day. The theme for InSCIgnis 2023 was "Unraveling the mysteries of the universe" and the event was participated by several luminaries and resource persons as well as many student participants from TU and outside TU. Prof. G. Parthasarathy, an eminent earth Scientist from NIAS Bangalore, was the Chief Guest and Prof. Arup Mishra, Chairman of Assam Pollution Board was the Guest of Honor. Prof. Shambhu Nath Singh, the Vice-chancellor, Tezpur University presided the inaugural session held at the Council Hall, TU. All the five academic departments organized National Seminar/symposium during the event. A very interesting and successful Panel Discussion on "Sustainable Village" was held at the Seminar hall of the Department of Environmental Science with Sri Kamison Mili, a social worker from a nearby village, as the lead speaker. The ninth edition of Anunaad, the bi-lingual annual science magazine of the Students' Science Council was also released at the same time.

DEPARTMENT OF ENVIRONMENTAL SCIENCE

About the Department

Initially established as a Centre for Environmental Science in 2003, the Centre was converted to the Department of Environmental Science in 2004, with the objective of imparting education on regional and global environmental issues. The curriculum for the MSc Programme focuses on all important aspects of Environmental Science covering contemporary problems of natural resource conservation and environmental quality. Areas of research includes, Atmospheric processes, Environmental pollution, Aquatic toxicology, Greenhouse gas emission, Riverine hazards, Hydrogeochemistry, Geomorphology, Vulnerability & adaption, Natural hazards, Climate change and its impacts on agroecosystem and forest ecosystem, Plant-insect interactions, Nanotechnology in environmental research, Waste management, Vermicomposting, Pollution remediation, Ecosystem dynamics, Biodiversity conservation, and Atmospheric system modeling. The Department is a recipient of grant under UGC-SAP and DST-FIST.

Academic Programmes and Student Intake

Academic Programme	Student Intake
MSc in Environmental Science	38
PhD in Environmental Science	Variable

Thrust Research Areas of the Department/Centre

- Environmental Assessment and Modelling
- Biodiversity and hydro-geomorphic studies
- Climate change dynamics, sustainable agriculture, and vulnerability assessment

Major Facilities/Equipment available

- Inductively Coupled Plasma Mass Spectrophotometer (ICP-MS)
- Carbon Hydrogen Nitrogen and Sulphur Analyzer (CHNS)
- High-performance Liquid Chromatography (HPLC)
- Ion Chromatography (IC)
- High Performance Computing Systems (HPC)
- Gas Chromatography–Mass Spectrometry (GC-MS)

Some of the other instruments available in the laboratories of the department includes Laser Leaf Area Meter with Root Measurement Attachment, Portable Photosynthesis Systems, Gas Chromatograph, TOC Analyzer, ELISA Reader, Aquaculture facility, Continuous Air Pollution Monitoring Station, UV- Visible Spectrophotometer, Ion meter, Repairable dust sampler with gaseous sampling attachment, High Speed Refrigerated Centrifuge, Sartorius RO System, Sartorius Ultra-Pure Water Purification

System, HOBO Pro V2 Tea/RH data logger, Flame Photometer, Electrophoresis gel unit and Fluorescence Microscope with Camera & Software. Department also have GIS laboratory facilitate with Arc GIS Master Lab Kit and ERDAS Software and plant culture house.

Faculty Members

Designation	Name	Highest Qualification (Institute)	Specialization	email	Date holding of the current position
	Raza Rafiqul Hoque	Ph. D. (JNU, New Delhi)	Atmospheric Chemistry, Pollution Monitoring and Assessment	rrh	24/09/2013
	Apurba Kumar Das	Ph. D. (JNU, New Delhi)	Geomorphology, Regional Climate	apurba	25/08/2016
	Ashalata Devi	Ph. D. (NEHU, Shillong)	Forest ecology and biodiversity conservation	kh_asha	06/01/2020
	Kasi Marimuthu	Ph.D, (MSU, Tamilnadu)	Environmental Biotechnology/ Aquatic toxicology	kmmuthu	21 September 2022
	Nirmali Gogoi	Ph. D. (Dibrugarh University)	Environmental Physiology of Plants (Stress Physiology); Greenhouse Gas Emission and Carbon Sequestration from Agro-Ecosystem and Forest Ecosystem	nirmali	31/03/2021
	Satya Sundar Bhattacharya	Ph.D. (Visva-Bharati)	Solid waste recycling; vermicomposting; soil health; organic agriculture; nanomaterials in environment	satya72	01/09/2022

<i>Assistant Professor</i>	Sumi Handique	Ph. D. (Tezpur University)	Water and Sediment geochemistry, aquatic and soil microplastic pollution	sumiha n	06/10/2010
	Amit Prakash	Ph. D. (JNU, New Delhi)	Environmental System Modelling; Machine learning applications in Environmental Systems; Non-stationary Stochastic Models; Neuro-fuzzy Systems	ap	17/04/2013
	Nayanmoni Gogoi	Ph. D. (IIT Guwahati)	Ecohydrology, Ecosystem Functions, Nanomaterials in Environmental Applications	nayanmoni	23/01/2017
	Santa Kalita	Ph. D. (Gauhati University)	Entomology, Insect ecology, Plant- Insect interface, Pollution biology and health	santa	03/03/2017
	Pratibha Deka	Ph. D. (Tezpur University)	Air pollution, Human-Environment interaction	pratibha	21/08/2017
	Nazrin Ullah	Ph.D. (NIT, Silchar)	Flood modeling, Flood forecasting, ANFIS, ARIMA Modeling, Water Pollution	nazrin	14/08/2019 (Renewed periodically)
	Madhumita Ghosh Datta	Ph.D. (Tezpur University)	Rice ecosystems, soil science, solid waste management and	mghosh	12/02/2020 (Renewed periodically)

			biodiversity		
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Officers and Staff Members

Designation	Name	<email>@tezu.ernet.in	Date of holding the current position
S.T.A.	Pranjol Goswami	pranjol	16/10/2010
T.A.	Jayanta Bora	jborain	10/10/2010
U.D.C.	Anup Dutta	dutta12	2020
M.T.S.	Ranjit Bora	ranjit2	2000

Major Research and Development Findings

Faculty/Researcher	Salient Research Findings
Ashalata Devi	<ol style="list-style-type: none"> 1. <i>Dischidia acutifolia</i> Maingay ex Hook.f., has been reported in Assam, making it a new addition to the list of plant species found in India. This species is native to the region extending from Indo-China to New Guinea. 2. The endangered species <i>Sapria himalayana</i> Griffith (Rafflesiaceae), a poorly understood root parasitic angiosperm, was reported as a new distribution record from the Machi community forest of Tengnoupal district, Manipur. The species was found at two different sites, and the knowledge associated about the species was shared by the local people. 3. The presence of heavy metals in the top layer of soil in natural forests strongly influenced the physiological functions of herbaceous species, resulting in a significant reduction in their productivity. Among the metals, Pb and Cd were highly contaminating with significant implications on productivity.
Satya Sundar Bhattacharya	Dr. Bhattacharya has pioneering contributions in (i) revealing novel pathways of heavy metal detoxification by earthworms; (ii) developing microbial formulations and vermitechnology for transforming solid wastes as potential components of organic- centric agriculture; (iii) developing ecofriendly nanofertilizers; and (iv) revealing how soil attributes regulate medicinally valuable plant metabolites and their genes
Prof. Raza R Hoque	<ol style="list-style-type: none"> (1) In a pioneering study of the O₃-NO_x photostationary state (<i>PS</i>) in the ambient air of Brahmaputra Valley was studied and it was found that the <i>net</i> O₃ concentration deviated substantially from the <i>PS</i> during the winter months, which was attributed to local biomass burning, biogenic VOC emission from forest and agriculture, and long-range transport of peroxyacyl nitrate (PAN). The HYSPLIT model application and concentration-weighted trajectory (CWT) analyses of O₃ ascertained contribution of long-range pollutants in the O₃ chemistry of the region. (2) In a successful attempt bioaccumulation of metals by <i>Atrichum angustatum</i>, which is a readily available moss species in the Brahmaputra valley, was studied. The study led to the conclusion that <i>A. angustatum</i> can serve as a potential biomonitor for metallic pollutants.

Prof. A.K. Das	<p>A pioneering study “Feasibility of ERA5 ECWMF Reanalysis Data for Estimation of PM10 Surface Concentration Over a Complex Terrain” attempted to overcome challenges in PM10 surface concentration estimation imposed by sparse ground-based observations over the complex terrain of Brahmaputra Valley (BV)-</p> <p>Estimated PM10 using a Multiple Linear Regression Model (MLRM) assimilating planetary boundary layer height (PBLH), meteorological variables [air temperature (AT), relative humidity (RH), wind speed (WS)], and AOD 500 nm for Dibrugarh, a microcosm site of the BV. Determined the PBLH from radiosonde observations using the vertical gradient of eight fundamental atmospheric fields, and analyzed the PM10-meteorology, PM10-PBLH, and PM10-AOD 500 nm relations.</p>
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Research Projects (both Ongoing and New)

Project Title	Funding Agency	Amount (in INR)	Duration	Investigator(s)
Climate Change Impacts and Adaptation for a Climate Resilient Northeast India	DST's Centre of Excellence	6,35,65,808	2020-2025	Ashalata Devi (PI) Co-PI(s): D.C. Baruah, R R Hoque, A.K. Das, N. Gogoi, S. Handique, A. Prakash
Climate Change Action Programme (CCAP) scheme Long Term Ecological Observation project (LTEO) - India Three projects 1. Monitoring forest structure and dynamics in relation to climate change across different biogeographic zones of India 2. Long-term monitoring of biodiversity and ecosystem processes in Indian grasslands 3. Long-term monitoring of soil processes in forests and grasslands.	MoEF and CC	45,00,000	2020-2025	Ashalata Devi (Co-PI)
Harnessing Endophytes and Arbuscular Mycorrhizal Fungi from Citrus microbiome for plant and soil health Management in North East India	DBT	20,82,120	2021-24	Nirmali Gogoi (PI)

Rapid in-situ conversion of urban solid wastesto valuable manure by vermicompost derived microbial consortia: Insights on earthworm gut aided microbial detoxification mechanism of metals, pesticide, and pharmaceuticalresidues	SERB	43,00,000	2022-2025	Satya Sundar Bhattacharya (PI) and Nayanmoni Gogoi (Co-PI)
Exploiting chemical ecology for IPM: Deciphering the phyto-semiochemicals involved in Insect-Plant interactions of major crop pests of North East Region-India	DBT	54,92,820	2021-2024	Santa Kalita(Co-PI)
Study of shifting cultivation and associated problems in Meghalaya: physicochemical and geospatial approach	DST-SERB	35, 49,620	2020-2024	Dr. Pratibha Deka (PI)
Microplastic distributions in soils under different land use in Sonitpur district in the Brahmaputra Catchment	SERB-CRG PROJECT	28,00,000	2023-2026	Dr. Sumi Handique (PI)

Publications by Faculty and Staff Members

Publication of Articles in UGC-CARE Listed Group I/Group II Journals

- Aminur Rahman, M., Mojumdar, S., Asif Rahman, S., & Marimuthu, K. (2023). Plastic pollutions in the ocean: their sources, causes, effects and control measures. *Journal of Biological Studies*, 6(1 SE-Articles): 37–52. <https://doi.org/10.62400/jbs.v6i1.7755>
- Baidya, S., & Devi, A. (2024). Perceptions and linkage of indigenous community in conservation of sacred natural sites in Assam, Northeast India. *Indian Journal of Traditional Knowledge*, 23(4): 316–323. <https://doi.org/10.56042/ijtk.v23i4.199>
- Baidya, S., Sumant, S., Bhuyan, A., Hazarika, N. J., Thakur, B., Gogoi, N., ... Devi, A. (2024). Tree Population Structure and Carbon Stock of Tropical Wet Evergreen Forest in Dehing Patkai National Park, Assam, Northeast India. *International Journal of Ecology and Environmental Sciences*, 50(2 SE-Articles): 303–313. <https://doi.org/10.55863/ijees.2024.3296>
- Banerjee, S., Gupta, N., Pramanik, K., Gope, M., GhoshThakur, R., Karmakar, A., ... Balachandran, S. (2024). Microbes and microbial strategies in carcinogenic polycyclic aromatic hydrocarbons remediation: a systematic review. *Environmental Science and Pollution Research*, 31(2): 1811–1840. <https://doi.org/10.1007/s11356-023-31140-0>
- Baruah, N., & Gogoi, N. (2023). Contrasting impact of soil amendments on bioavailability, mobility and speciation of zinc in an acidic sandy loam soil. *South African Journal of Botany*, 154: 309–318. <https://doi.org/https://doi.org/10.1016/j.sajb.2023.01.043>

- Borah, P., Gogoi, N., Asad, S. A., Rabha, A. J., & Farooq, M. (2023). An Insight into Plant Growth-Promoting Rhizobacteria-Mediated Mitigation of Stresses in Plant. *Journal of Plant Growth Regulation*, 42(5): 3229–3256. <https://doi.org/10.1007/s00344-022-10787-y>
- Borah, P., Gogoi, N., & Mahanta, S. P. (2023). Seasonal Variation in Carbon Mineralization Kinetics, Microbial Biomass Carbon and Enzyme Activities in the Soils of Three Natural Ecosystems of Kaziranga National Park, Assam, North East India. *Journal of Soil Science and Plant Nutrition*, 23(4): 5300–5311. <https://doi.org/10.1007/s42729-023-01402-4>
- Charan, K., Bhattacharyya, P., & Bhattacharya, S. S. (2024). Vermitechnology transforms hazardous red mud into benign organic input for agriculture: Insights on earthworm-microbe interaction, metal removal, and soil-crop improvement. *Journal of Environmental Management*, 354: 120320. <https://doi.org/10.1016/j.jenvman.2024.120320>
- Chetry, A., Thakur, B., Chase, T., & Kalita, S. (2024). HUNTSMAN SPIDER AS A NATURAL CONTROL FOR CRICKETS WITH ADDED REPORT OF PREDATION ON MOLE CRICKET FROM NORTHEAST , INDIA. *CIBTech Journal of Zoology*, 13: 116–123.
- Chowdhury, R., Barman, S., Choudhury, M., Kim, K.-H., & Bhattacharya, S. S. (2024). Earthworm modifies microbial community and functional genes for lignocellulosic waste valorization: Isolating plant-growth-promoting bacteria via next generation sequencing. *International Biodeterioration & Biodegradation*, 193: 105854. <https://doi.org/10.1016/j.ibiod.2024.105854>
- Chowdhury, R., Hussain, N., Mukherjee, S., Barman, S., Mandal, H., Raul, P. K., & Bhattacharya, S. S. (2024). Bioethanol Production from Lignocellulosic Waste Without Pre-treatment Employing Vermicompost and Earthworm Gut-isolated Bacteria: Insights on Waste to Wealth Conversion Efficiency Towards Cleaner Lifestyle. *Waste and Biomass Valorization*, 15(9): 5573–5587. <https://doi.org/10.1007/s12649-024-02548-7>
- Das, P., Pegu, R., Bhattacharya, S. S., & Nath, P. (2023). Fluorescence-Based Accurate Estimation of Chlorophyll in Tea Leaves Using Smartphone. *IEEE Sensors Journal*, 23(13): 14864–14871. <https://doi.org/10.1109/JSEN.2023.3275879>
- Das, S., Priyadarshani, N., Basak, P., Maitra, P., Bhattacharya, S., & Bhattacharya, S. S. (2023). Capsaicin derived from endemic chili landraces combats Shigella pathogen: Insights on intracellular inhibition mechanism. *Microbial Pathogenesis*, 181: 106210. <https://doi.org/https://doi.org/10.1016/j.micpath.2023.106210>
- Deb Burman, P. K., A.G., P., Chakraborty, S., Tiwari, Y. K., Sarma, D., & Gogoi, N. (2024). Simulating the ecosystem-atmosphere carbon, water and energy fluxes at a subtropical Indian forest using an ecosystem model. *Ecological Modelling*, 490: 110637. <https://doi.org/10.1016/j.ecolmodel.2024.110637>
- Deka, J., Sarma, K. P., Gupta, N., Ahmed, M. S., Mazumder, M. A. J., & Hoque, R. R. (2023). Polycyclic aromatic hydrocarbons in groundwater of oil-rich regions of upper

- Brahmaputra Valley, India: linkages of colloidal transport. *Arabian Journal of Geosciences*, 16(1): 66. <https://doi.org/10.1007/s12517-022-11158-3>
- Devi, J., Mandal, H., Das, S., Gogoi, N., Chattopadhyay, P., & Bhattacharya, S. S. (2023). Polycyclic aromatic hydrocarbon (PAH) remediation during vermicomposting and composting: Mechanistic insights through PAH-budgeting. *Environmental Science and Pollution Research*, 30(48): 105202–105219. <https://doi.org/10.1007/s11356-023-29705-0>
 - Devi, J., Pegu, R., Mondal, H., Roy, R., & Sundar Bhattacharya, S. (2023). Earthworm stocking density regulates microbial community structure and fatty acid profiles during vermicomposting of lignocellulosic waste: Unraveling the microbe-metal and mineralization-humification interactions. *Bioresource Technology*, 367: 128305. <https://doi.org/https://doi.org/10.1016/j.biortech.2022.128305>
 - Devi, M. B., & Devi, A. (2024). Estimation of phytochemical constituents and antioxidant potential of underutilized ethnobotanically important wild edible fruits of Manipur. *Indian Journal of Traditional Knowledge*, 23(5), 478–488. <https://doi.org/10.56042/ijtk.v23i5.11041>
 - Dey, S., Krishna, G., Ahmed, M. F., Lahkar, D., Begum, R., Devi, A., ... Das, A. (2023). *Dischidia acutifolia* Maingay ex Hook.f. (Apocynaceae: Asclepiadoideae): An addition to the flora of India and with comments on its typification. *Nelumbo*, 65(1 SE-Articles): 186–188. <https://doi.org/10.20324/nelumbo/v65/2023/173055>
 - Dutta, W., Misra, D., Chowdhury, P., Galarza Prieto, J. C., Das, S., Marimuthu, K., & Ray, P. (2023). The mycobiota associated with the weed water hyacinth *Pontederia crassipes* in Kolkata, India, with emphasis on biological control of the macrophyte. *Biocontrol Science and Technology*, 33(4): 344–365. <https://doi.org/10.1080/09583157.2023.2191298>
 - Goswami, L., Ekblad, A., Choudhury, R., & Bhattacharya, S. S. (2024). Vermicomposted Tea Industry Coal Ash efficiently substitutes chemical fertilization for growth and yield of cabbage (*Brassica oleracea* var. capitata) in an alluvial soil: A field-based study on soil quality, nutrient translocation, and metal-risk remediation. *Science of The Total Environment*, 907: 168088. <https://doi.org/https://doi.org/10.1016/j.scitotenv.2023.168088>
 - Goswami, P., Prakash, M., Ranjan, R. K., & Prakash, A. (2023). A Hybrid Deep Learning Model for Multi-step Ahead Prediction of PM_{2.5} Concentration Across India. *Environmental Modeling & Assessment*, 28(5): 803–816. <https://doi.org/10.1007/s10666-023-09902-4>
 - Handique, S., Saha, A., Saikia, K. K., & Gogoi, N. (2023). Agriculture Wastes. In *Agriculture Waste Management and Bioresource*, 78–10. <https://doi.org/10.1002/9781119808428.ch4>
 - Kamaraj, C., Vimal, S., Ragavendran, C., Priyadharsan, A., Marimuthu, K., & Malafaia, G. (2023). Traditionally used medicinal plants mediate the biosynthesis of silver nanoparticles: methodological, larvicidal, and ecotoxicological approach. *Science of The Total Environment*, 873: 162402. <https://doi.org/10.1016/j.scitotenv.2023.162402>

- Lahon, J., & Handique, S. (2023). Impact of flooding on microplastic abundance and distribution in freshwater environment: a review. *Environmental Science and Pollution Research*, 30(56): 118175–118191. <https://doi.org/10.1007/s11356-023-30819-8>
- Mondal, S. C., Gogoi, N., & Nath, D. (2024). Combating Drought Stress Anomalies in Grain Quality of *Phaseolus vulgaris*: Role of Soil Amendments. *Communications in Soil Science and Plant Analysis*, 55(8): 1105–1119. <https://doi.org/10.1080/00103624.2023.2295278>
- Mushahary, R., Nath, A., Chutia, S., & Deka, P. (2024). A systematic review on phytoremediation of indoor air pollution. *Journal of Air Pollution and Health*, 9(2 SE-Review Article(s)). <https://doi.org/10.18502/japh.v9i2.15928>
- Nath, A., Baruah, N., Nonglait, M. L., & Deka, P. (2023). Biological contaminants in indoor environments of educational institutions. *Aerobiologia*, 39(1): 1–20. <https://doi.org/10.1007/s10453-022-09771-6>
- Nath, A., Paul, B., & Deka, P. (2024). Chemical characterization of road dust during diwali festival in Guwahati city of Assam, Northeast India. *Environmental Monitoring and Assessment*, 196(5): 484. <https://doi.org/10.1007/s10661-024-12628-9>
- Naveenkumar, S., Kamaraj, C., Ragavendran, C., Vaithiyalingam, M., Sugumar, V., & Marimuthu, K. (2023). *Gracilaria corticata* red seaweed mediate biosynthesis of silver nanoparticles: larvicidal, neurotoxicity, molecular docking analysis, and ecofriendly approach. *Biomass Conversion and Biorefinery*. <https://doi.org/10.1007/s13399-023-04026-x>
- Nayan Jyoti Hazarika, Anubhav Bhuyan, Shilpa Baidya, Parashmoni Borah, Dipshikha Singha, Bijay Thakur, Sweeta Sumant, Nirmali Gogoi, Amit Prakash, *Ashalata Devi. (2023). Study on Abundance and Diversity of Butterflies At Dehing Patkai National Park in North-East India: a Seasonal Approach. *CIBTech Journal of Zoology*, 12(November), 3883.
- Nonglait, M. L., Khundrakpam, N., & Deka, P. (2024). Farmers' Income and the Driving Forces for the Switch from Shifting Cultivation to Settled Agriculture in Meghalaya, India. *Caraka Tani: Journal of Sustainable Agriculture*; Vol 39, No 1 (2024): AprilDO - 10.20961/Carakatani.V39i1.76129 . Retrieved from <https://jurnal.uns.ac.id/carakatani/article/view/76129>
- Parbo, D., Kumar, A., Devi, A., Sethy, J., Roamer Zest, Y., & Basnett, R. (2024). Diversity of Fig species and their ecological services in Pakke Wildlife Sanctuary, Arunachal Pradesh, India . *Journal of Wildlife and Biodiversity*, 8(2 SE-Original Article): 55–80. <https://doi.org/10.5281/zenodo.10938700>
- Paul, B., & Das, A. K. (2024). Exploring the Feasibility of ERA5 ECWMF Reanalysis Data for Estimation of PM10 Surface Concentration Over a Complex Terrain. *Journal of the Indian Society of Remote Sensing*, 52(7): 1579–1588. <https://doi.org/10.1007/s12524-024-01894-2>
- Paul, S., Pegu, R., Das, S., Kim, K.-H., & Bhattacharya, S. S. (2023). Eco-geological consequences of textile processing wastes: Risk assessment, elemental dissolution kinetics, and health hazard potential. *Environmental Research*, 216: 114693. <https://doi.org/https://doi.org/10.1016/j.envres.2022.114693>

- Pegu, R., Paul, S., Bhattacharyya, P., Prakash, A., & Bhattacharya, S. S. (2023). Exorbitant signatures of pesticides and pharmaceuticals in municipal solid wastes (MSWs): Novel insights through risk analysis, dissolution dynamics, and model-based source identification. *Science of The Total Environment*, 900: 165855. <https://doi.org/10.1016/j.scitotenv.2023.165855>
- Pegu, R., Prakash, A., Borah, P., Paul, S., & Bhattacharya, S. S. (2024). Unveiling the earthworm-associated preferential remediation of emerging organic pollutants and heavy metals in MSW-based vermicomposting systems: Insights through the lens of multivariate techniques and novel empirical models. *Chemosphere*, 363: 142782. <https://doi.org/10.1016/j.chemosphere.2024.142782>
- Saha, P., & Handique, S. (2023). Chapter 26 - A review on municipal solid wastes and their associated problems and solutions (waste-to-energy recovery and nano-treatment) with special reference to India (P. Singh, P. Verma, R. Singh, A. Ahamad, & A. C. S. B. T.-W. M. and R. R. in the D. W. Batalhão, eds.). <https://doi.org/10.1016/B978-0-323-90463-6.00004-X>
- Saha, P., Kumar Saikia, K., Kumar, M., & Handique, S. (2023). Assessment of health risk and pollution load for heavy and toxic metal contamination from leachate in soil and groundwater in the vicinity of dumping site in Mid-Brahmaputra Valley, India. *Total Environment Research Themes*, 8: 100076. <https://doi.org/10.1016/j.totert.2023.100076>
- Sharma, B., Handique, S., & Jyethi, D. S. (2023). Elemental composition of rural household dust in Brahmaputra fluvial plain: insights from SEM-EDS, receptor model, and risk assessment. *Environmental Geochemistry and Health*, 45(5): 2447–2460. <https://doi.org/10.1007/s10653-022-01361-2>
- Sharma, R., Mina, U., Devi, A., & Kumar, B. M. (2024). Do homegardens act as agent of agrobiodiversity conservation: a case study of homegardens of diverse socio-ecological zones in the Brahmaputra Valley, Assam. *Frontiers in Sustainable Food Systems*, 8(July): 1–15. <https://doi.org/10.3389/fsufs.2024.1366499>
- Talukdar, O., Bhattacharya, S. S., & Gogoi, N. (2023). Alternate wet and dry irrigation technology as a sustainable water management and disease vector control tool. *Environmental Quality Management*, 33(1): 23–42. <https://doi.org/https://doi.org/10.1002/tqem.21935>

Publication of Books

Publication of Book Chapters

- Nath, A., Bhuyan, P., Gogoi, N., Deka, P. (2023). Pesticides and Chemical Fertilizers: Role in Soil Degradation, Groundwater Contamination, and Human Health. In: Singh, R., Singh, P., Tripathi, S., Chandra, K.K., Bhadouria, R. (eds) *Xenobiotics in Urban Ecosystems*. Springer, Cham. https://doi.org/10.1007/978-3-031-35775-6_7

Publication of Articles in Conference Proceedings

- **Ashalata Devi**. 2023. Women: forefront of environmental conservation, vulnerable to

degradation. In Proceeding of ICSSR sponsored National seminar on “Role of women in developing north-east India in the context of 21st century”, B. Dutta and M. Chutia (Eds.). Women’s Cell, Dergaon Kamal Dowerah College, Assam, India. Pp. 8-22. ISBN: 978-81-965169-7-0.

Publication of Articles in Other Forms

Conference/Workshop/Symposium/Seminar etc. Attended

Name of Faculty/Staff Member	Purpose of Attending	Title of Event	Date/Period	Organizer and Venue
Dr. S. Kalita	Orientation & Sensitization Programme	Short Term Course on NEP	19 to 28 Feb 2024.	Malaviya Mission Teacher Training Programme (MM-TTP) of the University Grants Commission (UGC) organized by MMTTC, Tezpur University
Dr. S. Handique	Orientation & Sensitization Programme	Short Term Course on NEP	04 to 13 Dec 2023.	Malaviya Mission Teacher Training Programme (MM-TTP) of the University Grants Commission (UGC) organized by MMTTC, Tezpur University
Dr. S. Handique	Inter-Disciplinary two-week Refresher Course	Managing Online Classes & Co-creating MOOCS 26.0	08 to 22 May 2023	Organised by Ramanujan College, University of Delhi.
Ashalata Devi	Participation	Resilience and Sustainability Summit: Vision 2047	17-19 January 2023	National Institute of Disaster Management (NIDM) in collaboration with the Department of Science & Technology (DST) at Vigyan Bhawan, New Delhi.

Ashalata Devi	Participation	Online Training Programme on 'Environmental Leadership & Life Skills (Women Component)'.	March 13-17, 2023.	Indian Institute of Forest Management, Bhopal, sponsored by Department of Science & Technology, Govt. of India
Ashalata Devi	Participation	National Conclave for Augmented Zoonotic Diseases Surveillance at Human Wildlife Interface	17- 18 October 2023	National Centre for Disease Control (NCDC), Directorate General of Health Services, Ministry of Health and Family Welfare, New Delhi.
Ashalata Devi	Participation	Online NEP 2020 Orientation and Sensitisation Faculty Development Programme on Research & Development	27 April-2024 to 04 May 2024	UGC Malaviya Mission Teacher Training Centre, Central University of Jammu
Ashalata Devi	Biodiversity conservation a challenge in Anthropocene.	International Conference on the topic "Environmental Humanities in the Anthropocene Era: Ecojustice and Sustainability"	04 & 05 Oct 2023 Date of talk: 04/10/2023	Fazl Ali College Mokokchung in collaboration with Association for the Study of Literature and Environment (ASLE India) and Lemsachenlok Longleng.
Ashalata Devi	Women: vulnerable to environmental degradation but forefront in environment conservation	National seminar on "Role of women in developing north -east India in the context of 21st century"	06 & 07 Oct 2023 Date of talk: 06/10/2023	Organized by Women's cell, DKDC in Collaboration with IQAC Dergaon Kamal Dowerah College, Dergaon, Assam.
Ashalata Devi	Impact of Climate Change on Biodiversity	National Seminar on 'Climate Change and its Impact in North East India: Understanding Recent Trends and Pattern'	09 & 10 Nov 2023 Date of talk: 10/10/2023	Organized by Dept. of Sociology, Kamargaon college, Golaghat, Assam.
Apurba Kumar Das	Invited Talk	44th IIG annual meet and international	22-24 Jan 2024	IIG Cotton University,

		conference		Guwahati
Apurba Kumar Das	Invited Talk	Seminar on culture and environmental sustainability- commemorating the celebration of World Earth Day, 2024,	25 th March 2024	Department of Environmental science Tezpur university

Invited Talk

Name of Faculty Member	Title of the Talk	Title of the Event	Date	Organizer and Venue
Pratibha Deka	Biological Contaminants in Educational Institution	Faculty development program on Recent Scenario in Biological Sciences	18 Feb 2024	Organized by PG and Research Department of Zoology, P.D. Chidambaram College, Thoothukudi.
Prof. Apurba Kumar Das	Reflections on human's actions towards environmental concerns: The dilemmas and equilibriums	Seminar on Culture and Environmental Sustainability – Commemorating the Celebration of World Earth Day 2024	25 April 2024	Organised by Department of Environmental Science, Tezpur University, Tezpur, Assam
Apurba Kumar Das	Invited Talk	44th IIG annual meet and international conference	22-24 Jan 2024	IIG Cotton University, Guwahati
Apurba Kumar Das	Invited Talk	Seminar on culture and environmental sustainability- commemorating the celebration of World Earth Day, 2024,	25 th March 2024	Department of Environmental science Tezpur university
Apurba Kumar Das	The entropy and Human's environmental actions	World Environment Day 2023	5 June, 2023	Pollution Control Board, Rangapara College

Apurba Kumar Das	Reflections on human's conflicting actions towards environmental concerns: the dilemmas and equilibriums.	44th IIG annual meet and international conference	22-24 Jan 2024	Cotton University, Guwahati
Kasi Marimuthu	Application of Statistics in Research	Virtual one-day national seminar	21st April 2023	Department of chemistry, St Joseph University, Nagaland
Kasi Marimuthu	Data analysis and Statistics Using Jamovi	DST SERB High-end Workshop (Karyashala) on Application of Statistics and Machine Learning in Environmental Research	5th March 2024	Indian Statistical Institute, NE, Tezpur, Assam.
Kasi Marimuthu	Data analysis and Application of Statistics Using SPSS	Science and Engineering Research Board (SERB) sponsored National level Hand on Training on Primer designing & RT-PCR for Biomedical, Agricultural and Epidemiology Research	6th October 2023	Centre for Drug Discovery and Development, Sathyabama Research Park, Sathyabama Institute of Science and Technology, Chennai-600 119, Tamilnadu.
Kasi Marimuthu	Research Opportunities and Computer Science Application in Aquaculture and Fisheries	ReFOCUS'23	15 October 2023	School of Computer Science and Engineering (SCOPE), Vellore Institute of Technology (VIT), Chennai-600127, Tamilnadu.
Kasi Marimuthu	Captive breeding and seed production in commercially important Snakehead fishes, (Channa striatus,	International conference on recent trends in Animal Biology and conservation (ICRABC-2023)	19 – 21 December 2023	Department of Zoology, University College, Thiruvananthapuram, Kerala, India

	and Channa punctatus)''			
Kasi Marimuthu	Two day Workshop on Data Analysis and Statistics Using SPSS	Three Day Workshop	22-24 November 2023	School of Biological Sciences, Madurai Kamaraj University, Tamilnadu
Kasi Marimuthu	A National Level Workshop on Data Analysis Using SPSS	Two Day Workshop	13-14 February 2024.	Yadava College, Madurai, Tamilnadu
Kasi Marimuthu	Two day Workshop on learning statistics and Data Analysis Using SPSS	Two Day Workshop	8-9 February 2024	Department of Microbiology, Periyar University, Salem, Tamilnadu

Other Significant Activities of the Department/Centre

Number of Students Qualified in NET-JRF/SLET/GATE etc.

Name of Qualifying Examination	Number of Qualified Students	Academic Programme
NET	07	

DEPARTMENT OF MATHEMATICAL SCIENCES

About the Department

Established in 1994, the Department of Mathematical Sciences is one of the first three departments of the University. So far, 28 batches of students have completed their M.Sc. in Mathematics, 10 batches of students have completed their Integrated M. Sc. in Mathematics, and the 4 batches of students have completed their Integrated B. Sc. B.Ed. (Major in Mathematics), from the department. Besides these, 74 scholars have received their Ph.D. in Mathematical Sciences from the department. In addition, the department's faculty published over 25 research papers in national and international journals last year.

Academic Programmes and Student Intake

Program	Student Intake
<i>Int B.Sc. B.Ed. in Mathematics</i>	13
<i>Int M.Sc. in Mathematics</i>	25
<i>M.Sc. in Mathematics</i>	53
<i>Doctor of Philosophy</i>	13

Thrust Research Areas of the Department/Centre

- Number Theory
- Algebra
- Nonparametric Statistics
- Numerics of PDE

Major Facilities and Equipment Available

- **ICT-enabled Classrooms**
- **Smart Classroom**
- **Computer lab equipped with 02 server, 28 PC**
- **Conference Room**
- **Seminar Hall**
- **Separate Cabins for Research Scholars**

Faculty Members

Designation	Name	Highest Qualification (Institute)	Specialization	<email> @tezu.ernet.in	Date of holding the current position
	Nayandee p Deka Baruah	Ph.D. (Tezpur University)	Number Theory and Ramanujan's Mathematics	nayan	24-09-2009
	Debajit Hazarika	Ph.D. (Jamia Millia Islamia)	General Topology, Fuzzy sets & applications	debajit	13-08-2010
	Munmun Hazarika	Ph.D. (Tezpur University)	Operator Theory, Functional Analysis	munmun	17-12-2012
	Milan Nath	Ph.D. (IIT, Guwahati)	Ordinary Graph Spectra, Inverse eigenvalue problem	milan	15-10-2013
	Santanu Dutta	Ph.D. (Tezpur University)	Nonparametric functional estimation and risk estimation	sdutta	24-06-2016
	Shuvam Sen	Ph.D. (IIT, Guwahati)	Computational Fluid Dynamics	shuvam	17-12-2016
	Dhiren Kumar Basnet	Ph.D. (Dibrugarh University)	Ring Theory; Finite Field Theory	dbasnet	22-03-2017
	Bhim Prasad Sarmah	Ph.D. (Gauhati University)	Theoretical Physics	bhim	18-12-2009
	Pankaj Kumar Das	Ph.D. (Delhi University)	Coding Theory	pankaj4	28-09-2019
	Yengkhom Satyendra Singh	Ph.D. (Jamia Millia Islamia)	Associative and non-associative algebra and its applications	satyen	09-10-2023
	Pradip Debnath	Ph.D. (NIT Silchar)	Functional Analysis, Fixed Point Theory, Soft Computing.	pradip	17-10-2023

	Debajit Kalita	Ph.D. (IIT Guwahati)	Algebraic Graph Theory	kdebajit	20-12-2023
	Rajat Kanti Nath	Ph.D. (NEHU)	Group Theory and Graph Theory	rknath	05.12.2020
	Bipul Kumar Sarmah	Ph.D. (Tezpur University)	Theory of Partitions, Ramanujan Mathematics	bipul	08-08-2011
	Jayanta Borah	Ph.D. (IIT, Guwahati)	Abstract Fractional Differential Equations, Mathematical Control theory	jba	11-12-2019
	Deepjyoti Goswami	Ph.D. (IIT, Bombay)	Finite Element Method	deepjyoti	01-07-2022
	Biswajit Das	Ph.D. (IIT, Guwahati)	Numerical Linear Algebra	bdas	30-12-2021

Major Research and Development Findings

Faculty/ Researcher	Salient Research
Nayandeep Deka Baruah	Proof of the fact that certain sums of partition numbers are divisible by multiples of 2 and 3.
Santanu Dutta	The log-return of an asset is the change in the asset price, measured in natural logarithmic scale, over a certain period. Mathematical model for long term asset return was proposed. This model is a generalization of the well-known random walk model and provides the mathematical basis for normal approximation and i.i.d. bootstrap approximation of the long-term return distribution and its quantiles. Our results yield estimators of long-term value at risk (VaR) and median shortfall (MS) which are well known measures of market risk. Extensive simulations suggest that the proposed estimators outperform a number of existing estimators of VaR and MS especially over a time horizon of at least one year. Unconditional backtest by Kupiec (J. Derivat. 3, 73–84

	1995) based on the annual returns of the Nifty 50 index of the national stock exchange in India, crude oil and gold prices suggests that the proposed model yields reliable estimates of the one-year Value-at-Risk and Median-Shortfall for these assets.
Shuvam Sen	Extension of Higher Order Compact schemes to moving and deforming domains have been achieved. We have also extended Higher Order Compact Pade type discretization to immersed interface problems.
Dhiren Kumar Basnet	We characterized some n -centralizer finite rings and computed their commuting probabilities.
Pankaj Kumar Das	Necessary and sufficient conditions for linear codes correcting different types of errors with their Hamming weight constraint. Construction of Integer codes correcting unidirectional, asymmetric burst, CT-burst, solid burst along with their storage consumption, Decoding error probability of different codes.
Rajat Kanti Nath	The concept of Solvable Conjugacy Class graph (SCC-graph) of finite groups has been introduced and obtained results regarding connectivity, girth and clique number. We show that there are only finitely many finite groups whose SCC-graph has a given clique number. We compute the genus and crosscap of SCC-graph for the dihedral groups, dicyclic groups, symmetric groups and alternating groups and characterize those groups such that their SCC-graph is planar, toroidal, double-toroidal or triple-toroidal. We also compute CN-spectrum and CN-energy of commuting graphs of several families of finite non-commutative rings and identify several rings such that their commuting graphs are CN-integral but not CN-hyperenergetic.
Jayanta Borah	We study the qualitative properties of fractional evolution equations . Using semigroup theory and fixed point theorems, we investigate the existence, uniqueness, stability and controllability of different classes of fractional differential equations.
Deepjyoti Goswami	Analyzed interior penalty (IP) discontinuous Galerkin (DG) methods as well as DG two-grid methods for the time dependent Navier-Stokes equations, Kelvin-Voight viscoelastic fluid model and Oldroyd model of order one. Apart from showing consistency and stability of the scheme(s), optimal order of convergence has been established in appropriate norms in the semi-discrete case. First-order backward Euler time-discretization is then analyzed, and optimal fully discrete error estimates have been calculated. Numerical results confirm the efficiency of these methods.

Research Projects (both Ongoing and New)

Project Title	Funding Agency	Amount (in INR)	Duration	Investigator(s)
Development and applications of compact higher-order discretization of the Navier-Stokes and the Boussinesq equation in time-varying domains	CRG-SERB	23,06,205/-	3 years (from 13.01.2023)	Shuvam Sen
Discontinuous Galerkin finite element analysis of the coupled time-dependent Navier-Stokes and Darcy problem	CRG-SERB	Approved on 4-Dec-2023. Yet to get the Budget Concurrence.	3 years	Saumya Bajpai, IIT Goa (PI) Deepjyoti Goswami (Co-PI)

Publications by Faculty and Staff Members*Publication of Articles in UGC-CARE Listed Group I/Group II Journals*

- Bajpai, S., Goswami, D. , Ray, K. (2023), A priori error estimates of a discontinuous Galerkin method for the Navier-Stokes equations, Numer. Algo. 94: 937-1002.
- Baruah, N. D. and Bandyopadhyay, S. (2024) Arithmetic identities for some analogs of the 5-core partition function, Journal of Integer Sequences, 27: Article 24.4.5, 15
- Baruah, N. D. and Sarma, A. (2023) Differences of even and odd numbers of parts of the cubic and analogous partition functions, Bol. Soc. Mat. Mex., 29(94): 24
- Baruah, N. D.(2023) Divisibility of sums of partition numbers by multiples of 2 and 3, Bulletin of the Australian Mathematical Society, doi:10.1017/S0004972723001351.
- Baruah, N. D., Das, H. and Talukdar, P. (2023) Congruences for k-elongated plane partition diamonds, International Journal of Number Theory, 19(09): 2121–2139.
- Bhowal, P., Cameron, P. J., Nath, R. K. and Sambale, B. (2023) Solvable conjugacy class graph of groups, Discrete Mathematics, 346(8): 8,113467.
- Bhowal, P., Cameron, P. J., Nath, R. K. and Sambale, B. (2024) Solvable conjugacy class graph of groups, Archiv der Mathematik, 122(5): 475 – 489.
- Bir, B., Goswami, D. and Pani, A. K. (2024), Optimal error estimates of the penalty finite element method for the unsteady Navier-Stokes equations with nonsmooth initial data, J. Sci. Comput. 98: 51.
- Das, B and Bora, S.(2023), Nearest Rank Deficient Matrix Polynomials, Linear Algebra and its Applications, 674: 304-350.
- Das, P. K. (2023), Location of solid burst within two adjacent sub-blocks, Journal of Algebraic Systems, 11(1): 137-147.

- Das, P. K. and Kumar, S. (2024), Linear codes correcting repeated bursts equipped with homogeneous distance, *Theory of Computing Systems*, 68(2): 512-528.
- Das, P. K. and N. K. Pokhrel (2024), Asymmetric solid burst correcting integer codes, *Kuwait Journal of Science*, 51(1): 100122.
- Debnath, P. (2023), Best proximity points of multivalued Geraghty contractions, *Miskolc Math. Notes*, 24 (1): 119-127.
- Debnath, P. (2023), Results on discontinuity at fixed point for a new class of F-contractive mappings, *Sahand Commun. Math. Anal.*, 20 (4): 21-32.
- Dutta, J., Basnet, D. K. and Nath, R. K. (2023) Commuting probabilities of n-centralizer finite rings, *Proyecciones Journal of Mathematics*, 42(6): 1489 – 1498.
- Dutta, S. and Powdel, T. K. (2023) Modeling Long Term Return Distribution and Nonparametric Market Risk Estimation, *Sankhya B*, 85: 257-289 Springer India.
- Fasfous, W. N. T. and Nath, R. K. (2024) Common neighborhood spectrum and energy of commuting graphs of finite rings, *Palestine Journal of Mathematics*, 13(1): 66 –76.
- Goswami, D. , Dam'azio, P.D. , Yuan, J.-Y. , Bir, B. (2023), Two-grid finite element Galerkin approximation of equations of motion arising in Oldroyd fluids of order one with non-smooth initial data, *Comput. Math. Math. Phys.*, 63 (4): 659-686.
- Haokip, L. and Das, P.K. (2023), Weight distribution of low-density periodic random errors and their correcting codes with error decoding probability, *Prikladnaya Diskretnaya Matematika*, 62: 106-118.
- Hazarika, D, Borah, J., Singh, B.K. (2024) Existence and controllability of non-local fractional dynamical systems with almost sectorial operators, *Journal of Mathematical Analysis and Applications*, 532(2).
- Pokhrel, N. K. and Das, P.K. (2023), Probability of erroneous decoding for integer codes correcting burst asymmetric/unidirectional/symmetric errors within a byte and up to double asymmetric errors between two bytes, *Kuwait Journal of Science*, 50(2): 75-82.
- Pokhrel, N.K. and Das, P.K. (2024), Low-density and high-density asymmetric CT-burst correcting integer codes, *Advances in Mathematics of Communications*, 18(3): 842-856.
- Radonjic, A., Pokhrel, N.K. and Das, P.K. (2023), Integer codes correcting burst errors within two bytes, *Computational and Applied Mathematics*, 42: 128.
- Ray, K. , Goswami, D. and Bajpai, S. (2024), Discontinuous Galerkin two-grid method for the transient Navier-Stokes equations, *Comput. Methods Appl. Math.* <https://doi.org/10.1515/cmam-2023-0035>
- Ray, K., Goswami, D. and Bajpai, S. (2024), A discontinuous Galerkin finite element method for the Oldroyd model of order one, *Math. Meth. Appl. Sci.*, 47 (9): 7288-7328.
- Saikia, M. P., Sarma, A. and Talukdar, P. (2024) Ramanujan-type congruences for partition k-tuples with 5-cores, *Indian Journal of Pure and Applied Mathematics*, <https://doi.org/10.1007/s13226-024-00566-8>

Papers accepted for publication

- Bhowal, P. and Nath, R. K. Genus of commuting graphs of certain finite groups, *Journal of Algebraic Systems*, accepted for publication.
- Das, S., Nongsiang, D. and Nath, R. K. Characterization of commuting graphs of finite groups having small genus, *Algebra and Discrete Mathematics*, accepted for publication.

- Dutta, P. and Nath, R. K. A remark on autocommuting probability of finite groups, Boletim da Sociedade Paranaense de Matemática, accepted for publication.
- Fasfous, W. N. T. and Nath, R. K. Genus of commuting graphs of finite rings, Boletim da Sociedade Paranaense de Matemática, accepted for publication.
- Fasfous, W. N. T. and Nath, R. K. Inequalities involving energy and Laplacian energy of non-commuting graphs of finite groups, Indian Journal of Pure and Applied Mathematics, published online, <https://doi.org/10.1007/s13226-023-00519-7>.
- Kachari, P. and Borah, J. Existence of solution for impulsive fractional $q_{\{r\}}$ -difference equation of implicit form with nonlocal boundary condition, TWMS J. App. Eng. Math.
- Sharmah A, Hazarika, D. On some properties of $I^{\wedge}K_{sn}$ -topological spaces, Bol Soc Parana Mat, published online. <https://doi.org/10.5269/bspm.62781>.
- Sharmah A, Hazarika, D. On $I^{\wedge}K$ -convergence in a topological space via semi-open sets, Mat Vesnik, accepted for publication.

Publication of Articles in Other Forms

- Debnath, P., Generalized Boyd-Wong type contractions (Book Chapter), In: Debnath, P., Torres, D. F. M. and Cho, Y. J. (Editors) (2023), Advanced Mathematical Analysis and Its Applications, Chapman & Hall/CRC Press, ISBN 9781032481517

Publication of Books

- Baruah, N. D. (2024). Ramanujan Aaru Teur Gonit, Second Edition, Sanjiwan Prakashan, Guwahati, 2024, ISBN-978-81-950015-3-8.
- Benaki Lairenjam, Yengkhom Satyendra Singh, and Mahalakshmi, Solution of ECG Inverse Problem Using Artificial Neural Network, Springer Nature Singapore Pte Ltd. 2024, Proceedings of International Conference on Computational Intelligence, Algorithms for Intelligent Systems, https://doi.org/10.1007/978-981-97-3526-6_17 201 202.
- Debnath, P., Torres, D. F. M. and Cho, Y. J. (Editors) (2023), Advanced Mathematical Analysis and Its Applications, Chapman & Hall/CRC Press, ISBN 9781032481517.

Conference/Workshop/Symposium/Seminar etc. Attended

Name of Faculty/Staff Member	Purpose of Attending	Title of Event	Date/Period	Organizer and Venue
Bhim Prasad Sarmah	Resource Person	“Fun with Science” and “Fun with Mathematics”	22-24 March, 2024	Organized by Rotary Club of Digboi at Oil Valley School, Bogapani

Bipul Kumar Sarmah	Deputy Co-ordinator	Residential Training of Science Teachers of provincialized school teachers of Assam.	03-15 July, 2023	Organized jointly by Tezpur University and Samagra Shiksha Assam at Tezpur University
Bipul Kumar Sarmah	Participant	NEP Orientation & Sensitization Programme	25-31 October, 2023	Online by MMTTC, National Institute of Educational Planning and Administration, New Delhi
Bipul Kumar Sarmah	To deliver a Symposia Talk	38th Annual Conference of the Ramanujan Mathematical Society	22-24, December, 2023	IIT Guwahati
Bipul Kumar Sarmah	Session chairing	38th Annual Conference of the Ramanujan Mathematical Society	22-24, December, 2023	IIT Guwahati
D. K. Basnet	Session Chairing	National Conference on Mathematics and its Applications-II (NCMA-II) 2023	07-08 November, 2023	Cotton University, Guwahati, Assam
Deepjyoti Goswami	Session Charing	38th Annual Conference of the Ramanujan Mathematical Society	22-24, December, 2023	Indian Institute of Technology, Guwahati
Munmun Hazarika	To deliver a Symposia Talk	38th Annual Conference of the Ramanujan Mathematical Society	22-24, December, 2023	IIT Guwahati

		ical Society		
Pradip Debnath	Paper presentation	38th Annual Conference of the Ramanujan Mathematical Society	22-24, December, 2023	Indian Institute of Technology, Guwahati
Rajat Kanti Nath	Delivered an Invited Talk	7th Biennial International Group Theory Conference	07-11 August, 2023	North-West University, Potchefstroom South Africa
Shuvam Sen	Participant	NEP Orientation & Sensitization Programme	18-30 January, 2024	Online by MMTTC, Tezpur University

Invited Talk

Name of Faculty Member	Title of the Talk	Title of the Event	Date	Organizer and Venue
B. P. Sarmah	Low-cost Science Experiments	Residential Training of Science Teachers of provincialized school teachers of Assam.	03-15 July, 2023	Organized jointly by Tezpur University and Samagra Shiksha Assam at Tezpur University
D. K. Basnet	Foundation	InitMath(Initiation Into Mathematics) programme, organized by the MTTS Trust funded by the National Board for Higher Mathematics (NBHM), DAE, India.	1- 6 April, 2023	Organized by MTTS TRUST and Ramkrishna Mission Vivekananda Centenary College (RKMVCC), Rahara, Kolkata

D. K. Basnet	Number Theory	MTTS Level O Summer camp, organized by the MTTS Trust funded by the National Board for Higher Mathematics (NBHM), DAE, India	22 May- 03 June, 2023	Organized by MTTS Trust at IIT Madras
D. K. Basnet	Teaching Pedagogy	Residential Training of Science Teachers of provincialized school teachers of Assam.	03-15 July, 2023	Organized jointly by Tezpur University and Samagra Shiksha Assam at Tezpur University
D. K. Basnet	Foundation	Online Foundation Course in Mathematics (OFCM) -2023, organized by the MTTS Trust and funded by the National Board for Higher Mathematics, DAE, India.	20 August- 02 September, 2023	Organized by the MTTS Trust on Online platform
D. K. Basnet	On the recent developments of primitive and normal elements of finite fields	National Conference on Mathematics and its Applications-II (NCMA-II) 2023	7- 8 November, 2023	Cotton University, Guwahati, Assam
D. K. Basnet	Foundation & Real Analysis	MTTS Overture Programme, organized by the MTTS Trust and funded by the National Board for Higher Mathematics (NBHM), DAE, India.	17- 18 November, 2023	Organized by the MTTS Trust at Jorhat Institute of Science and Technology, Jorhat, Assam
D. K. Basnet	Algebra and Number Theory	Mathematics Olympiad Teachers Training Camp (MOTTCa 2023) organized by NIT	20- 24 November, 2023	Organized by NIT Silchar, Assam in collaboration with G.C.

		Silchar, Assam in collaboration with G.C. College, Silchar and Assam Academy of Mathematics, sponsored by Homi Bhaba Centre for Science Education (HBCSE) TIFR Mumbai.		College, Silchar and Assam Academy of Mathematics, sponsored by Homi Bhaba Centre for Science Education (HBCSE) TIFR Mumbai at NIT Silchar
D. K. Basnet	Real and Complex number system	National Mathematics Day Celebration 2023 organized by Assam Academy of Mathematics, Handique Girls College and USTM Meghalaya, on.	22nd December, 2023	Organized by Assam Academy of Mathematics, Handique Girls College and USTM Meghalaya, at Handique Girls College, Guwahati
D. K. Basnet	Foundation	Init-Math (Initiation Into Mathematics) programme, organized by the MTTS Trust and funded by the National Board for Higher Mathematics (NBHM), DAE, India.	3- 8 January, 2024	Organized by the MTTS Trust at Tezpur University, Assam, India
Debajit Kalita	On Bicyclic Graphs and Their Inverses	International Conference on Linear Algebra and its Applications	18–21 December, 2023	MAHE, Manipal
Debajit Kalita	Minimizing Algebraic connectivity of graphs constructed with given blocks	38th Annual Conference of the Ramanujan Mathematical Society	22-24, December, 2023	Indian Institute of Technology, Guwahati

Deepjyoti Goswami	A three-step two-grid discontinuous Galerkin method for the Oldroyd model of order one	38th Annual Conference of the Ramanujan Mathematical Society	22-24 December, 2023	Indian Institute of Technology, Guwahati
Deepjyoti Goswami	Optimal error estimate of a two-grid DG approximation for time-dependent Navier-Stokes equations	ICMMIS-2024 International Conference on Mathematical Modelling and Intelligent Systems	18-20 March, 2024	Sri Vidya Mandir Arts & Science College, Tamil Nadu in collaboration with others.
M. Nath	Invariants	Residential Training of Science Teachers of provincialized school teachers of Assam.	03-15 July, 2023	Organized jointly by Tezpur University and Samagra Shiksha Assam at Tezpur University
N. D. Baruah	Some new results on the Rogers-Ramanujan continued fraction	University Seminar	17 June, 2023	Organized by Departments of Mathematics, Cotton University.
N. D. Baruah	Division Algorithm	Residential Training of Science Teachers of provincialized school teachers of Assam.	03-15 July, 2023	Organized jointly by Tezpur University and Samagra Shiksha Assam at Tezpur University
N. D. Baruah	Identities for the Rogers-Ramanujan continued fraction and Rogers-Ramanujan functions	National Conference on Mathematics and its Applications-II (NCMA-II)	7 th November, 2023	Cotton University, Guwahati during November 7–8, 2023

N. D. Baruah	Ramanujan and his Mathematics	University Seminar	22 nd December, 2023	Bhattadev University, Bajali, organized by Departments of Mathematics Bhattadev University, Bajali and Bhabanipur Anchalik College, Pathsala on the occasion of National Mathematics Day.
N. D. Baruah	Srinivasa Ramanujan and a glimpse of his mathematics	Mathematical and Physical Sciences Divisional Research Seminar	06–07 February, 2024	Mathematical and Physical Sciences Division, School of Arts and Sciences, Ahmedabad University
N. D. Baruah	The Division Algorithm	Mathematical and Physical Sciences Divisional Research Seminar	06–07 February, 2024	Mathematical and Physical Sciences Division, School of Arts and Sciences, Ahmedabad University
Pankaj Kumar Das	Burst distance and linear codes	International Conference on "Advances in Pure and Applied Mathematics"	08-10 February, 2024	Shyam Lal College, University of Delhi,
Rajat Kanti Nath	Various probabilities of finite groups and their relations with graphs defined on groups	Departmental Seminar	25 th May, 2023	Mathematics Department of Indian Institute of Science Education and Research Bhopal

Rajat Kanti Nath	Graphs and probabilities defined on finite groups	7th Biennial International Group Theory Conference	08 th August, 2023	North-West University, Potchefstroom South Africa
Rajat Kanti Nath	Commuting probability, its generalizations and various graphs defined on finite groups	Departmental Seminar	16 th November, 2023	Mathematics Department of Indian Institute of Technology Madras
Rajat Kanti Nath	Learning Mathematics with Fun	Daylong Hands-on Workshop on Mathematics (for the Secondary School students), organized as a part of The National Mathematics Day 2023 celebration	22 nd December, 2023	Department of Mathematical Sciences, Tezpur University in collaboration with Assam Academy of Mathematics
Shuvam Sen	Fourth order finite difference discretization of the incompressible N-S equations in deformable domains	Online 5-Day Faculty Development Program (FDP) on “Mathematics and Computing”	18 th July, 2023 (Online)	The ICFAI University, Tripura, India
Shuvam Sen	Fourth order compact discretization of the incompressible N-S equations in deformable domains	Five Day Professional Development Program on “Computational Fluid Dynamics: Methods & Applications”	07 th September, 2023 (Online)	Little Flower Degree College, Hyderabad & Sonapur College, Sonapur, India
Shuvam Sen	Mathematics in Nature	Ganit Prajna Samvardhan 2023	21 st November, 2023	VKSPV, Guwahati

Number of Students Qualified in NET-JRF/SLET/GATE etc.

Name of Qualifying Examination	Number of Qualified Students	Academic Programme
<i>NET-JRF</i>	01	Integrated M.Sc.
<i>NET-JRF</i>	03	M.Sc.
<i>NET-LS</i>	02	Integrated M.Sc.
<i>NET-LS</i>	04	M.Sc.
<i>GATE</i>	01	Integrated M.Sc.
<i>GATE</i>	04	M.Sc.
<i>SLET</i>	06	M.Sc.
<i>NBHM</i>	01	M.Sc.

Enrolment of Students in other Institutes for Higher Studies

Name of Student	Academic Programme	Name of other Institute	Enrolled Academic Programme
Dr. Kuldeep Sarma	Ph.D.	IISc Bangalore	NBHM Postdoctoral Fellow
Subrata Panigrahi	M.Sc.	Institute of Mathematical Sciences (IMSc.) Chennai	Ph.D. (Research Fellow)
Jayshree Kalita	Int. M.Sc. (Lateral Exit after B.Sc.)	Vanderbilt University, USA	Ph.D.

DEPARTMENT OF MOLECULAR BIOLOGY AND BIOTECHNOLOGY

The Department

The Department of Molecular Biology and Biotechnology (MBBT) is supported by UGC-SAP DRS II and DST-FIST. It was established on July 24, 1997. Department got recognition from the Department of Biotechnology (DBT) of the Ministry of Science and Technology, Government of India for its Post Graduate programme in 1998. The Department offers two-year M.Sc degree in Molecular Biology and Biotechnology, five-year Integrated M.Sc in Life Sciences (4+1 years as per NEP 2020) and Ph.D in Molecular Biology and Biotechnology. Faculty members of the Department are trained in modern areas of Molecular Biology and Biotechnology from various internationally reputed institutes and actively involved in research.

Academic Programmes and Student Intake

Academic Programme	Intake
Integrated M.Sc. in Life Science (4+1 years as per NEP 2020)	25
M.Sc. in Molecular Biology & Biotechnology	30
Ph.D. in Molecular Biology & Biotechnology	Variable (13 during 2023-24)

Thrust Research Areas of the Department/Centre

- Microbial, Plant, Animal and Environmental Biotechnology
- Disease Biology
- Bioinformatics and Computational Biology
- Omics in Biology

Major Facilities/Equipment Available

- Animal cell culture facility
- Plant tissue culture facility
- Microbiology lab
- Bioinformatics facility
- ONGC CPBT Centre for Petroleum Biotechnology
- Elix-3 Water Purification System
- Cold Room
- Flow Cytometer
- DNA sequencers (4 capillary)

- Bioanalyzer
- Quantitative PCR
- Fast Protein Liquid Chromatography (FPLC)
- UHPLC systems
- Ultracentrifuge
- HPLC
- Fluorescence microscope

Major Research and Development Findings

Faculty/Researcher	Salient Research Findings
Dr. SPG Ponnamm	<ul style="list-style-type: none"> • We are in the process of identifying significant clinical, demographic and molecular aspects associated with the Polycystic ovary syndrome patients from Assam. • We are also in the process of performing experiments to downregulate the Non-Homologous End Joining pathway of dsDNA repair using CRISPR-Cas9 system in human cell lines and biasing them towards the Homologous Repair pathways. This in the long run could be a potential therapeutic in the treatment of important genetic disorders.
Dr. S. Dasgupta	<ul style="list-style-type: none"> • Vanillin, a key component of vanilla beans, has been identified as a novel and potent inhibitor of IRAK4. It blocks LPS-induced TLR4 activation in macrophages by targeting the MyD88-dependent pathway, directly suppressing IRAK4 activity. Vanillin selectively inhibits constitutively active IRAK4/1-associated NF-κB activation and proinflammatory cytokine expression. Mutations at Tyr262 and Asp329 in IRAK4, or modifications of vanillin's 3-OMe and 4-OH groups, significantly reduce its inhibitory function. Thus, vanillin shows potential as a therapeutic agent for managing inflammatory diseases. • We found that LPG of <i>L. donovani</i> interacts with macrophage TLR4, enabling parasite entry without affecting macrophage viability. Silencing TLR4 or inhibiting LPG reduces parasite infection and enhances macrophage migration and ROS generation. In contrast, overexpressing TLR4 alters these functions. Mutations in LRR5 and LRR6 of TLR4 significantly prevent LPG binding and

	blocking the entry of parasites. These findings suggest that targeting the LRR5/LRR6 interactions with LPG could be a novel strategy to prevent visceral leishmaniasis.
Dr. A N Jha	<ul style="list-style-type: none"> • To use the Nanocarriers for the purpose of targeted drug delivery. We identify a set of key enzymes from functionally important metabolic pathways and it is conjugated with nanocarriers to analyze the changes caused, as any structural change directly affects the protein function. Different nanocarriers are investigated for using as potential drug carriers. • Visceral Leishmaniasis is a fatal disease prevalent in Asian and African continents. We obtain Leishmania genomes and screened for gene variants or SNPs significant to some metabolic pathway that can serve as potential drug targets. These drug targets are used for drug designing to develop novel therapeutic techniques for the disease.
Dr. Nima D. Namsa	<ul style="list-style-type: none"> • Identified a type-specific chimeric antigen (TSA) of <i>Orientia tsutsugamushi</i> as prototype antigen for development of ELISA-based detection of scrub typhus disease • Identified rotavirus-genome wide presence of CRISPR sequence for developing CRISPR-Cas9 detection method.
Dr. Pankaj Barah	<ul style="list-style-type: none"> • Generated first genome scale dataset on highly aggressive gallbladder cancer from North-East India. • Developed Knowledgebase for Rice Sheath Blight Information (KRiShI) http://www.tezu.ernet.in/krishi/ • Analyzed genome-scale molecular data from post-mortem brain samples, focusing on the striatum of the basal ganglia, to identify key genetic markers for Bipolar Disorder and Schizophrenia, with contributions from two M.Sc. students and collaboration with experts from LGBRIMH, potentially advancing the understanding and treatment of these disorders. • Developed ETENLNC, a user-friendly, open-source computational framework for identifying and analyzing lncRNAs from raw NGS data, offering

	<p>insights into their expression patterns and interactions, and tested against six other tools using data from three organisms for optimization on both desktop and high-performance computing servers.</p>
Prof. Robin Doley	<ul style="list-style-type: none"> ● Biochemical and immunological studies reveals that the Indian polyvalent antivenom is poor in neutralizing the toxic effect of North-East Indian Medically important snakes. ● A toxic protein from venom of Naja kaouthia of North-East origin have been identified which is not immunodepleted by Indian polyvalent Antivenom. ● Venomic and in-vitro pharmacological profiling of Indian green pit vipers: A lesser-known snake group of north-east India have been revealed. ● Reported that Daboxin P, a phospholipase A2 of Indian Daboia russelii venom, modulates thrombin-mediated platelet aggregation
Dr. Rupak Mukhopadhyay	<ul style="list-style-type: none"> ● We have established the role of ribosomal protein L22 (RPL22) in regulation of proliferation of breast cancer cells. We have generated shRNA-mediated L22-knockdown cells which showed significant expression of EMT markers. The cells generated larger-sized tumors in immunocompromised animals suggesting tumor suppressor role of L22. ● We established the role of high salt on the pathophysiology of breast cancer cells. We also studied the interaction of tumor associated macrophages (TAMs) and cancer cells to understand the effect of salts on cancer progression. RNA sequencing analysis suggested potential candidate proteins which could be involved in salt-mediated anti-cancer effect. ● Anti-inflammatory activities of purified plant polyphenols are established using cell culture model. The selected polyphenols showed promising inhibition of IL-6-mediated inflammation in macrophages. ● In our continuous effort to explore medicinally important plants of NE India for their efficacy against breast cancer, we have identified two plant extracts with significant anti-cancer activity. The study on the mechanism of action of these extracts are currently undergoing.

Prof. Manabendra Mandal	<ul style="list-style-type: none"> • Screened potential indigenous probiotics for their hypocholesterolemic activity. • Conducted in-vitro studies on cellulose digestion properties of probiotics. • Isolated and screened bacteriophages as alternatives to conventional antibiotics against fish-borne pathogens.
Dr. Jyoti Prasad Saikia	<ul style="list-style-type: none"> • Haldi is a common spice in Indian kitchen. One of the major chemical compounds of haldi, curcumin was studied in our laboratory in terms of degradation in a novel environment. The degradation of curcumin is engineered to make a novel sensor for air/oxygen. For more details, please read the published paper in Russian Journal of General Chemistry with details available in our home page. • Garlic mustard oil macerate commonly known as “rosuntel” is a common household food-based preparation used for giving relief to nasal congestion during common cold. The preparation was optimised with respect to enhanced volatile anti-fungal activity. For more details read our paper published in Natural Product Research with details available in our home page.
Dr. Venkata Satish Kumar Mattaparthi	<ul style="list-style-type: none"> • Apart from the primary receptor ACE2 of SARS-CoV-2, there are other co-receptors (CAT & L-SIGN) which may be involved in viral entry and higher virulence of SARS-CoV-2 may derive from the overall stability of the complexes and greater affinity of S protein for the receptors. • We designed peptides against the main protease (Mpro) of SARS-CoV-2 and found the Mpro attains a higher stability when bound to the newly designed peptides and was found to have a strong affinity with the Mpro and might involve in the inhibition of Mpro. • Developed a novel method utilizing dihedral angles to identify the interface between regions of varying degrees of order or disorder in Intrinsically Disordered Proteins (IDPs), enabling the characterization of their distinctive structural features. Our comparative MD simulations on four proteins reveal that IDPs exhibit rapid conformational dynamics, higher RMSF, secondary structural transitions, and low compactness, setting them apart from partially and completely ordered

	<p>proteins. This method opens new avenues for predicting and understanding IDP behavior.</p> <ul style="list-style-type: none"> • Characterized the conformational features of an IDP, HIF-1α in complex with its binding partner, HIF1 protein. Unbound HIF-1α exhibits remarkable flexibility and disorder, enabling interactions with multiple partners. However, upon binding to HIF1, it undergoes a conformational shift to a more ordered, less flexible structure, regulating its interactions and other functional activities.
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RESEARCH PROJECTS (BOTH ONGOING AND COMPLETE)

Project Title	Funding Agency	Amount (in INR)	Duration	Investigator(s)
Identification of lipid-induced monokine(s) and its role on adipocyte dysfunction and insulin resistance	ICMR	52.1672 lakhs	2023–2026	PI: Dr. Suman Dasgupta Co-PI: Dr. Aditya Kumar
Integrated WGS and metabolic pathway analysis for SNPs related to drug resistance for targeted drug development	ICMR	23 lakhs	2022–2024	Dr. A N Jha
Strategic Systems Biology and Metabolic Pathways approach to develop nanocarriers for targeted drug delivery	SERB-DST	26 lakhs	2021–2024	Dr. A N Jha
Integrative approach for understanding the role of noncoding mutations in the evolution of biological systems	DBT	117 lakhs	2018-2023	Dr. Pankaj Barah
Proteomics of medically important snakes of North East India and development of	ICMR	78.05136 lakhs	2023- 2025	Dr. Robin Doley

diagnostic kit for identification of snakebite at species level				
Design of aptamers against venom protein of <i>Trimeresurus erythrurus</i> and its validation: An alternative approach for anti-snake venom	DST	44.85 lakhs	2023-2026	Dr. Robin Doley
Investigating the role of ribosomal protein L22 in human breast cancer progression	SERB	54.18 lakhs	2022-2025	Dr. Rupak Mukhopadhyay
Indigenous Probiotic based approach for cardiovascular disease management	ICMR	49.61841 lakhs	2021-2024	Prof. Manabendra Mandal
Bioinformatics and computational Biology Centre.....Pradesh	DBT	67.16185 lakhs	2022-2027	Prof. S K Ray

Publications by Faculty and Staff Members

Journal Publications

1. Almaadani HK, and **Mattaparthi VSK** (2024). Impact of E71S Mutation on SHANK3 Conformational Dynamics at the SPN-ARR Interface. *Biointerface Research in Applied Chemistry*, 14(5): 104. <https://doi.org/10.33263/BRIAC145.104>.
2. Almaadani HK, and **Mattaparthi VSK** (2024). The Effect of N52R mutation at the SPN-ARR interface on the conformational dynamics of SHANK3, *Current Proteomics*, 21:1-12. <https://doi.org/10.2174/0115701646301703240730054408>
3. Baruah K, Ajit Singh AK, Kumari K, Nongbri DL, **Jha AN** and Roy AS (2024). Interactions of Turmeric- and Curcumin-Functionalized Gold Nanoparticles with Human Serum Albumin: Exploration of Protein Corona Formation, Binding, Thermodynamics, and Antifibrillation Studies. *Langmuir*, 40: 1381-1398. [10.1021/acs.langmuir.3c03032](https://doi.org/10.1021/acs.langmuir.3c03032)
4. Baruah P, Patra A, Barge S, Khan MR, **Mukherjee AK** (2023). Therapeutic potential of bioactive compounds from the edible mushrooms to attenuate SARS-COV-2 infection and some complications in Coronavirus disease (COVID-19). *Journal of Fungi* 9(9): 897. <https://doi.org/10.3390/jof9090897>

5. Bhuyan, S., Yadav, M., Giri, S. J., Begum, S., Das, S., Phukan, A., ... & **Ray, S. K** (2023). Microliter spotting and micro-colony observation: A rapid and simple approach for counting bacterial colony forming units. *Journal of Microbiological Methods*, 207: 106707.
6. Bora, A., Sarmah, D., Rather, M. A., **Mandal, M.**, & Karak, N (2024). Nanocomposite of starch, gelatin and itaconic acid-based biodegradable hydrogel and ZnO/cellulose nanofiber: A pH-sensitive sustained drug delivery vehicle. *International Journal of Biological Macromolecules*, 256: 128253.
7. Borah P, and **Mattaparthi VSK** (2023). Investigation into the Interaction Sites of the K84s and K102s Peptides with α -Synuclein for Understanding the Anti-Aggregation Mechanism: an in-silico study. *Current Biotechnology*, 12(2): 103-117. <http://dx.doi.org/10.2174/2211550112666230331104839>
8. Borah R, **Mattaparthi VSK**(2024). and Hazarika G. Assessment of the Comparative Interactions of Cuminaldehyde with Bovine Serum Albumin and Human Serum Albumin through Spectroscopic and Molecular Docking Investigation. *Journal of Solution Chemistry*, 53: 1130–1148. <https://doi.org/10.1007/s10953-024-01367-7>.
9. Borah, A., Das, D.K., **Mukhopadhyay, R.**, Mahanta, C. L (2023). Investigation of low amylose rice extrudates blended with germinated green gram and bhimkol flour. *Applied Food Research*, 3(2),100315.
10. Castro-Amorim J, Oliveira A, **Mukherjee AK**, Ramos MJ, Fernandes PA (2023). Unraveling the reaction mechanism of Russell's viper venom factor X activator: a new paradigm for the reactivity of zinc metalloproteinases? *Journal of Chemical Information and Modeling* 63(13): 4056–4069. <https://doi.org/10.1021/acs.jcim.2c01156>
11. Castro-Amorim J, Oliveira A, Saulo S, Andreimar S, **Mukherjee AK**, Ramos MJ, Fernandes PA (2023). Catalytically active snake venom PLA₂ enzymes: An overview of its elusive mechanisms of reaction. *Journal of Medicinal Chemistry* 66(8):5364–5376. <https://pubs.acs.org/doi/10.1021/acs.jmedchem>.
12. Choudhary SA, Patra D, Banerjee D, Sinha A, Roy S, Kabeer SW, Das SK, Jha AN, Tikoo K, Pal D, **Dasgupta S** (2023). A small molecule potent IRAK4 inhibitor abrogates lipopolysaccharide-induced macrophage inflammation in-vitro and in-vivo. *European Journal of Pharmacology* 944: 175593,. [DOI: 10.1016/j.ejphar.2023.175593]
13. Das B, Madhubala D, Mahanta M, Patra A, Puzari UR, Khan MR, **Mukherjee AK** (2023). A Novel Therapeutic Formulation for the Improved Treatment of Indian Red Scorpion (*Mesobuthus tamulus*) Venom-Induced Toxicity-Tested *Caenorhabditis elegans* and Rodent Models. *Toxins* 14, 15(8):504,. 10.3390/toxins15080504
14. Das C, Mohta A, and **Mattaparthi VSK** (2024). Computational investigation on the impact of mutations in the SARS-CoV-2 spike RBD region of BA.2.12.1 and BA.4 variants on its interaction with ACE2 Receptor Protein. *Letters in Applied Nano Bioscience*, 13(2): 96. <https://doi.org/10.33263/LIANBS132.096>.
15. Das C, and **Mattaparthi VSK** (2023). Efficiency of CAT and L-SIGN as alternative receptors for SARS-CoV-2 Spike Protein. *Coronaviruses Journal*, 4(3): e041023221709. <http://dx.doi.org/10.2174/0126667975262159230927074645>.
16. Das C, and **Mattaparthi VSK** (2024). Computational Design of Peptide Inhibitors targeting the SARS-CoV-2 Main Protease. *J Coronaviruses*, e130624230993. <http://dx.doi.org/10.2174/0126667975319992240612053235>.

17. Das D, and **Mattaparthi VSK** (2024). Conformational dynamics of post-translational modified α -Synuclein (pY39 and pS87) and its interaction with lipid membrane. *Current Biotechnology*, 13(2):119-129. <http://dx.doi.org/10.2174/0122115501310995240522064640>.
18. Das D, and **Mattaparthi VSK** (2024). Computational investigation on the conformational dynamics of C-terminal truncated α -Synuclein bound to membrane. *Journal of Biomolecular Structure and Dynamics*. <https://doi.org/10.1080/07391102.2024.2310788>
19. Das D, Bharadwaz P, and **Mattaparthi VSK** (2023). Computational investigation on the effect of the peptidomimetic inhibitors (NPT100-18A and NPT200-11) on the α -Synuclein and lipid membrane interactions. *Journal of Biomolecular Structure and Dynamics*. <https://doi.org/10.1080/07391102.2023.2262599>.
20. Das D, Bharadwaz P, and **Mattaparthi VSK** (2024). Insilico investigation on the structural insights of the binding of Squalamine inhibitor with membrane-bound α -Synuclein. *Current Proteomics*, 21(2): 88-96. <http://dx.doi.org/10.2174/0115701646301714240703100842>.
21. Das MJ, Banerjee D, Banerjee A, Muchahary S, Sinha S, Gogoi D, Chattopadhyay P, **Dasgupta S**, (2024) Deka SC. Safety and antidiabetic activity of *Lagenaria siceraria* (Molina) Standl. juice in streptozotocin-induced diabetic rats. *Journal of Ethnopharmacology* 319(1): 117111. [DOI: 10.1016/j.jep.2023.117111]
22. Dash M, Kurmi A, Meher P, Satapathy SS, **Namsa ND** (2024). Codon usage in conserved sites is more biased compared to variable sites in the SARS-CoV-2 genome. *International Journal of Bioinformatics Research and Applications*, 20(1): 42 – 60.
23. Dash M, Meher P, Aditya Kumar, Satapathy SS, **Namsa ND** (2024). High frequency of transition to transversion ratio in the stem region of RNA secondary structure of untranslated region of SARS-CoV-2. *PeerJ*. 12:e16962.
24. Hazarika Z and **Jha AN** (2024). Structural and functional premise of transport protein transthyretin in the sight of silver and zinc oxide nanoparticles through atomistic simulations. *Inorganica Chimica Acta*, 563: 121923 [10.1016/j.ica.2024.121923](https://doi.org/10.1016/j.ica.2024.121923)
25. Imkongyanger, Richa K, Lotha TN, Ao K, Rudithongru L, Nakro V, Ritse V, **Namsa ND**, Pankaj PP, Sinha UB, Jamir L (2024). Sustainable Synthesis of Guanidine Derivatives and Computational Assessment of their Antidiabetic Efficacy. *Endocrine, metabolic & immune disorders drug targets*, July 2. doi:10.2174/0118715303287962240621053459.
26. **Jha AN** (2023). Computational approaches to build therapeutic paradigms targeting genes, proteins and pathways against neglected tropical diseases (NTDs). *Frontiers in Genetics*, 14: 1183034, [10.3389/fgene.2023.1183034](https://doi.org/10.3389/fgene.2023.1183034)
27. **Jha AN**, Sandeep Swargam, Indu Kumari “Systems Biology, Bioinformatics and Livestock Science” (Bentham Science Publishers) 2024 (ISBN: 978-981-5165-62-3)
28. Kakati H, Giri S, Patra A, Taye SJ, Agarwalla D, Baruah H, Choudhary G, Kalita B, **Mukherjee AK** (2023). A retrospective analysis of epidemiology, clinical features of envenomation, and in-patient management of snakebites in a model secondary hospital of Assam, North-east India. *Toxicon* 230: 107175. [10.1016/j.toxicon.2023.107175](https://doi.org/10.1016/j.toxicon.2023.107175).
29. Konwar K, Kaushik S.D., Babu P.D., Chaturvedi, A., Kumar, D., Chakraborty, R., **Mukhopadhyay, R.**, Sharma, P., Lodha, S., Sen, D., P & Deb, P (2024). Integrative Modulation of Magnetic Resonance Transverse and Longitudinal Relaxivity in a Cell-Viable Bimagnetic Ensemble, γ -Fe₂O₃@ZnFe₂O₄. *Langmuir*, 40, 3, 1793–1803.

30. Konwar, K., Bora, M., Kaushik, S.D., Chaturvedi, A., Kumar, D., Dutta, A., **Mukhopadhyay, R.**, Babu, P. D., Sharma, P., Lodha, S., Sen, D., Ajayan P.M. and Deb, P (2023). Ni_{1-x}Zn_xFe₂O₄@CoO (x = 0.25 and 0.50) Nanoparticles for Magnetic Resonance Imaging. *ACS Applied Nano Materials*, 6, 21, 20440-20457.
31. **Kumar A**, Kumar S, Bhuyan R, Meena SR, Yella VR, Bioinformatics and Functional Genomics, 3ed (An Indian Adaptation). Wiley, India, 2022. ISBN: 9789354641633
32. Kumari P, Mamud A and **Jha AN** (2023). Review on the Drug Intolerance and Vaccine Development for the Leishmaniasis. *Current Drug Targets*; 24: 1023-1031. [10.2174/0113894501254585230927100440](https://doi.org/10.2174/0113894501254585230927100440)
33. Lotha TN, Richa K, Sorhie V, Ketiyala NV, Imkongyanger RV, Rudithongru L, **Namsa ND** (2024). Jamir L. Environmentally benign synthesis of unsymmetrical ureas and their evaluation as potential HIV-1 protease inhibitors via a computational approach. *Mol Divers*. 28(2):749-763.
34. Madhubala D, Patra AK, Khan MR, **Mukherjee AK** (2024). Phytomedicine for neurodegenerative diseases: The road ahead. *Phytotherapy Research* 38: 2993-3019. <https://doi.org/10.1002/ptr.8192>
35. Mazumder S, Sinha A, Ghosh S, Sharma GC, Prusty BM, Manna D, Pal D, Pal C, **Dasgupta S.** (2023). Leishmania LPG interacts with LRR5/LRR6 of macrophage TLR4 for parasite invasion and impairs the macrophage functions. *Pathogens and Disease* 81, ftad019 [DOI: 10.1093/femspd/ftad019]
36. Naga R, Poddar S, Bhattacharjee A, Kar P, Bose A, **Mattaparthi VSK** (2023), Mukherjee O, and Saha S. Structural analysis of human ATE1 isoforms and their interactions with Arg-tRNA Arg. *Journal of Biomolecular Structure and Dynamics*, 42(14): 7554–7573. <https://doi.org/10.1080/07391102.2023.2240449>
37. Quraishi S, Saha D, Kumari K, **Jha AN** and Roy AS (2024). Non-covalent binding interaction of bioactive coumarin esculetin with calf thymus DNA and yeast transfer RNA: A detailed investigation to decipher the binding affinities, binding location, interacting forces and structural alterations at a molecular level. *International Journal of Biological Macromolecules*; 257: 128568. [10.1016/j.ijbiomac.2023.128568](https://doi.org/10.1016/j.ijbiomac.2023.128568)
38. Rather, M. A., Gupta, K., Gupta, A. K., Mishra, P., Qureshi, A., Dutta, T. K., ... & **Mandal, M** (2023). Phytochemical analysis and demonstration of antioxidant, antibacterial, and antibiofilm activities of ethnomedicinal plants of north east India. *Applied Biochemistry and Biotechnology*, 195(5): 3257-3294.
39. Ray S, Kumar P, **Mandal M**, Antimicrobial Peptides from Lactic Acid Bacteria: Diversity, Biosynthesis and Applications. Springer, 2024. ISBN 978-981-97-3412-2
40. Roy S, Halder M, Ramprasad P, **Dasgupta S**, Y. Singh, D. Pal (2023). Oxidized-pullulan exhibits potent antibacterial activity against *S. aureus* by disrupting its membrane integrity. *International Journal of Biological Macromolecules*, 249: 126049. [DOI: 10.1016/j.ijbiomac.2023.126049]
41. Roy, B. S., Singha, J., Goswami, S., & **Saikia, J. P** (2023). Spectral Change of Curcumin in DMSO–NaOH Solution after Exposure to Air. *Russian Journal of General Chemistry*, 93(10): 2672-2676.

42. Saha D, Borah NJ and **Jha AN** (2023). Molecular scaffold recognition of drug molecules against essential genes of *Leishmania donovani* using biocomputing approach. South African Journal of Botany, 162: 52-63. [10.1016/j.sajb.2023.08.067](https://doi.org/10.1016/j.sajb.2023.08.067)
43. Sarmah, D., Borah, M., **Mandal, M.**, & Karak, N (2024). Swelling induced mechanically tough starch–agar-based hydrogel as a control release drug vehicle for wound dressing applications. *Journal of Materials Chemistry B*, 11(13): 2927-2936.
44. Sharma B, and **Mattaparthi VSK** (2023). Prediction of interface between regions of varying degrees of order or disorder in intrinsically disordered proteins from dihedral angles. *Journal of Biomolecular Structure and Dynamics*. <https://doi.org/10.1080/07391102.2023.2294837>.
45. Singha, J., & **Saikia, J. P** (2024). Optimisation of garlic mustard oil macerate with respect to its antifungal activity against *Candida albicans* MTCC 183 and in-silico molecular docking of the volatile compounds with N-myristoyltransferase. *Natural Product Research*, 1-8.
46. Srivastava V, Naik B, Godara P, Das D, **Mattaparthi VSK** (2024). and Prusty D. Identification of FDA-approved drugs with triple targeting mode of action for the treatment of monkeypox: a high throughput virtual screening study. *Molecular Diversity*, 28:1093-1107. <https://doi.org/10.1007/s11030-023-10636-4>.
47. Talukdar A, **Doley R** (2024). Identification of poorly immunodepleted phospholipase A2 (PLA2) proteins of Bungarus fasciatus venom from Assam, India and evaluation of Indian polyvalent antivenom using third. *Toxicon* 239: 107617. <https://doi.org/10.1016/j.toxicon.2024.107617>
48. Thakur S, Giri S, Lalremsenga HT, **Doley, R** (2024). Indian green pit vipers: A lesser-known snake group of north-east India. *Toxicon*, 107689. <https://doi.org/10.1016/j.toxicon.2024.107689>
49. Thakur S, Yasmin R, Malhotra A, Lalremsanga HT, Santra V, Giri S, **Doley, R** (2024). Isolation and Functional Characterization of Erythrofibrase: An Alfa-Fibrinogenase Enzyme from Trimeresurus erythrurus Venom of North-East India. *Toxins* 16 (4): 201. [10.3390/toxins16040201](https://doi.org/10.3390/toxins16040201)
50. Yasmin R, Thakur S, Blotra A, Sahu S, Vasudevan K, Reza MA, **Doley R** (2023). Proteome analysis of *Daboia russelii* venom, a medically important snake from the Indian sub-continent *Toxicon* 237: 107532. <https://doi.org/10.1016/j.toxicon.2023.107532>

Book Chapters

1. Hazarika Z, Hazarika U, Sharma B and **Jha AN**. Importance and Potential Applications of Nanobiotechnology and Systems Biology for Livestock Science in the edited book entitled *Systems Biology, Bioinformatics and Livestock Science*, Bentham Science Publisher 2023 (ISBN: 978-981-5165-62-3)
2. Hojaisa, S. and **Jha AN**. Databases and Tools for Microbial Genome and Human Microbiome Studies in the edited book entitled *Industrial Microbiology and Biotechnology*, Springer 2023 (ISBN: 978-981-99-2815-6)

3. Rai, AK., **Borah, P.**, & Kataki, A. C. (2023). Molecular profiling of Gynaecological Cancer and breast Cancer. In Fundamentals in Gynaecologic malignancy (pp. 9-24). Singapore: Springer Nature Singapore.

Conference Proceedings

Pallabi P, Bhattacharyya DK, and **Barah P.** "Identification of Potential Prognostic Biomarkers for ESCC Using Single-Cell RNA Sequencing Data Analysis." International Conference on Pattern Recognition and Machine Intelligence. 2023.

Seminars/Conferences/Workshops/Symposia Attended

Name of Faculty	Purpose of Attending (Paper presentation/ Participation/Session Chairing/Chief Guest, etc)	Title of Event	Date	Organizer and Venue
Dr. S. Dasgupta	Paper Presentation	International Conference on Biomaterials and Health Care, BioHeal-2023	13-16 April, 2023.	Organized by the "SINDURDA VIVEKANAND A INSPIRATION CENTER" which was held at Parmarth Niketan Ashram, Rishikesh, Uttarakhand, India
Dr. Nima D. Namsa	Participation	A Joint India (NECTAR) – Japan (AIST) Symposium, PIKNIKH (Platform for Innovating Knowledge to International Know How) on “Nutraceutical Interventions for Stress, Aging, and Cancer: Science and Technology to	27 February, 2024	Conference room, NECTAR in the premises of Survey of India Campus, Bonnie Brae Estate, Barik Point, Shillong, Meghalaya

		Product Development”		
Dr. Pankaj Barah	Represented Tezpur University at the workshop on "Quality Assurance in Higher Education in North East India,"	"Quality Assurance in Higher Education in North-East India,"	21-22 March, 2024.	NIEPA and Gauhati University
Dr. J. P. Saikia	Training	Training under Faculty Development Program on Academic Writing and Publication	25-31 October, 2023	Malaviya Mission Teacher Training Centre, Tezpur University

Talks by the Faculty Members Abroad and in India

Name of Faculty Member	Title of the Talk	Title of the Event	Date	Organizer and Venue
Dr. S. Dasgupta	A small molecule potent IRAK4 inhibitor attenuates LPS-induced inflammation in macrophages	International Conference on Biomaterials and Health Care, BioHeal-2023	15 April, 2023.	Organized by the "SINDURD A VIVEKANANDA INSPIRATION CENTER" which was held at Parmarth Niketan Ashram, Rishikesh, Uttarakhand, India

Dr. A N Jha	Structural and functional aspects of transport protein complexed with nanSo-particle	National Seminar on Nanotechnology in Biotherapeutics: Advancement in Drug Discovery, Development and Delivery Systems	16 November, 2023	Department of Pharmaceutical Sciences and Center for Biotechnology and Bioinformatics, Dibrugarh University
Dr. A N Jha	Investigating protein structure and function using molecular dynamics	International Workshop on Computer Simulation Methods (IWCSM-2023)	16-20 October, 2023	NIT Mizoram, Mizoram
Dr. A N Jha	Investigating protein structure and function using MD simulations	Hands-on Training in Advanced Bioinformatic Techniques in Molecular Biology	7-12 March, 2024	Department of Zoology, University of Jammu, Jammu
Dr. Nima D. Namsa	Challenges and opportunities in drug discovery from medicinal plants	One Day National Conference on “Frontiers in Chemical and Pharmaceutical Sciences for the Development of Novel Therapeutics-2024” in collaboration with the Association of Chemistry Teachers (ACT) and Rangapara College.	16 February, 2024	The School of Pharmaceutical Sciences, GCU Tezpur campus, Dekargaon, Tezpur 784501, Sonitpur, Assam
Dr. Nima D. Namsa	Immunoinformatics mapping of epitopes in the 56-kDa type-specific	Frontiers in Immunology: A	05-08 October, 2023	Indian Immunology Society, JL

	protein of Orientia tsutsugamushi and development of chimeric antigens for rapid diagnosis of scrub typhus	gateway to healthcare		Auditorium AIIMS New Delhi
Dr. Pankaj Barah	Conducted a technical session on "OMICs and P4 Medicine" during a workshop	OMICs workshop	8 March, 2024	University of Science and Technology, Meghalaya
Dr. Pankaj Barah	Delivered a talk and conducted a hands-on session	National Workshop on 'RNA-SEQ Data Analysis'	1 March, 2024	Gauhati University.
Dr. Pankaj Barah	On National Science Day, the North East Regional Level Science Exhibition (NERLSE) was organized	inScignis	28 February, 2024	INYAS and TUSC
Dr. Pankaj Barah	Delivered an invited talk	Annual day function of Government College of Teacher Education (CTE - Tezpur), Sonitpur, Assam,	27 January, 2024.	Government College of Teacher Education (CTE - Tezpur)
Dr. Pankaj Barah	Organized a Science Awareness and Career Consultation Camp	Supported by INYAS in collaboration with the Students Science Council at Tezpur University,	20 January, 2024	Sankardev Shiksha Niketan, Gohpur, Assam.
Dr. Pankaj Barah	Presented an invited talk	National symposium "Modelling and Machine Learning	27 December, 2023	Centre of Excellence for

		Approaches for Chemoinformatics and Drug Discovery"		Advanced Computation and Data Sciences at CSIR – NEIST, Jorhat.
Dr. Pankaj Barah	Presented an invited talk	International Conference on Advanced Nanomaterials and Nanotechnology (ICANN2023)	29 November – 1 December, 2023.	IIT Guwahati
Dr. Pankaj Barah	Chaired a session	Mid-Year Meeting and Technical Symposium (STS-2023) Indian National Young Academy of Sciences (INAYAS)	15-17 September, 2023.	IIT ISM Dhanbad, Jharkhand,
Prof. Robin Doley	Haemathrin a thrombin inhibitor of Haemaphysalis bispinosa is proteolytically processed by thrombin for loss of function' (Oral)	12 th Meeting of the International Proteolysis Society	23-29 June, 2023	International Proteolysis Society, National University of Singapore, Singapore
Dr. R. Mukhopadhyay	Basics of Genomics Proteomics and Molecular Diagnostic Techniques	PG Guest Lectures on Medical Biotechnology and Genetics	27 February, 2024	Lokopriya Gopinath Bordoloi Regional Institute of Mental Health, Tezpur
Dr. R. Mukhopadhyay	Nobel prize on Physiology or Medicine 2023	Nobel Lecture Series 2023	22 November, 2023	Tezpur University

Dr. R. Mukhopadhyay	Importance of Molecular Biology Techniques in the Present Era	Workshop on “Application of Tools and Techniques of Molecular Biology	06 November, 2023	Darrang College, Tezpur
Dr. Venkata Satish Kumar Mattaparthi	Molecular Dynamics Simulation approach	DBT-sponsored National level Hands on Training on “Fundamentals of Bioinformatics, Drug Discovery and Molecular Dynamics Simulation	2-9 January, 2024	Bioinformatics Centre, Department of Zoology, Gauhati University
Dr. Venkata Satish Kumar Mattaparthi	Computational investigation on conformational ensembles of A30G α -Synuclein in its membrane bound state and in free solution that causes familial Parkinson’s Disease	National Conference on Recent trends in Biosciences, Biotechnology and Bioinformatics (RTBBB-2023)	21-22 November, 2023	P.G. Department of Botany, Berhampur University, Odisha

Other Important Activities of the Department

1. Department organized “International symposium on Plant-microbe interaction” on 24-25th November, 2023.
2. Department celebrated DNA Day 2023 on 25th April, 2023.

Number of Students Qualified in NET-JRF/GATE/SLET

Name of Qualifying Examination	Number of Qualified Students	Academic Programme
UGC-JRF	2	MSc
CSIR-JRF	1	MSc
NET-LS	1	MSc
GATE	13	MSc and Int. MSc
DBT-JRF	2	MSc

Notable Placements

Name of Student	Academic Programme	Placement Designation	Company/ Organization	Type of Selection (On-Campus/ Off-Campus)
Sauranil Guha	MSc	Project Associate	CSIR-IGIB	Off-Campus
Varhsa Mahabal	MSc	Project Associate	CSIR-IGIB	Off-Campus
Rajeev Barala	MSc	Project Associate	Azim Premji Foundation	Off-Campus
Antarleena Choudhury	MSc	Teacher	Aakash BYJU's	Off-Campus
Sourav Khan	MSc	Teacher	Aakash BYJU's	Off-Campus
Anjali Tiwari	MSc	Teacher	Aakash BYJU's	Off-Campus
Shiba Das	MSc	Healthcare	IQVIA, Bangalore	Off-Campus
Devendra Singh Sengar	MSc	Project Associate	IIT-Guwahati	Off-Campus
Biki Verma	MSc	Biology Teacher	Azim Premji Foundation	Off-Campus
Krishanu Choudhury	Int. MSc.	Project Associate	AIIMS, New Delhi	Off-Campus
Nayan Jyoti Borah	Int. MSc.	Project Associate	Tezpur University	On-Campus

Enrollment of Students in Other Institutes for Higher Studies

Name of Student	Academic Programme (in TU)	Name of other Institute	Enrolled Academic Programme
Bahnishikha Roy	Int. MSc	IISER Pune	PhD
Rajni Kumari	MSc	IISER, Bhopal	PhD
Shreya Bhattacharya	MSc	IIT Delhi	M Tech

Rachayita Bharadwaj	MSc	IIT Delhi	M Tech
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DEPARTMENT OF PHYSICS

About the Department

Twenty-five years since its commencement in January 1998, the Department of Physics has stridden out not only in its post-graduation teaching but also in new frontiers of research. To keep pace with the advancement in science and technology, new special papers have been included with adaptation to new developments within the course content. The areas of specialization for post-graduation are Condensed Matter Physics, Electronics and Photonics, High Energy Physics, and Nano Science and Technology. To develop the students from the graduate level, the Department also started an Integrated M.Sc. in Physics in 2009. Apart from this, keeping in mind the need of teachers at the school level, the Department has also been running a B.Sc., B.Ed. programme since July 2011.

Academic Programmes and Student Intake

Academic Programme	Student Intake
<i>M.Sc. Physics</i>	38
<i>Integrated M.Sc. in Physics</i>	25
<i>Integrated B.Sc.-B.Ed. in Physics</i>	22
<i>Ph. D. in Physics</i>	Variable

Thrust Research Areas of the Department

- Condensed Matter Physics
- Electronics and Communications
- Photonics
- High Energy
- Plasma Physics
- Astrophysics

Major Facilities/Equipment available

- FESEM
- TRPL
- X-RD
- UV-Vis
- SEM

Faculty Members

Designation	Name	Highest Qualification (Institute)	Specialization	email> @tezu.ernet.in	Date of holding the current position
	Jayanta Kumar Sarma	Ph.D. (G.U)	High Energy Physics	jks	24/09/2009

<i>Professor</i>	Nidhi Saxena Bhattacharyaa	Ph.D. (D.U)	Microwave Communications	ndas	05/12/2012
	Nilakshi Das	Ph.D. (G.U)	Plasma Physics	nidhi	05/12/2012
	Gazi Amin Ahmad	Ph.D. (G.U)	Optoelectronics	gazi	11/09/2013
	Dambarudhar	Ph.D. (T.U)	Soft Condensed Matter	best	03/09/2014
	Mahanta				
	Pritam Deb	Ph.D. (J.U)	Mesoscopic Physics; Magnetism in low dimension; Molecular imaging; Surface Science; Electronic structure calculation	pdeb	21/03/2017
	Mrinal Kumar Das	Ph.D. (G.U)	High Energy Physics	mkdas	05/12/2015
	Pabitra Nath	Ph.D. (G.U)	Photonics	pnath	05/12/2015
	Pralay Karmakar	Ph.D. (G.U)	AstroPlasma	pralay	5/12/2015
	N. G. K. Francis (on Lien)	Ph.D. (G.U)	High Energy Physics	francis	18/11/2019
	Rajib Biswas	Ph.D. (D.U)	Optoelectronics	rajib	29/09/2022
	Rupjyoti Gogoi	Ph.D. (G.U)	AstroPhysics	rgogoi	24/08/2011
	Shyamal Kumar Das	Ph.D. (IISc.)	Material Science	skdas	03/01/2013
	Ritupan Sarma	Ph.D. (IISc.)	Nonlinear dynamics	ritupan	31/03/2017
	Moon Moon Devi	Ph.D. (TIFR)	Neutrino and Astroparticle Physics	deimm	17/05/2017
	Jugal Lahkar	Ph.D. (GU)	QCD and Phenomenology	srinayan	01/12/2021
	Diana Thongjaomayu m	Ph.D. (NEHU)	Non equilibrium statistical mechanics	dianat	03/01/2022

Officers and Staff Members

Designation	Name	email	Date of holding the current position
<i>Technical Officer</i>	Kishor Boruah	kiba	23/07/1998
<i>Technical Assistant</i>	Palash Dutta	duttapk	12/10/2015
	Mrinmoy Gohain	mgohain	01/08/2011
	Dhruba Deka	ddeka	01/07/2013
	Biju Boro	bbiju	31/07/2012

<i>Upper Divisional Clerk</i>	Umesh Patir	patir	27/03/2007
<i>MTS</i>	Narayan Sarma	narayan	01/01/1995

Major Research and Development Findings

Faculty/ Researcher	Salient Research Findings
Abinash Medhi, Moon Moon Devi	<ul style="list-style-type: none"> Scalar Non Standard interactions of neutrinos significantly impacts the physics sensitivities of various neutrino experiments. Scalar Non Standard interactions is an interesting portal to explore new physics beyond Standard Model.
Arnab Sarker, Moon Moon Devi	Machine learning algorithm can be applied for improving the particle identification and tracking in different particle detectors.
Arnab Sarker, Abinash Medhi, Moon Moon Devi	Impact of Lorentz Invariance Violence on neutrino oscillations via long baseline experiments.

Research Projects (both Ongoing and New)

Project Title	Funding Agency	Amount (in INR)	Duration	Investigator(s)
Roads to statistical equilibrium	SERB	28,76,632	3 years Starting from 16 Oct 2023	Dr Diana Thongjaomayum (PI)
Neutrino Astrophysics with next generation Water Cherenkov Detectors (CRG/2021/002961)	DST-SERB, India	3090494.00	3 years	PI: Dr. Sovan Chakraborty Department of Physics, IIT Guwahati, Assam, India. Co-PI: Dr. Moon Moon Devi Department of Physics, Tezpur University, Tezpur, Assam, India
R and D for probing neutrino properties with hyper-kamiokande detector	India-Japan Cooperative Science Programme 2021 (JCSP) DST-JSPS	13,00,000.00	2 years	Indian PI: Dr. Moon Moon Devi Tezpur University Department of Physics, Napaam, Tezpur, Assam, India Japanese PI: Prof. Takashi Kobayashi High Energy Accelerator

				Research Organization KEK, J-PARC Center, Japan
Spin Dynamics investigation and structural co-relation of the two-dimensional primary nanosystem.	UGC-DAE-CSR, Govt. of India.	6,84,360	2022-2024	Prof. Pritam Deb

Publications by Faculty and Staff Members

Publication of Articles in UGC-CARE Listed Group I/Group II Journals

- Baishya, R., Phukon, H., Kalita, D., Barman, S.R., Das, S.K.(2024). Investigation on Al³⁺ ion storage in Bi₂MoO₆ and Bi₂WO₆ for rechargeable aqueous aluminum-ion battery. *Journal of Energy Storage*, 94: 112541
- Baishya, R., Sarmah, D., Mahanta, D., Das, S.K.(2023). Aqueous electrolyte-mediated reversible K⁺ ion insertion into graphite. *Physical Chemistry Chemical Physics*, 2023, 25(36): 24298–24302
- Baruah, K., Nandi, S., M., P., ... S., R., Deb, P.(2024). A versatile non-precious metal based electrode material endowed by layer-on-layer structure for methanol oxidation and supercapacitor applications. *Journal of Energy Storage*, 84: 110867.
- Begum, F., Chutia, H., Bora, M., Deb, P., Mahanta, C.L.(2024). Characterization of coconut milk waste nanocellulose based curcumin-enriched Pickering nanoemulsion and its application in a blended beverage of defatted coconut milk and pineapple juice. *International Journal of Biological Macromolecules*, 259: 129305.
- Bezbaruah, T., Karmakar, P.K.(2024). Nonlinear dust-acoustic wave dynamics in nonthermal Saturnian E-ring with negative ion moderation. *Chinese Journal of Physics*, 89: 1611–1623
- Biswas, S., Devi, Y.D., Sarma, D., ... Namsa, N.D., Nath, P. (2023). Detection and analysis of rotavirus in clinical stool samples using silver nanoparticle functionalized paper as SERS substrate. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, 295: 122610
- Bora, H., Khatoon, R., Misra, R., Gogoi, R.(2024). Estimating the jet power from Broadband SED modelling of Mkn 501 for different particle distributions. *Monthly Notices of the Royal Astronomical Society*, 529(4): 4433–4441
- Bordoloi, O.P., Ananthamoorthy, B., Shalima, P., ... Shchekinov, Y.A., Gogoi, R. (2024). AstroSat/UVIT Study of the Diffuse Ultraviolet Radiation in the Dwarf Galaxy Holmberg II. *Publications of the Astronomical Society of the Pacific*, 136(7): 074101
- Boruah, B.B., Gautam, N., Das, M.K.(2024). Neutrinoless double beta decay and sterile neutrino dark matter in extended left right symmetric model. *Journal of Physics G: Nuclear and Particle Physics*, 51(4): 045002
- Chattopadhyay, D.S., Devi, M.M., Dighe, A., ... Pramanik, D., Raut, S.K. Sterile Neutrinos: Propagation in Matter and Mass Ordering. *Springer Proceedings in Physics*, 304 SPPHY:1156–1158

- Chattopadhyay, D.S., Devi, M.M., Dighe, A., ... Pramanik, D., Raut, S.K.(2024). Unlocking the Light(er) Sterile Neutrino Sector: Matter Effects and Mass Ordering. *Proceedings of Science*, 441: 283
- Chattopadhyay, D.S., Devi, M.M., Dighe, A., ... Pramanik, D., Raut, S.K.(2023). Sterile neutrinos: propagation in matter and sensitivity to sterile mass ordering. *Journal of High Energy Physics*, 2023(2): 44
- Choudhury, J., Bhagawati, A., Sarma, J., Das, N.(2023). Ion acceleration from a multispecies nanostructured target using a high-intensity laser: a simulation study. *Plasma Physics and Controlled Fusion*, 65(8): 085007
- Choudhury, J., Bhagawati, A., Sarma, J., Das, N.(2024). 100 MeV protons from nanostructured hemispherical target using PIC simulations. *New Journal of Physics*, 26(2): 023058
- Das, M., Karmakar, P.K.(2024). Dynamics of pulsational mode in the EiBI gravity fabric. *Chinese Journal of Physics*, 87: 232–245
- Das, P., Pegu, R., Bhattacharya, S.S., Nath, P.(2023). Fluorescence-Based Accurate Estimation of Chlorophyll in Tea Leaves Using Smartphone. *IEEE Sensors Journal*, 23(13):14864–14871
- Das, S., Karmakar, P.K.(2024). Solar GES-structure modified with EiBI gravity. *Chinese Journal of Physics*, 91: 157–166.
- Dasgupta, S., Karmakar, P.K.(2023). A theoretical study of heavy nucleus-acoustic waves in white dwarf core environments. *Pramana - Journal of Physics*, 97(4): 148.
- Dutta, B., Gogoi, N., Das, N.(2024). Influence of a transverse magnetic field on wakefield oscillations around a charged dust grain in complex plasma. *Physics of Plasmas*, 31(6): 063705.
- Dutta, S., Karmakar, P.K. (2024). Sheath plasma instability in inverted fireballs. *Chaos, Solitons and Fractals*, 186: 115259.
- El-Monier, S.Y., El-Bayoumi, E.M., Karmakar, P.K., Atteya, A.(2024). Collision dynamics of magnetoacoustic waves in a spin-1/2 dense quantum degenerate plasma: Analysis of overtaking interactions. *Chinese Journal of Physics*, 88:810–826.
- Gogoi, J., Sarma, L., Das, M.K. (2024). Leptogenesis and dark matter in minimal inverse seesaw using A4 modular symmetry. *European Physical Journal C*, 84(7): 689.
- Gogoi, L., Deb, P. Electrically controlled layer-dependent localized spin flipping in Janus CrSTe. *Physical Review B*, 109(17): 174439.
- Gogoi, N., Das, N.(2023). Propagation characteristics of dust density waves in an external magnetic field. *Physica Scripta*, 98(7): 075604.
- Hazarika, A., Das, M., Karmakar, P.K.(2024). Polytropic spherical astrocsmic fluid stability in the EiBI gravity with strong collective correlative effects. *Chinese Journal of Physics*, 89: 1431–1440
- Kakoti, A., Boruah, B.B., Das, M.K.(2023). Minimal left-right symmetric model with A4 modular symmetry. *International Journal of Modern Physics A*, 38(28): 2350150.
- Kakoti, A., Das, M.K.(2024). dependence of leptogenesis in minimal Left-Right Symmetric Model with different strengths of Type-II seesaw mass. *Journal of High Energy Physics*, (3): 132.
- Karmakar, P.K., Dutta, J.(2024). Athermal pulsational mode dynamics with negative ions. *Chinese Journal of Physics*, 2024, 90:726–741.
- Khan, N., Das, P., Das, M.K.(2024). A Minimal Dark Matter Model with Vector Like Fermions
- Khan, N., Das, P., Das, M.K.(2024). Three Higgs-Doublet Dark Matter Model. *Springer Proceedings in Physics*, 2024, 304 SPPHY:620–621.

- Konwar, K., Bora, M., Kaushik, S.D., ... Ajayan, P.M., Deb, P. (2023). Ni_{1-x}Zn_xFe₂O₄@CoO (x = 0.25 and 0.50) Nanoparticles for Magnetic Resonance Imaging. *ACS Applied Nano Materials*, 6(21): 20440–20457.
- Konwar, K., Kaushik, S.D., Babu, P.D., ... Sen, D., Deb, P. (2024). Integrative Modulation of Magnetic Resonance Transverse and Longitudinal Relaxivity in a Cell-Viable Bimagnetic Ensemble, γ -Fe₂O₃@ZnFe₂O₄, *Langmuir*, 40(3): 1793–1803.
- Medhi, A., Devi, M.M., Dutta, D. (2024). Exploring New-Physics Effects of Scalar NSI at DUNE, T2HK and T2HKK. *Springer Proceedings in Physics*, 304 SPPHY: 910–912.
- Medhi, A., Dutta, D., Devi, M.M. (2024). Probing the Effects of Scalar Non Standard Interactions on the CP-Violation Sensitivity at DUNE. *Springer Proceedings in Physics*, 304 SPPHY: 886–888
- Medhi, A., Sarmah, P., Devi, M.M., Chakraborty, S., Bose, D. (2024). Probing Neutrino Mass Ordering with Supernova Neutrinos. *Springer Proceedings in Physics*, 304 SPPHY: 1012–1014.
- Mohanty, S., Deb, P. (2024). Magnetocrystalline anisotropy energy and spin hall current of 1T-VSe₂/1H-MoSe₂ vdW magnetic weyl semimetal. *AIP Conference Proceedings*, 2995(1): 020101
- Mohanty, S., Deb, P. (2024). Sign-flipping intrinsic anomalous Hall conductivity with Berry curvature tunability in a half-metallic ferromagnet NbSe₂-VSe₂ lateral heterostructure. *Nanoscale*, 16(19): 9447–9454
- Mohanty, S., Gao, W., Deb, P. (2023). Augmented and quenched local moments in a van der Waals itinerant moiré ferromagnet. *Physical Review B*, 2023, 108(5): 054433.
- Nakagawa, M., Tong, G., Nath, P., Citterio, D. Microoptics Integrating smartphone applications reader with paper-based analyser for accurate estimation of nickel in water. *28th Microoptics Conference*, MOC 2023.
- Nandi, S., Goswami, T.K., Das, S.K. (2023). Al³⁺ ion storage in LiMnPO₄ for rechargeable aqueous aluminum-ion battery. *Materials Letters*, 346: 134513.
- Nandi, S., Phukon, H., Kalita, D., Das, S.K. (2023). Copper tetrathiovanadate (Cu₃VS₄): a newly emerging electrode for rechargeable aqueous aluminum-ion batteries, *Dalton Transactions*, 53(3): 898–902.
- Nandi, S., Yan, Y., Yuan, X., ... Li, Y., Das, S.K. (2023). Investigation of reversible metal ion (Li⁺, Na⁺, Mg²⁺, Al³⁺) insertion in MoTe₂ for rechargeable aqueous batteries. *Physical Chemistry Chemical Physics*, 2023, 25(20): 13833–13837.
- Pan, H., Singh, A.K., Zhang, C., ... Deb, P., Gao, W. (2024). Room-temperature tunable tunneling magnetoresistance in Fe₃GaTe₂/WSe₂/Fe₃GaTe₂ van der Waals heterostructures, *InfoMat*, 6(6): e12504.
- Pan, H., Zhang, C., Shi, J., ... Liu, Z., Gao, W. (2023). Room-Temperature Lateral Spin Valve in Graphene/Fe₃GaTe₂ van der Waals Heterostructures. *ACS Materials Letters*, 5(8): 2226–2232.
- Rahman, A., Das, S.K. (2024). An asymmetric Al³⁺ ion supercapacitor with vanadium oxy-acetylacetonate and polyaniline electrodes. *Materials Letters*, 360: 135982
- Rahman, A., Sarmah, D., Das, S.K. (2023). A study on Al³⁺ ion capacitor with MoO₃ nanorod and aqueous gel electrolyte. *Ionics*, 29(10): 4253–4261.
- Roy, K., Sarga, P.K., Bhattacharyya, S., Das, S.K. (2024). Unveiling the role of electrolyte to promote enhanced proton storage stability in WO₃ for energy storage. *Materials Chemistry and Physics*, 320: 129461

- Saikia, J.B., Bhagobaty, R.K., Deb, P.(2024). Crafting Market Opportunities through GIs: A Review on Spices of North-East India. *Journal of Intellectual Property Rights*, 29(4): 300–313.
- Saikia, K., Deb, P.(2024) Intellectual Properties Derived in Space Exploration: Issues and Scopes. *Journal of Intellectual Property Rights*, 29(2):127–132.
- Sarker, A., Bhatt, A., Devi, M.M.(2024). Deep Neural Network Based Machine Learning Algorithm for Muon Track Reconstruction. *Springer Proceedings in Physics*, 304 SPPHY:889–891.
- Sarker, A., Medhi, A., Bezboruah, D., Devi, M.M., Dutta, D. (2024). Impact of scalar NSI on the neutrino mass ordering sensitivity at DUNE, HK and KNO. *Journal of High Energy Physics*, 2024(6): 128.
- Sarker, A., Medhi, A., Devi, M.M.(2023). Investigating the effects of Lorentz Invariance Violation on the CP-sensitivities of the Deep Underground Neutrino Experiment. *European Physical Journal C*, 83(7): 592.
- Sarker, A., Medhi, A., Devi, M.M.(2024). Impact of Lorentz Invariance Violation at DUNE. *Springer Proceedings in Physics*, 304 SPPHY: 892–894.
- Sarma, D., Marak, M.R., Chetia, I., Badwaik, L.S., Nath, P.(2024). AuNP decorated aegle marmelos leaf as SERS substrate for trace detection of antibiotics and machine learning based classification. *Physica Scripta*, 99(2): 026006.
- Sarma, D., Medhi, A., Mohanta, D., Nath, P.(2023). Electrochemically deposited bimetallic SERS substrate for trace sensing of antibiotics. *Microchimica Acta*, 191(1): 14.
- Sarma, D., Nath, K.K., Biswas, S., ... Ahmed, G.A., Nath, P.(2023). SERS determination and multivariate classification of antibiotics in chicken meat using gold nanoparticle–decorated electrospun PVA nanofibers. *Microchimica Acta*, 190(2): 64.
- Sarma, H., Das, N.(2024). Phonon spectra of finite dust clusters under a transverse external magnetic field. *Physics of Plasmas*, 31(6): 063704.
- Sarma, H., Sarmah, R., Das, N.(2023). Phase transition of three-dimensional finite-sized charged dust clusters in a plasma environment. *Physical Review E*, 107(3): 035206.
- Sarmah, D., Das, S.K.(2023). Elucidating the Al³⁺ ion electrochemical behaviour of LiFePO₄. *Bulletin of Materials Science*, 46(1): 43.
- Sarmah, D., Goswami, T.K., Das, S.K. (2024). Aqueous electrolyte-mediated Al³⁺ ion storage in electrochemically treated Ti₃AlC₂, *Bulletin of Materials Science*, 47(1): 23.
- Sharma, M., Deb, P.(2024). WS₂nanosheets with enhanced performances for supercapacitors. *AIP Conference Proceedings*, 2995(1): 020184.
- Sharma, M., Hussain, N., Mohanty, S., Puzari, P., Deb, P.(2023). Robust energy storage performance enabled by the interacting interface of an epitaxial hybrid nanostructure based flexible supercapacitor. *Journal of Energy Storage*, 72: 108345.
- Sharma, M., Mazumder, N., Ajayan, P.M., Deb, P. (2024) Quantum enhanced efficiency and spectral performance of paper-based flexible photodetectors functionalized with two dimensional materials. *Journal of Physics Condensed Matter*, 36(28): 283001.
- Singh, A.K., Gao, W., Deb, P. (2024). Twist Proximity-Endowed Large Figure of Merit in a Band-Modulated CrI₃/1T-MoS₂ Moiré Superlattice. *ACS Applied Materials and Interfaces*, 16(27): 35438–35446.
- Singh, A.K., Gao, W., Deb, P.(2023). Tunable long-range spin transport in a van der Waals Fe₃GeTe₂/WSe₂/Fe₃GeTe₂ spin valve. *Physical Chemistry Chemical Physics*, 26(2): 895–902.

- Talukdar, M., Sekhar Sahoo, S., Roy, D., Deb, P.(2023). Heat shrinking polymer based film reinforced with two dimensional carbon nitride with enhanced barrier and thermal properties. *Materials Letters*, 349: 134811.
- Yumnam, M., Hatiboruah, D., Mishra, R., ... Nath, P., Mishra, P.(2023).A Smartphone-based optical sensor with polyaniline label for quantitative determination of freshness of freshwater fish fillets. *Sensors and Actuators A: Physical*, 361: 114557.

Publication of Book Chapters

- Biswas, R. (2024). Outlining the Role of Vibrational Spectroscopy in Characterizing Starch. In *Advanced Research in Starch*, pages 201-212, ISBN:978-981-99-9526-4 2024. Springer Publication
- Chakraborty, I., Govindaraju, I., Pooja, N., Biswas, R., Mazumder, N. (2024). A Brief Appraisal of Nanomaterials for COVID-19. In *Smart Nanomaterials for Infectious Diseases*, pages 378-386, ISBN: 978-1-83767-082-6. RSC Publication
- Neog, A., Sarmah, H.J., Mohanta, D., Biswas, R. (2024). Advances in Few-Layered Nanoscale Transition Metal Dichalcogenides in Sensing Application, In *Nanoscale Matter and Principles for Sensing and Labeling Applications*, pages 95-116, ISBN: 978-981-99-7847-2. Springer Publication

Publication of Articles in Conference Proceedings

- Chattopadhyay, D.S., Devi, M.M., Dighe, A., ... Pramanik, D., Raut, S.K. Sterile Neutrinos: Propagation in Matter and Mass Ordering. *Springer Proceedings in Physics*, 304 SPPHY:1156–1158
- Khan, N., Das, P., Das, M.K.(2024). Three Higgs-Doublet Dark Matter Model. *Springer Proceedings in Physics*, 2024, 304 SPPHY:620–621
- Khan, N., Das, P., Das, M.K.(2024). A Minimal Dark Matter Model with Vector Like Fermions *Springer Proceedings in Physics*, 304, SPPHY: 617–619
- Kakoti, A., Das, M.K.(2024). dependence of leptogenesis in minimal Left-Right Symmetric Model with different strengths of Type-II seesaw mass. *Journal of High Energy Physics*, 2024(3): 132
- Mohanty, S., Deb, P. (2024). Magnetocrystalline anisotropy energy and spin hall current of 1T-VSe₂/1H-MoSe₂ vdW magnetic weyl semimetal, *AIP Conference Proceedings*, AIP Publishing, 2995(1).
- Medhi, A., Devi, M.M., Dutta, D. (2024).Exploring New-Physics Effects of Scalar NSI at DUNE, T2HK and T2HKK. *Springer Proceedings in Physics*, 304 SPPHY: 910–912
- Medhi, A., Dutta, D., Devi, M.M. (2024). Probing the Effects of Scalar Non Standard Interactions on the CP-Violation Sensitivity at DUNE. *Springer Proceedings in Physics*, 304 SPPHY: pp. 886–888
- Medhi, A., Sarmah, P., Devi, M.M., Chakraborty, S., Bose, D. (2024). Probing Neutrino Mass Ordering with Supernova Neutrinos. *Springer Proceedings in Physics*, 2024, 304 SPPHY: 1012–1014.
- Nakagawa, M., Tong, G., Nath, P., & Citterio, D. (2023, September). Microoptics Integrating smartphone applications reader with paper-based analyser for accurate estimation of nickel in water. In 2023 28th Microoptics Conference (MOC) (pp. 1-2). IEEE.

- Sharma, M., Deb, P. (2024). WS2 nanosheets with enhanced performances for supercapacitors, AIP Conference Proceedings, AIP Publishing, 2995(1).

Publication of Patents

Inventor(s)	Patent Title	Application/ Patent Number	Published/ Granted	Country
I. Hussain, K. Ahamad, and P. Nath	Smartphone based system for detection and measurement of chemical and biological species in liquids	515646	Granted	India
D. Rabha, and P. Nath	Methods and apparatus of multimodal microscopic imaging on a smart-Phone and OLED display illumination	523469	Granted	India
P. Nath, B.Chettry and C. Dutta	Method and system to obtain enhanced autofluorescence signal from Microbial species on a portable sensing platform	202431035472	Applied	India
P. Nath, B.Chettry	Method and system to obtain multimodal microscopic Imaging viewable on any wi-fi enabled display panel	202431059617	Applied	India
Pritam Deb	Two-Dimensional nanocomposite for Soil Health Enhancement	202431007408	Applied	India
Pritam Deb	Antimicrobial conformal coating for Perishable Food Preservation	202431002828	Applied	India

Conference/Workshop/Symposium/Seminar etc. Attended

Name of Faculty/Staff Member	Purpose of Attending	Title of Event	Date/Period	Organizer and Venue (Online/Offline)
Diana	Paper presentation	International Conference on Frontiers in Pure and Applied Physics	29-02-2024 to 02-03-2024	Department of Physics, USTM, Meghalaya
Abinash Medhi,	Poster Presentation (Title:Imprints of scalar mediated NSI	38th International Cosmic Ray Conference,2023	26 July-3 August 2023.	Nagoya University in Nagoya, Japan (Online)

Moon Moon Devi (Co-author: D. Dutta)	on long baseline experiments, Presenter: Abinash Medhi)	(ICRC2023)		
Arnab Sarker, Abinash Medhi, Moon Moon Devi	Poster Presentation (Title: Exploring the impact of LIV at Deep Underground Neutrino Experiment, Presenter: Arnab Sarker)	38th International Cosmic Ray Conference, 2023 (ICRC2023)	26 July-3 August 2023.	Nagoya University in Nagoya, Japan (Online)
Dharitree Bezboruah, Abinash Medhi, Moon Moon Devi	Poster Presentation (Title: The effect of dark non-standard interactions on the CP-phase measurement at DUNE, Presenter: Dharitree Bezboruah)	38th International Cosmic Ray Conference, 2023 (ICRC2023)	26 July-3 August 2023.	Nagoya University in Nagoya, Japan (Online)
Dharitree Bezboruah, Arnab Sarker, Moon Moon Devi (On behalf of GRAPES-3 Collaboration)	Poster Presentation (Title: Machine learning model for separation of muons from punch-through hadrons in EAS at GRAPES-3 experiment, Presenter: Dharitree Bezboruah)	38th International Cosmic Ray Conference, 2023 (ICRC2023)	26 July-3 August 2023.	Nagoya University in Nagoya, Japan (Online)
Arnab Sarker	Participation	Statistical Methods and Machine Learning in High Energy Physics	28 August 2023 to 08 September 2023	ICTS, Bangalore, India (Offline)
Dharitree Bezboruah	Participation	Statistical Methods and Machine Learning in High Energy Physics	28 August 2023 to 08 September 2023	ICTS, Bangalore, India (Offline)
M.M. Devi	Talk (Imprints of scalar mediated NSI on long baseline experiments), Poster (Exploring the impact of LIV at Deep Underground	31st International Symposium on Lepton Photon Interactions at High Energies	17-07-2023 - 21-07-2023	Monash University, Melbourne Australia

	Neutrino Experiment)			
M.M. Devi	Invited Talk	GW-EM-Nu-2023: Role of India in Multi-Messenger Astrophysics and Cosmology	22-11-2023 - 24-11-2023	TIFR, Mumbai
M.M. Devi	Working group Coordinator	Workshop in High Energy Physics Phenomenology (WHEPP XVII)	02-01-2024 - 11-01-2024	IIT Gandhinagar
M.M. Devi	Invited Talk	Aditya L1: Workshop on SUIT Science & Data Analysis	05-03-2024 - 06-03-2024	Tezpur University
M.M. Devi	Invited Talk	Underground Water Cherenkov Detectors at Kamioka	22-04-2024 - 03-05-2024	ICTS, Bengaluru
Arnab Sarker	Participation	Experimental High Energy Particle Physics School on software development (EHEP 2024)	28th Jan - 11th Feb, 2024	HBCSE, TIFR, Mumbai 400088, India (Offline)
Priyankush Deka	Participation	Experimental High Energy Particle Physics School on software development (EHEP 2024)	28th Jan - 11th Feb, 2024	HBCSE, TIFR, Mumbai 400088, India (Offline)
Dharitree Bezboruah	Participation	Experimental High Energy Particle Physics School on software development (EHEP 2024)	28th Jan - 11th Feb, 2024	HBCSE, TIFR, Mumbai 400088, India (Offline)

Invited Talk

Name of Faculty Member	Title of the Talk	Title of the Event	Date	Organizer and Venue
Dr. M. M. Devi	Underground Water Cherenkov Detectors at Kamioka	Understanding The Universe Through Neutrinos I	02-05-2024	ICTS TIFR, Bengaluru
Dr. M. M. Devi	Photodetectors for Astroparticle Physics	Aditya L1: Workshop on SUIT Science & Data Analysis	05-03-2024	Tezpur University, Assam
Dr. M. M. Devi	Particle Detectors	Invited Seminar	09-01-2014	Pandit Deendayal Energy University, Gandhinagar
Dr. M. M. Devi	Neutrino Astrophysics with Hyper-Kamiokande	GW-EM-Nu-2023: Role of India in Multi-Messenger Astrophysics and Cosmology	23-11-2023	TIFR, Mumbai
Dr. M.M. Devi	Panelist for discussion on Inclusion and diversity	31st International Symposium on Lepton Photon Interactions at High Energies hosted	19-07-2023	Monash University, Melbourne, Australia
Prof. Pritam Deb	Invited Talk	Intellectual Property Rights	26-04-2024	Dudhnoi College (Virtual mode)
Prof. Pritam Deb	Scientists Round table conference for Viksit Bharat 2047	Scientists Round table conference for Viksit Bharat 2047	19-21-07-2024	MIT World Peace University, Pune.
Prof. Pritam Deb	Invited Talk	13 th Prof. S.P Sengupta Memorial Function and one day Seminar on Multifunctional Materials: Technology & Applications	09-08-2024	C.V. RAMAN AUDITORIUM, Indian Association For the Cultivation of Science, Jadavpur, Kolkata.
Prof. Pritam Deb	Yoga for stress management, well-being and spirituality.	National Seminar on Yoga for women, peace, well-being exploring new domains.	15-06-2024	Tezpur
Prof. Pritam Deb	Member of panel Judges BioNEST IASST	FAME Biotech Hackathon 3.0	05-07-2024	Virtual
Prof. Pritam Deb	Expert	Workshop on IP Policy and Geographical Indications	12 to 13-09-2024	Assam Science Technology and Environment Council, Guwahati.
Prof. Pritam Deb	Expert	GI Mela on Joynagar Moa,	10-09-2024	Nimpith Ramkrishna Ashram, Joynagar Block,

				South 24 Parganas, West Bengal.
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Awards/Honours/Notable Achievements

Name of Awardee	Designation of Awardee	Achievement	Event/Awarded by
M.M. Devi	Faculty	SERB ITS Travel Grant File Number: ITS/2023/002253	SERB DST (ANRF)
Arnab Sarker	Research Scholar	SERB ITS Travel Grant File Number: ITS/2024/001704	SERB DST (ANRF)
Arnab Sarker	Research Scholar	CSIR Research Fellowship	CSIR-HRDG
Dharitree Bezboruah	Research Scholar	INSPIRE Fellowship	DST
M.M. Devi	Faculty	Young Scientist award- 2022, State Science Awards	ASTEC
Pritam Deb	Faculty	2 nd Global IP leadership Awards 2024	2 nd Global IP leadership Summit and Awards, India's Century Vision for IPR
Pritam Deb	Faculty	Guest of Honour for Advanced Training Program on IPR for faculties and entrepreneurs.	Administrative Staff college, Khanapara.

Number of Students Qualified in NET-JRF/SLET/GATE etc.

Name of Qualifying Examination	Number of Qualified Students	Academic Programme
SLET	01	Physics
GATE	02	Physics

Notable Placement of Students

Name of Student	Academic Programme	Placement Designation	Company/ Organization	Type of Selection (On-Campus/ Off-Campus)
Abinash Medhi	PhD	Research Associate	IIT Guwahati	Off-Campus

DEPARTMENT OF CHEMICAL SCIENCES

About the Department

The Department of Chemical Sciences was established in the year 1997, with the prime objective of creating human resources in different areas of Chemical Sciences. Initially, the Department offered a M.Sc. program in Polymer Science, which was converted to M.Sc. in Applied Chemistry from 2006 to 2009. In 2009, the department started the five-year Integrated M.Sc. in Chemistry program, and in 2010 the department again started M.Sc. in Chemical Sciences, later renamed as M.Sc. in Chemistry. In 2011 Autumn session, the Department started M. Tech. in Polymer Science and Technology and Integrated B.Sc. B.Ed. in Chemistry. The department is no longer continuing the M. Tech in polymer Sciences and the B.Sc. B.Ed. program, however the department is supporting the B.Sc. B.Ed program which is now affiliated to the Education Department. The Department has also been running a Ph.D. program covering several important areas of research in Chemical Sciences, including interdisciplinary areas.

Academic Programmes and Student Intake

Academic Programme	Student Intake
<i>5-year Integrated M.Sc. in Chemistry (4+1) NEP</i>	25
<i>2-year M.Sc. in Chemistry</i>	30
<i>Ph.D. in Chemical Sciences</i>	Variable (Present strength is 101)
<i>4-year B.Sc. B.Ed program (In collaboration with the Department of Education, Tezpur University)</i>	13

Thrust Research Areas of the Department

- ☐ Materials for Energy & Environment
- ☐ Catalysis and Organometallic Chemistry
- ☐ Medicinal and Pharmaceutical Research
- ☐ Polymer Chemistry
- ☐ Computational Chemistry

Major Facilities/Equipment available

- ☐ 400 MHz NMR spectrophotometer, Jeol
- ☐ Thermal Analyzer, Shimadzu, (FIST Funded)
- ☐ CHN Analyzer, Perkin Elmer (FIST Funded)
- ☐ FTIR spectrophotometer, PerkinElmer
- ☐ Chemisorption Analyzer, (FIST Funded)
- ☐ Micro Extruder, Thermo Fisher (FIST Funded)
- ☐ Automated Compression Press, S5 Type, Santac
- ☐ Polarizing Microscope, Olympus,
- ☐ UV-Visible Spectrophotometer, Shimadzu,
- ☐ Universal Testing Machine, 10 KN Zwick
- ☐ Rheometer, Bohlin Instruments
- ☐ High performance computational facilities
- ☐ Digital Polarimeter
- ☐ Millipore Water Purification System

- ☐ Tabletop Magnetometer
- ☐ Single Screw Laboratory Extruder
- ☐ Cyclic Voltameter
- ☐ Cyclic Voltameter with Rotating Disk Electrode
- ☐ Atomic Absorption Spectrophotometer
- ☐ Research Lab :15 Teaching Lab : 9
- ☐ Computation Facilities: Teaching Lab : 01 & Research Lab : 02

Faculty Members

Designation	Name	Highest Qualification (Institute)	Specialization	<email>@tezu.ernet.in	Date of holding the current position
	Nashreen S. Islam	Ph.D. (NEHU, Shilong)	Inorganic Chemistry	nsi	12/06/2004
	Robin Kumar Dutta	Ph.D. (NEHU, Shilong)	Physical Chemistry	robind	01/01/2009
	Tarun K. Maji	Ph.D. (Calcutta University)	Polymer Science and Technology	tkm	01/12/2005
	Niranjan Karak	Ph.D. (IIT- Kharagpur)	Polymer Science and Nanotechnology	nkarak	30/03/2009
	Ramesh Ch. Deka	Ph.D (NCL Pune)	Computational and Theoretical Chemistry	ramesh	28/07/2010
	Ashim J. Thakur	Ph.D. (CSIR-NEIST, Jorhat)	Organic Chemistry	ashim	31/01/2013
	Ashwini K. Phukan	Ph.D. (Hyderabad University)	Computational Inorganic/Organometallic Chemistry	ashwini	10/06/2014
	Ruli Borah	Ph.D. (Gauhati University)	Organic Chemistry	ruli	19/08/2015
	Panchanan Puzari	Ph.D. (IIT Guwahati)	Physical Chemistry	pancha	28/07/2021
	Utpal Bora	Ph.D. (CSIR-NEIST, Jorhat)	Organic Chemistry	ubora	18/11/2022

	Kusum Kumar Bania	Ph. D. (Tezpur University)	In organic Chemistry	kusum	09/10/2023
	Pankaj Bharali	Ph.D. (CSIR-IICT Hyderabad)	Inorganic Chemistry	pankajb	02/08/2023
	Nayanmoni Gogoi	Ph.D. (IIT, Bombay)	Inorganic Chemistry	ngogoi	30/09/2023
	Bipul Chandra Sarma	Ph.D. (HCU)	Organic Chemistry	bcsarma	01/06/2012
	Sajal Kumar Das	Ph.D. (JNU)	Organic Chemistry	sajalkd	01/02/2013
	Sanjeev Pran Mahanta	Ph.D. (HCU)	Physical Chemistry	spm	12/08/2013
	Mohini Mohan Konai	PhD (JNCASR, Bangalore)	Organic Chemistry, Medicinal Chemistry	mmkonai	25/03/2022
	Dr. Nand Kishore Gour	Ph.D. (Deen Dayal Upadhyaya Gorakhpur University)	Physical Chemistry and Computational Chemistry	nkgour1	9.9.2022
	Dr. Munmi Sarma	Ph.D. (Autonomous University of Barcelona, Spain)	Inorganic Chemistry	munmisarma11@gmail.com	9.3.2023
	Dr. Nashio ur Rohman	Ph.D. (NEIST, Jorhat)	Physical Chemistry	nrohman	20.2.2024
	Dr. Sourav Saikia	Ph.D. (IISc Bangalore)	Physical Chemistry	souravs	26.2.2024

Officers and Staff Members

Designation	Name	<email>@tezu.ernet.in	Date of holding the current position
Technical Officer	Dr. Bedanta Gogoi	bedantag	08/01/2024
Senior Technical Assistant	Dr. Biraj Jyoti Borah	biraj	23/09/2010
	Dr. Raju Borah	raju	20/08/2007
	Dr. Nipu Dutta	nipu	08/09/2010
	Mr. Sankur Phukan	sankur	13/08/2015
	Mr. Manoranjan Sarma	mranjan	02/08/2011
	Mr. Biplob Ozah	bipozah	09/03/2017

<i>UDC</i>	Mrs. Pranati Boro	pranati	30/04/2013
<i>MTS</i>	Mr. Khogen Ch. Das	khogen	01/12/1994

Major Research and Development Findings

Faculty/ Researcher	Salient Research Findings
Nashreen S. Islam	Design and development of: i) Niobium and vanadium based heteroleptic compounds applicable as potent inhibitors of enzymes such as Acid phosphatase, alkaline phosphatase and calcinurin. ii) A set of heterogeneous catalysts based on polymer immobilized transition metal compounds, which could serve as eco-compatible recyclable catalysts for various industrially important organic transformations viz., olefin epoxidation, phenol hydroxylation and bio-mass derived HMF oxidation. iii) Easily applicable approach for the preparation of tetraethyl orthosilicate (TEOS) supported “Fe ₃ O ₄ @TEOS-palladacycle” and their application as heterogeneous catalyst in the cross-coupling reaction of aryl esters with aryl boronic acid under ambient condition without the addition of phosphine ligands.
Robin Kumar Dutta	A technology has been developed for conservation of handmade paper manuscript and machine-made books and a patent has been filed for the same. Removal of lead, mercury and manganese contaminants of drinking water has been piloted and implemented at Mrinaljyoti Rehabilitation Centre, Duliajan, Dist. Dibrugarh by slight modification of our patented arsenic removal technology, Arsiron Nilogon. The Cause and Effects of a Sudden Blackening of the River Kameng/Jiya Bharali in October 2021, which was a great concern due to a large-scale death of aquatic animals, has been ascertained and a paper has been published on that.

Tarun Kumar Maji	<p>Biodegradable polymer composites were prepared using waste coconut fibers (modified/unmodified) and resin derived from linseed oil. Performance of the composites were satisfactory and may be used in household sectors, furniture industries etc. Work for further improvement is going on.</p> <p>Waste fish scales were made value added by forming biodegradable composites with soybean oil based resin. The composites showed a remarkable improvement in properties. This composites may have some applications like armour, helmets, furniture and various household items.</p> <p>Waste bamboo fiber, eggshell, soybean oil were used to replace materials from synthetic origin for making synthetic composites. The waste packaging materials (HDPE/PP) were used with a view to reduce its contribution as less as possible within the composite. The properties of the composites were evaluated and may have their potential applications in packaging, containers etc.</p> <p>Controlled release polymers were prepared by encapsulating lipoic acid, quarcetin etc, into biodegradable polymers. Antidiabetic properties of the polymers were evaluated and found satisfactory.</p>
Niranjan Karak	<p>Development of high-performing biodegradable smart sustainable polymer nanocomposites using renewable resources-based raw materials and various nanomaterials for multifaceted advanced applications including shape memory, self- healing, self-cleaning, tough adhesive, heterogeneous selective photo-catalyst, anti- counterfeiting, etc. materials, Synthesis of hyperbranched polymers from bio-based renewable resources, and Green and facile approaches for production of nanomaterials and nanohybrids.</p>
Ruli Borah	<p>Designing task specific ionic liquid-based materials for extraction of transition metal, photocatalytic degradation of herbicides and catalytic study for organic reactions. Effect of task-specific imidazolium ionic liquids on the surfactant properties of anionic/cationic surfactant in aqueous solution.</p>
Ashwini Kumar Phukan	<p>Studied and investigated the potential of base-stabilized gallium iodide in small molecule activation.</p> <p>Performed computational studies on base-stabilized borylenes and carbene decorated geometrically constrained borylenes.</p>
Ashim Jyoti Thakur	<p>A simple and efficient approach for the S-arylation of tetrazole-5-thiol using copper oxide nanoparticles has been developed. Recently, heterocyclic thiols have attracted a great deal of interest due to their diverse biological and pharmacological properties. Thus, great efforts have been devoted in introducing efficient protocols for the synthesis of such compounds. The utilization of copper oxide nanoparticles has been substantially chosen for catalysis due to their low cost, high surface area, sustainability, and reusability. The distinctive features of this methodology involve a ligand-free catalytic system, simple reaction procedure, shorter reaction time, wide substrate scope compatibility, and high yield of the products.</p> <p>The catalytic efficacy of monometallic (Pd NPs) vs bimetallic nanocatalyst</p>

	<p>(Au NPs and Pd NPs supported on rGO) towards the one-pot synthesis of spirooxindole derivatives has been compared under mild reaction conditions. The multicomponent reaction comprised of reaction of substituted isatins, malononitrile, and 1,3-dicarbonyl compounds to synthesise series of diverse spirooxindoles. The nano-Au-Pd@rGO catalyst showed enhanced catalytic activity in the synthesis of spirooxindoles when compared to that of the monometallic nano-Pd/rGO catalyst which may be indicative of potential synergistic effect in the bimetallic catalyst viz Au and Pd NPs facilitating the accelerated synthesis of spirooxindoles in excellent yields. This methodology has the advantages of utilisation of non-toxic solvent, higher product yields, and lower reaction times at room temperature. Also, higher yields for spirooxindoles in case of substituted carbonyl compounds were observed, an indicative of the gem-dialkyl effect responsible to favour higher yields for spirooxindoles synthesised with dimethyl substituted cyclohexan-diones with respect to the unsubstituted ones for both catalytic systems.</p> <p>A protocol for the chemoselective formation of C–N bond using Cu(OTf) as catalyst has been developed using heterocyclic thiones. The reaction occurs preferentially at the nitrogen centre over the sulphur atom leading to C–N bond formation. Water being the only by-product, the reaction is environmentally friendly. The reaction proceeds without any additive, ligand or inert atmosphere and shows good tolerance towards variety of alcohols and thiotetrazole derivatives. Our developed protocol could be scaled up to gram scale efficiently, which highlights the efficacy of this method and might offer potential application in synthetic industry.</p>
Panchanan Puzari	<p>In the previous year as well as in the current year we have been working on the development of novel electroactive materials for sensing of food and environmental pollutants such as pesticides, growth regulators and antibiotics and also materials for detection of pathological molecules such as creatinine, uric acid, dopamine with an ultimate goal to develop some point of care testing devices (POCT). While developing such materials we emphasize the utilization of advanced metal organic framework materials (MOFs), transition metal based coordinate complexes and bio-waste materials such as eggshell, coconut shell, Palm Oil fiber etc. We are also working on the development of energy storage devices with better performance.</p>
Utpal Bora	<p>A heterogeneous catalyst for Suzuki-Miyaura cross-coupling reaction using graphitic carbon nitride oxide (g-C₃N₄O) sheet decorated with biogenically synthesized Pd nanoparticles (NPs) is developed. We have also developed new reaction strategies for functionalization of heterocyclic molecules. Accordingly a cheap urea-based catalyst, [Cu₂(OAc)₄(DMU)₂] is developed by <i>in-situ</i> complexation of Cu with <i>N,N'</i>-Dimethylurea (DMU) ligand for the <i>N</i>-arylation of amines, 3-aminophenols, and primary amides through Chan-Lam cross-coupling strategy. In another attempt an efficient protocol for the regioselective <i>N</i>²-arylation of 5-substituted 1<i>H</i>-tetrazoles with arylboronic acids using commercially available CuO nanoparticles as catalyst and biological study of the synthesized 2,5-disubstituted tetrazoles is developed. Additionally a bio-derived Pd(0)-embedded-lignocellulosic nanomaterials as a heterogeneous catalyst for selective C2–H arylation of</p>

	free <i>N</i> -H indoles is developed. WE have also developed two methodologies for synthesis and functionalization of indoles derivatives. Development of synthetic protocol for indole synthesis <i>via</i> intramolecular Heck cyclisation, utilizing <i>in-situ</i> generated palladium nanoparticles as catalysts. Development of a greener approach for selective construction of cyclopenta[<i>b</i>]indoles <i>via</i> a cascade addition/intramolecular cyclization reaction of indoles and acetone using molecular-iodine. Moreover halogen bonding assisted protocol for site-selective C-3 triaryl methylation of indoles and <i>N</i> -triaryl methylation of imidazoles under catalyst-, metal-, and additive-free conditions at room temperature.
Kusum Kumar Bania	The salient research outcomes are as follows: i) Designed Ru-nanos at zeolite-Y for ortho-benzylation of phenols and activation of H ₂ O ₂ for highly selective synthesis of BINOLs. ii) Developed a low Palladium content Fe(III) nanocatalyst for effective C-Cl bond activation within short reaction time to achieve high yield of biaryls. iii) Photoactivation of peroxy monosulfate (PMS) over a CuO-ZnO p-n heterojunction for the selective C2 trimerization of indoles. iv) Designing of Ni/Sn, cobalt oxide, and NiO-ZnO electrocatalysts for Methanol oxidation reaction in alcohol fuel cell. v) Designing of a few transition metal oxide based catalysts for dye degradation in order to develop a process to minimize the pollutants from the environment.
Pankaj Bharali	Design and development of Pd-based and CeO ₂ -based non-Pt electrocatalysts and their exploration toward oxygen reduction reaction, oxygen evolution reaction and formic acid oxidation reactions. The electrocatalysts exhibit excellent activity toward the above-mentioned fuel cell reactions in alkaline and acidic electrolytes.
Nayanmoni Gogoi	Cyano-bridged heterometallic molecular magnetic materials for advanced spintronics applications are designed. We employed bottom-up building block approach to fabricate designer cyano-bridged heterometallic aggregates by careful choice of metal ions as well as other peripheral coligands and thereby incorporate various desirable physical characteristics in the resulting molecular magnetic materials e.g. single molecular magnetism, external stimuli responsive spin state switching, multiferroic, fluorescent etc.
Sajal Kumar Das	Our research interests lie primarily in various aspects of synthetic organic chemistry with a strong focus on the stereoselective synthesis of privileged structure-based small organic molecules. Synthesis of chiral heterocycle-based small molecules is one of the most active areas of current research in organic chemistry. It is a well-known fact that more than half of all known organic compounds are heterocyclic compounds. Also, they are found as key structural units in more than 90% of the new marketed drugs. We are interested in the design, synthesis and biological evaluation of 'small but smart' libraries of chiral heterocycle-based small molecules. In particular, we are involved in the synthesis of chiral indoline, 1,2,3,4-tetrahydroisoquinoline-, 2,3-dihydrobenzofuran, and chroman-based natural product-like molecules. Our methodological interests lie primarily in the areas of Lewis/Brønsted acid-catalysed intramolecular ring opening

	of strained small ring structures for the preparation of new classes of functionalized heterocycles. Due to their inherent ring strains, these cyclic compounds serve as versatile platforms for the synthesis of natural products and large number of synthetic compounds for drug discovery research. We are developing methods which involve domino reactions initiated by ring-opening of strained small rings to access diverse chiral benzo-fused heterocycles. Our group has reported a number of epoxide/aziridine ring-opening cyclization for the construction of diverse benzofused heterocycles.
Bipul Chandra Sarma	Primarily focus is on the Pharmaceutical Crystallization and Porous materials synthesis for a purpose. Nucleation control of polymorphic active candidates on Heterogeneous Surface/ Template i.e. Self-Assembled Monolayer (SAM) and Organo-Gels are explored. SAMs, ordered molecular assemblies are employed to obtain oriented crystallization of a desired polymorph. Whereas Gels are soft matter that entraps solvent in 3D network of fibres intertwined by probable non-covalent supramolecular interactions which helps in minimizing diffusion and control supersaturation leading to discovery of a new polymorphs. Porous Organic Polymer (POP)/Covalent Organic Framework (COF) are the class of crystalline porous organic polymers with permanent porosity and highly ordered structures. These materials are designed to use in gas adsorption, catalysis, energy storage and to improve charge carrier transport and photoconductive properties of photovoltaic cells. Our objectives encompass the synthesis of COFs/POPs for gas absorption, separation and catalysis of selected organic transformation reactions. Crystal Engineering technology is used to improve the properties of these active compounds; i.e. Pharmaceutical cocrystal/salts, polymorphism etc. that have tremendous importance because of its ability to fine-tune the properties of the parent drugs.
Sanjeev Pran Mahanta	Developed a low cost metal mediated strategy for detection of fluoride ion in aqueous medium.
Mohini Mohan Konai	Dr. Konai's research work focus on the development of different strategies to address the challenges posed by antibiotic resistance. In one of the strategies, his research group is involved in rationally designing and development of different classes of small antibacterial molecules, which selectively target the bacterial membrane over mammalian cells. A preliminary study revealed potent antibacterial activity of these newly designed compound and hence further investigation is currently under progress. In another strategy, his research group focus on the development on different class of antibacterial materials such as hydrogels, nanoparticles, etc. for various applications. In this direction, different antibacterial agents including nano particles were loaded into the rationally designed hydrogel matrix and their properties have been studies to evaluate the efficacy for further development.

Research Projects (both Ongoing and New)

Project Title	Funding Agency	Amount (in INR)	Duration	Investigator(s)
Self-healing and self-cleaning epoxy thermosetting nanocomposites	DRDO	28,85,000/-	2021-2024 (3 Year)	Prof. Niranjana Karak
Design of organic nitrile surrogates for the synthesis of aliphatic/aromatic/heteroaromatic nitriles: A reliable gateway to Azaheterocycles	CSIR, New Delhi	23,50,000/-	2021-2024 (3 years)	Prof. Utpal Bora
Design of Zeolite-Y Supported Heterogeneous Catalyst for C-C Bond Coupling Reaction	CSIR	25,00,000/-	2020-2024 (3+1 Year)	Prof. Kusum K. Bania
Construction of Single and Dual Active Site Catalysts for Diffusion Controlled Reactions: Understanding the confinement Effect and Reaction Mechanism	DST-SERB-CRG	30,77,000/-	2024-2027 (3 Year)	Prof. Kusum K. Bania
Rational Design of Ni-Based Anode Materials for Alcohol Fuel Cell	DST-SERB-EMEQ	40,01,000/-	2024-2027 (3 Year)	Prof. Kusum K. Bania
Synthesis of Chiral Homogeneous and Heterogeneous for comparative Study in Asymmetric Synthesis	DST-SERB-TARE	18,30,000/-	2024-2027 (3 Year)	Prof. Kusum K. Bania
Computational Investigations Towards Designing of Main Group and Transition Metal based Systems for Dinitrogen Activation	DST-SERB	40,96,000/-	2020-2023 (completed)	Prof. A. K. Phukan
Phosphorus-stabilized highly reactive boron species: synthesis, bonding and applications	CEFIPRA	55,42,000/-	2023-2025 (ongoing)	Prof. A. K. Phukan
Crystallization of Drugs Templated by Mimetic Organogels & Functional Surfaces	SERB-India	29,30,400/-	2020-2023 (completed)	Dr. Bipul Chandra Sarma
Switchable molecular magnetic materials	SERB	38,21,000/-	2021-2024 (3 Year)	Dr. Nayanmoni Gogoi
pH responsive switchable cyanide bridged Co-Fe molecular aggregates	CSIR	24,64,000/-	2021-2024 (3 Year)	Dr. Nayanmoni Gogoi

Tuning Metal Oxide Clusters for Selective Catalytic Hydrogenation of CO ₂ to Organic Acids using Quantum Chemical Methods	SERB, CRG/2020/002158	29,48,060/-	2021-2024 (3 Year)	Prof. Ramesh Ch. Deka
UGC-CARE Journals	UGC, New Delhi	25,00,000/-	2019-2024 (3 Year)	Prof. Ramesh Ch. Deka
Mechanochemical Synthesis of Pharmaceutical Solid Forms to Avoid Degradation of Moisture Sensitive Active Pharmaceutical Ingredients using combined computational and experimental crystal engineering approaches,	SERB, New Delhi	10,05,000/-	2022-2025 (3 Year)	Prof. Ramesh Ch. Deka
Bioinformatics and Computational Biology Centre for Microbial Biodiversity in Assam and Arunachal Pradesh.	DBT, Government of India	75,00,000/-	2022-2025 (3 Year)	Prof. Ramesh Ch. Deka
Design and Fabrication of pH Universal Nonprecious Electrocatalysts For Green Hydrogen Energy	M/S Shell India Markets Pvt. Ltd.	50000 USD/ year, 41,62,000/-	2023-2025 (2 yrs)	Dr. Pankaj Bharali,
Mechanistic Understanding of Reaction Pathways over Bifunctional Fuel Cell Electrodes	CRG-SERB/DST	43.50945 Lakh	2024-2027 (3 yrs)	Dr. Pankaj Bharali,
Switchable molecular magnetic materials	SERB	38,21,000/-	2021-2024 (3 Year)	Dr. Nayanmoni Gogoi
pH responsive switchable cyanido bridged Co-Fe molecular aggregates	CSIR	24,64,000/-	2021-2024 (3 Year)	Dr. Nayanmoni Gogoi
Probing spin-electric effect in cyanido bridged heterometallic chains	DST	10,25,000/-	2023-2025 (2 Years)	Dr. Nayanmoni Gogoi
Development of Dearomatizing Cascade Reaction Towards 3,4-Fused Indolines	DST-SERB	39,42,387/-	2023-2026	Dr. Sajal Kumar Das
Conservation of handmade paper manuscripts of Assam	INSA	8,00,000/-	2023-2025	Prof. Robin K. Dutta
Combination Drug Technology for Improved Healthcare	ASTEC	1,80,000/-	2022-2024 (2 Years)	Dr. Bipul Chandra Sarma
Synthesis of Small Molecular Lipopeptide Mimics as Novel Antibacterial Agents	Tezpur University	2,00,000/-	2022-2023 (1 Year)	Dr. Mohini Mohan Konai

Design and Solution Phase Synthesis of Lipopeptide Mimics as Novel Antibacterial Agents	DST-SERB	32,00,994/ -	2023-2025 (2 Year)	Dr. Mohini Mohan Konai
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Publications by Faculty

Patent:

Puzari, P., Dutta, R. Rani., Himadri, H., Gogoi, S., Enhancement of Stability of Acetylcholinesterase in Ethyl Acetate Through The Use Of Lipase and L-Serine, Indian Patent: Patent No: 530708

Publication of Articles in UGC-CARE Listed Group I/Group II Journals

- Acharjee, Aley, S., Bharali, P., Ramachandran, D., Kanagasabai, V., Gogoi, M., Hazarika, S., Koch, and P.J. (2024). Polyhydroxybutyrate (PHB)-Based sustainable bioplastic derived from *Bacillus* sp. KE4 isolated from kitchen waste effluent. *Sustainable Chemistry and Pharmacy*, 39: 101507.
- Ahmed, S., Das, H., González-Pinardo, D., Fernández, I., and Phukan, A.K. (2024). Mono(Lewis Base)-Stabilized Gallium Iodide: An Unexplored Class of Promising Ligands., *Chem. Eur. J.* 2024: e202303746.
- Ahmed, S., Fernández, I., Phukan, A.K. (2023). Skeletally substituted aluminium and gallium carbenoids: a computational exploration, *Dalton Trans.*, 52 : 8567-8579.
- Ali, A.A., and Dutta, R.K. (2023). Traditional science in pigments and recipe of painting woodcarving in medieval Assam, India, *Journal of Coatings Technology and Research*, 20: 1595-1609.
- Ali, A.A., Dutta, and R.K. (2023). Restoration and conservation of *Sāncipāt* manuscripts of Assam for preserving in ordinary rural setup, *Indian Journal of History of Science*, 58: 297-311.
- Ali, A.A., Mazumdar, S., Dutta, R.K. (2023). A Study of Cellulose and Lignin Extracted from Sānci Bark and Their Modification. *Cellulose Chemistry & Technology*, 57: 699-716.
- Angarkhe, P. R., Shaikh, A., Rout, S. R., Sarma, B., Tripathy, J., Dandela, R., and Mohapatra, S. K. (2024). Synthesis, X-Ray Structures, Hirshfeld Surface Analysis, and Redox Behaviour of 2-Substituted-1H-Perimidine Derivatives. *Journal of Molecular Structure*, 1296: 136920.
- Baroi, S., Ali, A.A., Saikia, R., Das, T., Baishya, S., and Dutta, R.K. (2025). The Cause and Effects of a Sudden Blackening of the River Kameng/Jiya Bharali in October 2021, *Asian Journal of Water, Environment and Pollution*, 21: 45-52.
- Baruah, K. Sarma, B. and Dolui, S. K. (2024). Aluminum Montmorillonite/Polyaniline Hybrid Composite-Based Organogels for the Expurgation of Carcinogenic Chlorophenols and Congo Red Dye from Defiled Water Sources. *Langmuir*, 40 (1): 450–461.
- Baruah, K., Dutta, R., Doley, S., Sarma, B., and Dolui, S. K. (2024). Polymeric Organogel as an Effective Approach for Eradication of Heavy Metal Ions As, Pb, Cd, and Cr from the Surface of Groundwater through Adsorption Stratagem. *Journal of Applied Polymer Science*, 141 (2): e54767.
- Baruah, K., Kalita, S., Kashyap, N., Bora, D.B., Paul, S., and Borah, R. (2023). Study of

- multicomponent synthesis of 7-alkyl or aryl-6 H, 7 H-benzo [f] chromeno [4,3-b] chromen-6-ones involving N, N-disulfopiperidiniumbisulfate [DSPP][HSO₄] as efficient. recyclable homogeneous Brønsted acidic catalyst. *Molecular Diversity*, 28(1): 159-169.
- Baruah, M.J., Dutta, R., Zaki, M.E. and Bania, K.K. (2024). Heterogeneous Iron-Based Catalysts for Organic Transformation Reactions: A Brief Overview. *Molecules*, 29(13): 3177.
 - Bendangtula, W., Bharali, P., Ramachandran, D., Kanagasabai, V., and Dutta, D. (2024). Swapnali Hazarika, Gobichettipalayam Balasubramaniam Maadurshni et al. Bacterial valorization of agricultural-waste into a nano-sized cellulosic matrix for mitigating emerging pharmaceutical pollutants: An eco-benign approach. *International Journal of Biological acromolecules*, 133684.
 - Bhattacharjee, P., Dewan, A., Boruah, P. K., Das, M. R., and Bora, U. (2023). Pd (0)-embedded-lignocellulosic nanomaterials: A bio-tailored reusable catalyst for selective C2–H arylation of free N–H indoles. *Sustainable Chemistry and Pharmacy*, 33:101087.
 - Bhattacharjee, P., Sarma, B., and Bora, U. (2023). Molecular-iodine catalyzed selective construction of cyclopenta[b]indoles from indoles and acetone: a green gateway to indole-fused cycles. *Organic & Biomolecular Chemistry*, 21(46): 9275-9285.
 - Biswas, S., Barman, D., Dutta, P., Gour, N.K., Lee, S., Kim, D., Park, Y.B., Bora, T.J., Devi, A., Khanam, S.A. and Saikia, L. (2024). Ru-nanos at zeolite-Y for ortho-benzoylation of phenols and activation of H₂O₂ for selective synthesis of BINOLs. *Catalysis Science & Technology*, doi.org/10.1039/D4CY00429A.
 - Biswas, S., Barman, D., Gogoi, G., Hoque, N., Devi, A., Purkayastha, S.K., Guha, A.K., Nath, J.K. and Bania, K.K. (2023). Heterogeneous iron catalyst for C (1)–H functionalization of 2-naphthols with primary aromatic alcohols. *Organic & Biomolecular Chemistry*, 21(8):1657-1661.
 - Bora, D. B., Bora, B. R., Paul, S., Kalita, S., Kashyap, N., and Borah, R. (2024). Variation of micellization, thermodynamic, and surface properties of sodium dodecyl sulfate in aqueous media using 1, 3-disulfo-2-alkyl imidazolium chloride ionic liquids. *Colloid and Polymer Science*, 302(6): 979-999.
 - Bora, P. Pathak, D. Kalita, B. K., and Sarma, B. (2023). Deciphering the Role of Environmental Variables in the Nucleation of Stoichiometric Cocrystals. *Crystal Growth & Design*, 23 (3): 1500–1510.
 - Bora, T.J., Hazarika, N., Gour, N.K., Lee, S., Park, Y.B., Biswas, S., Devi, A. and Bania, K.K. (2023). Low-Palladium-Content Iron (III) Nanocatalyst Supported on Zeolite-NaY for C–Cl Bond Activation. *ACS Applied Nano Materials*, 6(19): 17972-17985.
 - Borah, P., Gogoi, N., and Mahanta, S. P. (2023). Seasonal variation in carbon mineralization kinetics, microbial biomass carbon and enzyme activities in the soils of three natural ecosystems of Kaziranga National Park, Assam, North East INDIA. *Journal of Soil Science and Plant Nutrition*, 23(4): 5300-5311.
 - Borkotoky, L., Newar, U. D., Sarma, B., and Maurya, R. A. (2023) Redox-Neutral Three-Component Coupling of Phenacyl Azides, Aldehydes, and 1,3-Dicarbonyls to Access β-Enaminodiones. *Journal of Organic Chemistry*, 88 (9): 5329–5340.
 - Boruah, K., Rohman, S., Guha, A.K., Das, S., and Borah, R. (2023). Investigation of physical and electrochemical behaviour of N-sulfonic acid functionalized cyclic ammonium based Bronsted acidic ionic liquids in moleculsr solvents, *Journal of Ionic Liquids*, 3 (2): 100062.
 - Chakraborty, B., Basumatary, F.E., Braunschweig, H., and Phukan, A.K. (2023). Cooperative Activation of Small Molecules by Base-Stabilized Borylenes., *Inorg. Chem.*, 62: 9063–9076.

- Chakraborty, B., González-Pinardo, D., Fernández, I., and Phukan, A.K. (2024). Carbene-Decorated Geometrically Constrained Borylenes for Bond Activations (Invited Article), *Inorg. Chem.* 63 : 14969–14980.
- Chetry, R., Chutia, B., Patowary, S., Borah, B. J., Sudarsanam, P., and Bharali, P. (2023). Electronic Modulation of Pd/C by Simultaneous Doping of Cu and Co Tendering a Highly Durable and Methanol-Tolerant Oxygen Reduction Electrocatalyst. *Energy & Fuels*, 37(13):9557-9567
- Choudhary, S. A., Patra, D., Sinha, A., Mazumder, S., Pant, R., Chouhan, R., Jha, A. N., Prusty, B. M., Manna, D., Das, S. K., Tikoo, K., Pal, D., and Dasgupta, S. (2023). A small molecule potent IRAK4 inhibitor abrogates lipopolysaccharide-induced macrophage inflammation in-vitro and in-vivo. *European Journal of Pharmacology*, 944: 175593.
- Choudhury, A., Mudoi, P. P., Ahmed, N., Deka, D., Sarkar, S., Sarma, B. and Gogoi, N. (2023). Probing the Influence of Structural Distortion and Axial Ligands on Magnetic Anisotropy in a Series of Chiral Pentagonal Bipyramidal Co(II) and Ni(II) Complexes. *Crystal Growth & Design*, 23(7); 4760-4770.
- Chouhan, R., Bhattacharyya, H., and Das, S. K. (2024). Diastereocontrolled Construction of Spiroindolenines via Hexafluoroisopropanol-Promoted Dearomative Epoxide–Indole Cyclization. *Organic Letters*, 26(5): 1088-1093.
- Chutia, B., Chetry, R., Rao, K. N., Singh, N., Sudarsanam, P., and Bharali, P. (2024). Durable and Stable Bifunctional Co₃O₄-Based Nanocatalyst for Oxygen Reduction/Evolution Reactions. *ACS Applied Nano Materials*, 7(4): 3620-3630.
- Das, A. J., and Das, S. K. (2023a). Base-Mediated, Chemo- and Regioselective (4+2) Annulation of Indole-2-carboxamides with 2,3-Epoxy Tosylates toward 1,2-Fused Indoles. *The Journal of Organic Chemistry*, 88(13): 9237-9248.
- Das, A. J., and Das, S. K. (2023b). Studies on the synthesis of ammonificin A: New synthesis of trans-4-arylchroman-3-ols via intramolecular dehydrative Friedel–Crafts alkylation of 3-aryloxy-1-arylpropane-1,2-diols. *Tetrahedron*, 144: 133576.
- Das, J., Chouhan, R., Borgohain, H., Borah, B. J., and Das, S. K. (2023). Trifluoroethanol-Mediated Cyclization of Two-Carbon-Tethered Epoxide–N-Boc Pairs: Completely Regioselective Synthesis of 3,6-Disubstituted 1,3-Oxazinan-2-ones. *Synthesis*, 55(13): 2037-2046.
- Das, J., Gogoi, A., Borah, B. J., and Das, S. K. (2023). An epoxide-opening cyclization/double Smiles rearrangement cascade approach to N-aryl-1,4-benzoxazines and N-arylindolines [10.1039/D3OB00440F]. *Organic & Biomolecular Chemistry*, 21(23): 4755-4759.
- Das, R., Laha, J., Hazarika, I., Thakuria, B. R., Baruah, A., and Gogoi, B. (2024). Tungsten disulfide and reduced graphene oxide composite as efficient catalyst for the reduction of picric acid in aqueous media. *Journal of Materials Science*, 59: 3839-3857
- Das, S., Kashyap, N., Kalita, S., Bora, D.B., and Borah, R. (2023). Comparative study on the physicochemical properties of N-SO₃H functionalized ammonium and imidazolium ionic liquids. *J. Mol. Liq.*, 390: 123041.
- Das, S., Paul, S., Kashyap, N., Saikia, P., and Borah, R. (2024). n-SO₃H functionalized brønsted acidic ionic liquid catalysed sequential one-pot synthesis of 2-amino-3-cyanopyridines via Claisen-Schmidt Condensation under solvent-free condition. *ChemistrySelect*, 9 (11): e202304103.
- Deffo, G., Fotsop, C.G., Ngaha, M.C.D., Fogang, S.G., Vomo, L.A., Nkuigoua, B.W., Shella, C.A., Somba, A.V., Tene, T.F.N., Tchummegne, I.K. Njanja, E., and Puzari, P. (2024). Evaluation of two core–shell (Ag₂S@- and Bi₂S₃@-) sensors based on a metal–organic framework (NH₂-MIL-125-Ti)/polyaniline for the electroanalysis of uric acid in

- urine samples. *Materials Advances*, 5(9):3683-3695.
- Deka, P., Chakraborty, A., Sarma, K. K., Das, R., Mahanta, S. P., Althubeiti, K., and Thakuria, R. (2023). Synthesis and Characterization of pH Triggered Imine Functional Low Molecular Weight Hydrogel. *ChemistrySelect*, 8(45): e202302358.
 - Devi, A., Bharali, M.M., Biswas, S., Bora, T.J., Nath, J.K., Lee, S., Park, Y.B., Saikia, L., Baruah, M.J. and Bania, K.K. (2023). Utilization of methanol and ethanol for 3, 3'-bis (indolyl) methane synthesis through activation of peroxymonosulfate over a copper catalyst. *Green Chemistry*, 25(9):3443-3448.
 - Devi, A., Bharali, M.M., Lee, S., Park, Y.B., Saikia, L., Saha, R.A., Kalita, T., Kalita, D., Biswas, S., Bora, T.J. and Khanam, S.A. (2024). Photoactivation of peroxymonosulfate (PMS) over a CuO–ZnO p–n heterojunction for the selective C2 trimerization of indoles. *Catalysis Science & Technology*, 14(9): 2400-2415.
 - Dutta, N., and Maji, T. K. (2023). Development of waste rice husk/PVC/GO nanocomposite using TA–CaO adduct and ESO as green additives. *Journal of Thermoplastic Composite Materials*, 36(5): 2212-2232.
 - Dutta, N., Dutta, B., Dutta, A., Sarma, B., and Sarma, D. (2023). Room Temperature Ligand-Free Cu₂O–H₂O₂ Catalyzed Tandem Oxidative Synthesis of Quinazoline-4(3*H*)-One and Quinazoline Derivatives. *Organic & Biomolecular Chemistry*, 21 (4): 748–753.
 - Dutta, R., Baruah, K., Dhar, S., Ahmed, A., Dutta, N., Doley, S., Sedai, P., Dolui, S.K., Ray, B.C., and Karmakar, B. (2023). Removal of oils and organic solvents from wastewater through swelling of porous crosslinked poly (ethylene-co-vinyl acetate): Preparation of adsorbent and their oil removal efficiency. *Marine Pollution Bulletin*, 186: 114488.
 - Gogoi, A., Mukhopadhyay, S., Chouhan, R., and Das, S. K. (2024). Synthesis of benzimidazole-fused 1,4-benzoxazepines and benzosultams spiro-connected to a 2-oxindole core via a tandem epoxide-opening/SNAr approach [10.1039/D3OB01613G]. *Organic & Biomolecular Chemistry*, 22(2): 353-363.
 - Gogoi, B., Khargharia, S., Kar, R., Borah, B.J. and Das, P. (2024). A new air-stable Pd-PEPSI N- heterocyclic carbene complex: Synthesis, structure, computational and catalytical studies, *Journal of Molecular Structure*, 1295: 136678.
 - Gogoi, G., Banerjee, P., and Maji, T. K. (2024). Study on the physicochemical properties of human hair fiber-reinforced modified epoxidized soybean oil-based composites. *Surface and Interface Analysis*, 56: 544-552.
 - Gogoi, G., Gaur, N.K., Lee, S., Park, Y.B., Saikia, L., Zaki, M.E. and Bania, K.K. (2023). Copper oxide in layered tin oxide with intracrystalline microporosity for oxidative imination of toluene and p-xylene. *Molecular Catalysis*, 550: 113534.
 - Gogoi, G., Joarder, A., Bardhan, P., Dowerah, D., Mandal, M., Deka, R. C., and Maji, T. K. (2024). Development of Rosin Derivative Crosslinked Vegetable Oil Based Keratin Fiber Reinforced Biodegradable Composites. *Waste and Biomass Valorization*, 15(2): 787-803.
 - Gogoi, G., Saikia, S., Das, A., Saikia, S., Hoque, N., Biswas, S., Dey, M., Kalita, P.K. and Bania, K.K. (2023). Iron and copper catalysts derived from inorganic waste for dye degradation. *ChemistrySelect*, 8(27): e202300279.
 - Gohain, S. B. Ahmed, A. L., and Thakur, A. J. (2023). Efficacy of Au versus Au-Pd nanoparticles towards synthesis of spirooxindoles via multicomponent reaction, *Gold Bulletin*, 56: 43–51.
 - Goswami, C., Borah, B. J., Das, R., Tada, K., Tanaka, S., Prosvirin, I. P., and Bharali, P. (2023). CeO₂ promotes electrocatalytic formic acid oxidation of Pd-based alloys. *Journal of Alloys and Compounds*, 948:169665.

- Hazarika, I., Borah, S., Sarkar, D., Bharadwaj, S., and Gogoi, B. (2024). MoS₂/WS₂ Nanosheets and Quantum Dots for Sensing Hemin and Fabrication of Self-Powered Photodetectors. *ACS Applied Optical Materials*, 2 (3): 517-527.
- Hazarika, R., Deffo, G., Wamba, H.N., Hussain, N., Kalita, S., Basumatary, M., Njanja, E., Dasgupta, S., and Puzari, P. (2024). Sensitive determination of 4, 6-dinitro-o-cresol based on a glassy carbon electrode modified with Zr-UiO-66 metal–organic framework entrapped FMWCNTs. *Analytical Methods*, 16(1): 62-73.
- Hazarika, R., Dutta, S., Sarmah, S., Hazarika, P. K., Singh, K., Kumar, A., Sarma, B., and Sarma, D. (2024). PCy₃ -Assisted Ag(I)-Catalyzed Click Reaction for Regioselective Synthesis of 1,4-Disubstituted 1,2,3-Triazoles at Room Temperature. *Organic & Biomolecular Chemistry*, 22 (4): 694–698.
- Hoque, N., Lee, S., Park, Y.B., Roy, S., Zaki, M.E. and Bania, K.K. (2023). Ni (OH) 2-SnO₂ at the hybrid interface of zeolite-Y and rGO for electrochemical oxidation of methanol and ethanol. *Energy & Fuels*, 37(15): 11309-11318.
- Hussain, N., and Puzari, P. (2024). Deciphering the complexation processes of creatinine-cobalt and creatinine-cobalt-2-nitrobenzaldehyde: Morphological, spectroscopic and electrochemical analysis. *Journal of Molecular Structure*, 1316: 139042.
- Kalita, A.J., Gohain, N., Bordoloi, A., Bania, K.K. and Guha, A.K. (2023). Hetero-Polar Sextuple Bond: A Relativistic Quantum Chemical Study. *ChemPhysChem*, 24(9): e202200873.
- Kashyap, N., Das, S., Paul, S., Purkayastha, S.K., Guha, A.K., and Borah, R. (2024). Study of the catalytic activity of methylene-bridged dicationic–SO₃H -functionalized imidazolium phosphomolybdate hybrids for the one-pot sequential synthesis of 3-substituted indoles. *New J. Chem.*, 48: 10446-10462
- Kashyap, N., Paul, S., Bora, D. B., Kalita, S., and Borah, R. (2023). Dual functional behaviour of dicationic ionic liquid as extractant and hydrophobic biphasic solvent for extraction of Pb (II) in water. *J. Mol. Liq.* 392: 123521.
- Katakya, S., Rakshit, A., Ahmed, S. P., Kalita, B. K., Sarma, B., and Thakur, A. J. (2024). Ligand-free CuO Nanoparticles Catalyzed S-arylation of Heterocyclic Thiols Using Aryl Halides. *Applied Organometallic Chemistry*, 38 (8): e7518.
- Katakya, S., Sarma, B., and Thakur, A. J. (2023). Preparation of 2,5-Disubstituted Tetrazoles using a Copper-Catalysed Regioselective Direct Coupling of Tetrazoles with Free NH Groups and Boronic Acid Derivatives, *ChemistrySelect*, 8(42): 202301843.
- Katakya, S., Sarma, B., Thakur, A. J. (2023). Lewis Acid Catalysed Chemoselective Amination of Alcohols Using Heterocyclic Thiones: An Avenue to Thiotetrazole Derivatives, *European Journal of Organic Chemistry*, 26(39): e202300515.
- Khanam, S.A., Saikia, S., Lee, S., Park, Y.B., Zaki, M.E. and Bania, K.K. (2023). Interfacial Effect-Induced Electrocatalytic Activity of Spinel Cobalt Oxide in Methanol Oxidation Reaction. *ACS omega*, 8(47): 44964-44976.
- Khanam, S.A., Sarmah, K., Guha, A.K., Lee, S., Park, Y.B., Saikia, L., Saikia, S., Saha, R.A. and Bania, K.K. (2024). Oxidizing methanol at cubic-hexagonal junction of NiO-ZnO at low onset potential. *Electrochimica Acta*, 498: 144641.
- Khataniar, A., Das, A., Baruah, M.J., Bania, K.K., Rajkhowa, S., Al-Hussain, S.A. and Zaki, M.E. (2023). An Integrative Approach to Study the Inhibition of *Providencia vermicola* FabD Using C2-Quaternary Indolinones. *Drug Design, Development and Therapy*, 17: 3325-3347.
- Khatun, B., Rather, M. A., Rohilla, S., Borah, R., Mandal, M., and Maji, T. K. (2023). Curcumin–hydroxypropyl-β-cyclodextrin complex preparation methods: a comparative study. *Chemical Papers*, 77(8): 4409-4424.

- Konwar, D., Saikia, R., Kalita, R., Das, M. R., and Bora, U. (2023). Minimizing base stoichiometry in Pd (0)/gC₃N₄O catalyzed Suzuki–Miyaura cross-coupling reaction. *New Journal of Chemistry*, 47(38): 17758-17768.
- Konwar, D., Sarma, P., Borah, J. C., and Bora, U. (2023). Halogen bonding assisted site-selective C-3 triaryl methylation of indoles and *N*-triaryl methylation of imidazoles. *Organic & Biomolecular Chemistry*, 21(30): 6197-6204.
- Kumari, T., Meena, R., Giri, L., Sarma, B., Angarkhe, P. R., Jacob, J. M., Tripathy, J., Joshi, J., Ravva, M. K., Behera, R. K., and Mohapatra, S. K. (2023). Synthesis and Structural Investigation of Mononuclear Penta- and Hexa-Coordinated Co Complexes of 8-Hydroxyquinoline Derived Ligands. *Journal of Molecular Structure*, 1273: 134253.
- Maoz, R., Nelson, P., Gogoi, B., Burshtain, D., Talukder, S., Zou, S., Sarkar, A., Berson, J., and Sagiv, J. (2024). Interfacial Electron Beam Lithography Converts and Insulating Organic Monolayer to a Patterned Single-Layer Conductor with Puzzling Charge Transport performance. *ACS Nano*, 18 (29): 18948-18962.
- Mushahary, B. C., Biswakarma, N., Thakuria, R., Das, R., and Mahanta, S. P. (2024). In Situ Ni (II) Complexation Induced Deprotonation of Bis-Thiourea-Based Tweezers in DMSO–Water Medium: An Approach toward Recognition of Fluoride Ions in Water with Organic Probe Molecules. *ACS omega*, 9(27): 29300-29309.
- Mushahary, B. C., Buragohain, R., Neog, S., Biswakarma, N., Thakuria, R., Das, R., and Mahanta, S. P. (2024). Transition metal complexation assisted stabilization of the deprotonated organic moiety: A strategy for colorimetric and electrochemical recognition of fluoride ion in water medium with organic probe molecules. *Inorganic Chemistry Communications*, 112560.
- Nath, H., Khataniar, A., Bania, K.K., Mukerjee, N., Al-Hussain, S.A., Zaki, M.E. and Rajkhowa, S. (2023). Nano-functionalization and evaluation of antimicrobial activity of *Tinospora cordifolia* against the TolB protein of *Pseudomonas aeruginosa*—An antibacterial and computational study. *Frontiers in Microbiology*, 14: 1138106.
- Nath, J., Guha, A. K., Edelmann, F. T., Sarma, B., and Sarmah, B. J. (2023) Synthesis, Structural Characterization and DFT Calculations of a Diphenyl-2-Pyridylphosphine Complex of Copper (II). *Journal of Coordination Chemistry*, 76 (16–24): 1867–1878.
- Pathak, D., Kalita, B. K., Sarmah, A., Sharma, H., Bora, B., Goswami, T. K., and Sarma, B. (2023). Metal-Free Reusable Hollow-Spherical Triazine Microporous Organic Polymer Supported Quinolines Synthesis *via* Hydrogen Evolution. *Green Chemistry*, 25 (19): 7642–7652.
- Pathak, D., Kumar Kalita, B., Sharma, H., Biswakarma, N., Deka, R. Ch., and Sarma, B. (2024). One-Pot *N* -Alkylation of Amines over Ni(II) Embedded Reusable Porous Organic Polymer *via* Borrowing Hydrogen Strategy. *ChemCatChem*, 16 (8): e202301399.
- Poudel, R., Dutta, N., and Karak. N., (2023). A mechanically robust biodegradable bioplastic of citric acid modified plasticized yam starch with anthocyanin as a fish spoilage auto-detecting smart film. *International Journal of Biological Macromolecules*, 242: 125020.
- Saikia, P., Doley, S., Dolui, S. K., and Mahanta, S. P. (2024). p-Thiocresol Functionalized Cesium Lead Bromide (PTC@ CsPbBr₃): A Fluorometric Sensing Probe for the Detection of Cholesterol. *The Journal of Physical Chemistry B*, 128(13): 3081-3089.
- Saikia, R. A., Talukdar, K., Pathak, D., Sarma, B., and Thakur, A. J. (2023). Utilization of Aryl (TMP)Iodonium Salts for Copper-Catalyzed *N* -Arylation of Isatoic Anhydrides: An Avenue to Fenamic Acid Derivatives and *N,N'* -Diaryldiazol-3-Ones. *Journal of Organic Chemistry*, 88 (6), 3567–3581.

- Saikia, R., Das, S., Almin, A., Mahanta, A., Sarma, B., Thakur, A. J., and Bora, U. (2023). *N,N'*-Dimethylurea as an efficient ligand for the synthesis of pharma-relevant motifs through Chan–Lam cross-coupling strategy. *Organic & Biomolecular Chemistry*, 21(15):3143-3155.
- Saikia, S., Saikia, L., Lee, S., Park, Y.B., Saha, R.A., Khanam, S.A., Zaki, M.E. and Bania, K.K. (2024). Cu (I/II)-Co (II/III) photocatalyst with intrinsic electron transport centre for photoreduction of chromium (VI) and photodegradation of methyl violet. *Journal of Environmental Chemical Engineering*, 12(2): 112344.
- Saikia, S., Saikia, M., Khanam, S.A., Lee, S., Park, Y.B., Saikia, L., Gogoi, G. and Bania, K.K. (2023). Cobalt oxide decked with inorganic-sulfur containing vanadium oxide for chromium (VI) reduction and UV-light-assisted methyl orange degradation. *Materials Advances*, 4(23): 6244-6258.
- Sarmah, D., Choudhury, A., and Bora, U. (2024). Palladium nanoparticle catalyzed synthesis of indoles *via* intramolecular Heck cyclisation. *Organic & Biomolecular Chemistry*, 22: 6419-6431.
- Sarmah, M., Sarmah, D., Dewan, A., Bora, P., Boruah, P. K., Das, M. R., Bharali, P., and Bora, U. (2023). Dual Responsive Sustainable Cu₂O/Cu Nanocatalyst for Sonogashira and Chan-Lam Cross-Coupling Reactions. *Catalysis Letters*, 153(5): 1423-1437.
- Sharma, H. Kalita, B. K. Pathak, D. and Sarma, B. (2024). Low Molecular Weight Supramolecular Gels as a Crystallization Matrix. *Crystal Growth & Design*, 24 (1): 17–37.
- Sharma, M., Hussain, N., Mohanty, S., Puzari, P., and Deb, P. (2023). Robust energy storage performance enabled by the interacting interface of an epitaxial hybrid nanostructure based flexible supercapacitor. *Journal of Energy Storage*, 72: 108345.
- Sultana, S. Y., Sharma, M., Talukdar, H., Begum, T., Gour, N. K., Sarma, B., and Islam, N. S. (2024). New Mixed Ligand Oxido-Vanadium(V) Complexes with O,O-Donor and Diimine Ligands: Synthesis, Crystal Structure and Catalytic Activity in Eco-Friendly Oxidation of Olefins and Phenol. *Molecular Catalysis*, 565: 114352.
- Talukdar, H., Gogoi, S. R., Sultana, S. Y., Begum, R., Dowerah, D., Sarma, B., and Islam, N. S. (2023). Oxido- and Mixed-Ligand Peroxido Complexes of Niobium (v) as Potent Phosphatase Inhibitors and Efficient Catalysts for Eco-Friendly Styrene Epoxidation. *Dalton Transactions*, 52 (29): 10165–10182.
- Talukdar, H., Gogoi, S.R., Sultana, S.Y., Begum, R., Dowerah, D., Sarma, B. and Islam, N.S. (2023). Oxido-and mixed-ligand peroxido complexes of niobium (V) as potent phosphatase inhibitors and efficient catalysts for eco-friendly styrene epoxidation. *Dalton Transactions*, 52(29):10165-10182.
- Talukdar, H., Saikia, G., Das, A., Sultana, S.Y. and Islam, N.S. (2023). Organic-solvent-free oxidation of styrene, phenol and sulfides with H₂O₂ over eco-friendly niobium and tantalum based heterogeneous catalysts. *Journal of Industrial and Engineering Chemistry*, 121:249-263.
- Walling, B., Bharali, P., Ramachandran, D., Viswanathan, K., Hazarika, S., Dutta, N., and Mudoi, P. (2023). In-situ biofabrication of bacterial nanocellulose (BNC)/graphene oxide (GO) nano-biocomposite and study of its cationic dyes adsorption properties. *International Journal of Biological Macromolecules*, 251: 126309.
- Walling, B., Borah, A., Hazarika, S., Bharali, P., Ramachandran, D., Kanagasabai, V., and Dutta, N. (2024). Production of bacterial nanocellulose as green adsorbent matrix using distillery wastes for dye removal: a combined approach for waste management and pollution mitigation. *Biomass Conversion and Biorefinery*, 1-17.
- Zeleke, T. Y.; Kalita, B. K.; Sarma, B. Molecular Salts of Drug Famotidine with Isomeric

Dihydroxybenzoic Acids. (2024). *Crystal Growth & Design*, 24 (3): 963–976.

Publication of Books

Publication of Book Chapters

1. Gogoi, G., Bora, T. J., Devi, A., and Bania, K. K. (2024). Tea Extract-Mediated Green Synthesis of Metal Nanoparticles and its Applications: A Brief Overview. In Hait, M. editor, *Recent Trends in Nanochemistry and Nanotechnology*. Volume 3, ISBN: 978-93-6135-101-3. pages 97-108, AkiNik Publications, New Delhi.
2. Hoque, N. and Bania, K. K. (2024). Advancements of Anode Materials for Direct Methanol Fuel Cell Development. In Hait, M. editor, *Recent Trends in Nanochemistry and Nanotechnology*. Volume 3, pages 25-52, ISBN: 978-93-6135-101-3. AkiNik Publications, New Delhi.
3. Hoque, N., Gogoi, G., Muzaddadi, I., Bania, K. K., and Murugan, A. (2024). Green Technologies in E-Waste Management: A Comprehensive Exploration of Nanomaterial Recovery and Sustainable Practices. In Hait, M. editor, *Recent Trends in Nanochemistry and Nanotechnology*. Volume 3, pages 67-81, ISBN: 978-93-6135-101-3. AkiNik Publications, New Delhi.
4. Chutia, B., Goswami, C., and Bharali, P. (2023). Metal Oxide-Based Electrocatalysts for Metal-Air Batteries. In *Metal-Air Batteries* (pp. 209-225). CRC Press.
5. Chetry, R., Bhuyan, S. P., and Bharali, P. (2024). Bimetallic Nanoparticles for Electrocatalytic Oxygen Reduction and Urea Oxidation Reactions, In *Nova Science Publishers*, (ISBN: 979-8-89113-496-6).
6. Borah, S., Das, R., Thakuria, B.R., Das, P., and Gogoi, B. (2024). Organic Polymers as Potential Catalysts, Organic Polymers in Energy-Environmental Applications, 153-174, ISBN: 978-3527352371.
7. Sultana, N., Hazarika, I., and Gogoi, B. (2024). Organic Polymer Based Photodetectors: Mechanism and Device Fabrication, Organic Polymers in Energy-Environmental Applications, 333-354, ISBN: 978-3527352371.

Publication of Articles in Other Forms

1. Bora, U. (2023, August). Vinna Rangi Hydrogen. *Vigyan Barta*, 24-25.
2. Bora, U. (2024, June). Ethylene Oxide aru Eyar Vyavahar. Notun AAvishkar, 22-24.
3. Ozah, B. (2023, May). T3, T4, TSH আৰু খাদ্য. *আইনা জীৱন*, 6(5), 10-13.
4. Ozah, B. (2023, August). বিশ্ব স্তনপান সপ্তাহ-মাতৃ সকললৈ এক বাৰ্তা. *আইনা জীৱন*, 6(7), 51-53.
5. Ozah, B. (2023, October). দিনচৰ্যা আৰু স্বাস্থ্যচৰ্যা-আয়ুৰ্বেদ বনাম আজিৰ জীৱনশৈলী. *আইনা জীৱন*, 6 (9), 58-61.
6. Ozah, B. (2023, November). খাদ্য সামগ্ৰীৰ পুষ্টিগত তথ্য বা লেবেল পঢ়াৰ প্ৰয়োজনীয়তা আছেনে ?. *আইনা জীৱন*, 6(10), 79-82.
7. Ozah, B. (2024, January). Omega-3 ৰ আৱশ্যকতা. *আইনা জীৱন*, 7(1), 39-42.
8. Ozah, B. (2024, March). স্বাস্থ্যৰ চক্ৰ-গুৰুত্বপূৰ্ণ পৰ্যায় আৰু কৰণীয়তা, *Anunaad "The Annual Science Magazine"*, Vol-X, 34-39.
9. Ozah, B. (2024, July). ছালৰ বাৰ্ধক্য, পুষ্টি আৰু SPF. *আইনা জীৱন*, 7(6), 60-63.
10. Ozah, B. (2024, August). পেষ্টিছাইডৰ প্ৰভাৱ সম্বন্ধে আপুনি সজাগনে? 7(7), 18-22.

11. Dutta, N. (2023, November) তাহানিৰ চাইকেলৰ প্ৰাসঙ্গিকতা আজিৰ প্ৰজন্মই কি অনুভৱ কৰে? দৈনিক অগ্ৰদূত.

12. Dutta, N. (2024, January) ক্ৰিকেট, বিশ্বকাপ, আইপিএল আৰু আমাৰ আবেগ, দৈনিক অগ্ৰদূত.

Conference/Workshop/Symposium/Seminar etc. Attended

Name of Faculty /Staff Member	Purpose of Attending	Title of Event	Date/ Period	Organizer and Venue (Online/Offline)
	Member of Expert Committee	Meeting of the DST-SERB International Research Experience (SIRE) Selection Committee	28-29 April, 2023	North-Eastern Hill University, Shillong
	Member of National Organising Committee	International Conference on Modern Trends in Inorganic Chemistry (MTIC 2023)	14-16 Dec, 2023	Indian Institute of Science (IISc), Bangalore
	Session Chairperson	International Conference on SusChemHeca- 2024	14-15 March, 2024	Department of Chemical Sciences, Tezpur University
	Chairperson	In-service Teachers' Training- 2024	25-26 July, 2024	Department of Education, Tezpur University
	Speaker	Fostering Catalysis for Societal Benefit- FCSB2024	15 th -17 th Jan'2024	School of Chemistry, University of Hyderabad
	Speaker	International Conference on Advanced Nanomaterials and Nanotechnology - ICANN 2023	29 th Nov- 1 st Dec' 2023	Centre for Nanotechnology, Indian Institute of Technology Guwahati
	Speaker	International Conference in Emerging Trends in Chemistry	16-17 March, 2023	Assam Don Bosco University
	Speaker	International Conference on Recent Advances in Materials Chemistry and Catalysis (RAMCC- 2023) organized by Dibrugarh University	1-3 March, 2023	Dibrugarh University

Dr. Bipul Chandra Sarma	(i) State Organising Committee member (ii) Resource Person cum evaluator	31 st National Children's Science Congress, 2023	8-11 th November, 2023	ASTEC Assam
Dr. Nipu Dutta	Resource person	Solid Waste Management and Vermicomposting	25, 30 th May, 2024	Dakshin Kamrup College, Kamrup

Invited Talk

Name of Faculty Member	Title of the Talk	Title of the Event	Date	Organizer and Venue
Prof. Nashreen S. Islam	Women Empowerment through Science and Technology	International Women's Day 2023	14 March, 2023	Defence Research Laboratory (DRL), DRDO, Tezpur
Prof. Robin Kumar Dutta	Technologies for treatment of Arsenic & Fluoride contamination in context with rural areas in India	WaterEx World Conference on Water securing sustainable life and economic development	6 March, 2024	ChemTech, Bombay Exhibition Centre, Goregaon East, Mumbai
	Zeolites and their Catalytic Applications	Frontiers in Materials Sciences: Challenges and Opportunities	7-8 March, 2024	Department of Chemical Sciences, TU
	Light Harvesting Materials for Photodegradation of Organic Pollutants and Reduction of Cr(VI) ions	National Seminar on Science, technology & Innovation-II	22-23 March, 2024	Department of Chemistry Arya Vidyapeeth College
	How to Write Research Papers	Two days' Workshop on Research Methodology	10-11 March, 2024	Department of Chemistry
	Multifunctional Molecular Magnetic Materials	National Seminar on Science Technology & Innovation-II	22-23 March, 2024	Department of Chemistry, Arya Vidyapeeth College
	Designing Multifunctional Molecular Magnetic	National Conference on	1-2 March, 2024	Department of Chemistry, IIT

Dr. Nayanmoni Gogoi	Materials	“Recent Trends in Chemical Sciences and Technology”		Patna
	Engineering Multifunctional Molecular Magnetic Materials	31 st National Conference “Condensed Matter Days (CMDAYS 2023)”	22-24 January, 2024	Department of Physics, Tezpur University
	How to survive a PhD	National Workshop on Augmentation of Skills for Multidisciplinary Research	19-25 January, 2024	J. B. College Women Cell & Research and Development cell, J. B. College
Dr. Sajal Kumar Das	Diastereoselective Synthesis of Cis-F Used Bis Chromans/Tetrahydroquinolines/Tetralins via Tandem Semi-Pinacol Rearrangement/Double Friedal-Crafts Cyclisation	National Conference on Advanced Research in Chemical Sciences (ARCS-2023)	21-22 December, 2023	Assam University, Silchar
	Fundamental Role of Interfaces in Electrocatalytic Enhancement: Case Studies of Oxide/Oxide Interfaces	International Conference on Sustainable Chemistry & Engineering	16 September, 2023	Institute of Chemical Technology (ICT), Mumbai
	1) Electronic Spectroscopy 2) Chemistry of Nanomaterials and Applications	InSCIgnis 2024	29 February, 2024	Department of Chemical Sciences, Tezpur University
	Nano-Electrocatalytic Materials toward Energy and Environmental Sustainability	SERB sponsored National Workshop “Frontiers in Materials Sciences: Challenges and Opportunities”	08 March, 2024	Department of Chemical Sciences, Tezpur University
	Small but Beautiful Chemistry	Ganit Prajna Samvardhan 2023	21, 22 November, 2023	Vivekananda Kendra Vidyalay, Tezpur

Dr. Bipul Chandra Sarma	Discovery and Synthesis of Quantum Dots	The Nobel Prize in Chemistry 2023: Nobel Prize Lecture Series, Tezpur University	14-16 September, 2023	Tezpur University
	Developing Innovative Practices in research (Theme V)	Online Short Term Course on NEP Orientation and Sensitization	02-07-2024 to 11-07-2024	MMTTC, Tezpur University
	Hybrid Medicines: A Crystal Engineering Approach to Improve Properties of Fickel Drugs	International Conference on Emerging Trends in Biochemistry	11-13 March, 2024	Nalbari College, Nalbari, Assam
	Research Methodology	Workshop on Research Methodology	22 March, 2024	Nalbari College, Nalbari, Assam

Awards/Honours/Notable Achievements

Name of Awardee	Designation of Awardee	Achievement	Event/Awarded by
Prof. Niranjana Karak	Faculty member	Appointed as Co-Chair, Expert Committee- Biotechnology carrier advancement & re-orientation programme (BioCARE)- Bioengineering and biomaterials area, 2022-2025	Department of Biotechnology, New Delhi
Dr. Robin Kumar Dutta	Faculty member	Implemented 400 household and one communal Fluoride Nilogon filters in Ad Dali Governorate of Yemen in collaboration with ZOA as a 2 nd Phase under a MoU signed between TU and ZOA Yemen.	Funded by ZOA
Dr. Pankaj Bharali	Faculty member	Invited Visiting Scientist, Ruhr University Bochum, Germany	CRC-TRR 247, Ruhr University Bochum, Germany
Dr. Bipul Chandra Sarma	Faculty member	Editorial Board Member	Journal of Pharmaceutical Science (Elsevier)

Prof. Panchanan Puzari	Faculty member	Research Guidance of one year was provided to an international student. Mr. Deffo Gullit. Country of origin: Cameroon	DBT TWAS Sandwich Postgraduate fellowship
Dr. Bipul Chandra Sarma	Faculty member	Guest Editor	Crystal Growth & Design (American Chemical Society, ACS)
Dr. Bedanta Gogoi	Technical Officer	Guest Editor	Photonics (MDPI)
Ms. Shaheen Parveez Bhuyan	Research Scholar	PhD Exchange fellow, University Duisburg-Essen, Germany	University Duisburg-Essen, Germany
Mr. Bhrigu K. Pegu	Research Scholar	PhD Exchange fellow, Ruhr University Bochum, Germany	Ruhr University Bochum, Germany
Mr. Subir Biswas	Research Scholar	CSIR-SRF for pursuing Ph.D.	CSIR, Govt. of India
Miss Arpita Devi	Research Scholar	DST-INSPIRE-SRF for pursuing Ph.D	DST, Govt. of India
Mr. Tonmoy Jyoti Bora	Research Scholar	DST-INSPIRE-SRF for pursuing Ph.D	DST, Govt. of India
Sahtaz Ahmed	Research Scholar	CSIR-Direct-SRF	CSIR, Govt. of India
Miss Sayanika Saikia	Research Scholar	Best poster award Title of the poster: Reduction of chromium (VI) and UV light assisted degradation of methyl orange dye using sulfur doped cobalt oxide containing vanadium oxide	Science, Technology & Innovation-II (March 22-23, 2024), Department of Chemistry, Arya Vidyapeeth College (Autonomous)
Miss Kankana Baruah	Research Scholar	Best poster award Title of the poster: Efficacious usage of a polymeric organogel for sustainable environment by extrusion of cationic dyes from contaminated water resources	International Symposium on Emerging Trends in Chemical Sciences – ETCS 2023
Miss Jurita Baishya	Research Scholar	Best poster award Title of the poster: Impact of Nanoclay on the Properties of Citric Acid Crosslinked	SPSI-MACRO-2023

		Green Composites Based on Coconut Fiber and Modified Vegetable Oil	17 th International Conference on Polymer Science and Technology, IIT Guwahati
Barsha Chakraborty	Research Scholar	Awarded ACS best poster Title of Poster Presentation: Cooperative Activation of Small Molecules by Base-Stabilized Borylenes	RAMCC-2023: International Conference on Recent Advances in Materials Chemistry & Catalysis. (Department of Chemistry, Dibrugarh University, India, March 1-3, 2023)

Number of Students Qualified in NET-JRF/SLET/GATE etc.

Name of Qualifying Examination	Number of Qualified Students	Academic Programme
NET-JRF-LS	8	Ph.D./ M.Sc./ Int. M.Sc.
GATE	3	Ph.D./ M.Sc./ Int. M.Sc.

Notable Placement of Students

Name of Student	Academic Programme	Placement Designation	Company/ Organization	Mode of Selection
Dr. Gangutri Saikia	Ph.D. (TU)	Assistant Professor	Nagaon College	Off-campus
Dr. Hiya Talukdar	Ph.D. (TU)	Assistant Professor	B.B. Kishan College, Baksa	Off-campus
Dr. Rajkamal Mohan	Ph.D. (TU)	Scientist	Directorate of Forensic Science, Assam	Off-Campus
Dr. Rituraj Das	Ph.D. (TU)	Assistant Professor	Morigaon College, Morigaon	Off-campus
Dr. Shahnaz Ahmed	Ph.D. (TU)	Assistant Professor	Majuli College	Off-campus
Dr. Bijoy Ghosh	Ph.D. (TU)	Assistant Professor	Dhakuakhana College	Off-campus

Enrollment of Students in other Institutes for Higher Studies

Name of Student	Academic Programme (in TU)	Name of other Institute	Enrolled Academic Programme
Dr. Nazimul Hoque	Ph.D.	CSIR-NEIST, Jorhat	Research Associate
Dr. Mitu Sarma	Ph.D.	Missisipi State University, USA	Post-Doc
Dr. Asadulla Asraf Ali	Ph.D.	Centre for earth Sciences, IISc, Bengaluru	Post-Doc

PhD awarded/thesis submitted

Name of Student	Title of Thesis	Name of Supervisor	Year
Dr. Bijoy Ghosh	Theoretical Studies on Monovalent Group 13 and Divalent Group 14 carbenoids, Metallotranes and Model Systems for Dinitrogen Reduction	Prof. Ashwini Phukan	2023
Dr. Raktim Abha Saikia	Exploration of Diaryliodonium Salts for N- and S-Arylations of Biologically Significant Heterocyclic Scaffolds	Prof. Ashim Jyoti Thakur	2023

Dr. Dimpee Sarmah	Polysaccharide based Hydrogel and their Potential Applications	Prof. Nirajan Karak	2023
Dr. Tamrat Yimenu Zeleke	Multicomponent Crystals of Femotidine and Trimethoprim as Improved Pharmaceutical Materials: Design, Characterization, and Properties	Dr. Bipul Chandra Sarma	2023
Dr. Asadulla Asraf Ali	A Scientific Study on Sancipal Manuscript and Hengul Hiatal Painting Traditions of Early and Medieval Assam	Prof. Rabin Kumar Dutta	2023
Dr. Ashok Bora	Biobased Superabsorbent Hydrogels and their Potential Applications	Prof. Nirajan Karak	2023
Dr. Anurag Dutta	Development of "on-water" reaction strategies for the synthesis of N- and O-heterocycles using alkyl/arylidene barbiturates	Prof. Ashim Jyoti Thakur	2023
Dr. Manash Jyoti Boruah	Design of Iron and Cobalt-Based Catalysts for Alcohol Oxidation and Oxidative C-C Coupling Reactions	Prof. Kusum Kumar Bania	2023
Dr. Priyankamoni Saikia	Study of the Sensing and Photocatalytic Potentials of Some Perovskite-based Materials	Prof. Saapan Kumar Dolui and Dr. Sanjeev Pran Mahanta	2023
Dr. Riku Dutta	Studies on desalination and deoiling of wastewater from the oilfields: optimization of separation method and improving the quality of water	Prof. Swapan Kumar Dolui	2023
Dr. Prantika Bhattacharjee	Development of Catalytic Strategies for Selective Functionalization of Indoles and Related <i>N</i> -Heterocyclic Compounds	Prof. Utpal Bora	2023
Dr. Dipika Konwar	Strategic Functionalization of Indoles and Oxidative Coupling Reactions	Prof. Utpal Bora	2023
Dr. Gorishmita Borah	Phosphonate functionalized <i>N</i> -heterocyclic carbenes and zirconium phosphate supported CdS quantum dots: Application in aerobic oxidation reaction	Dr. Nayanmoni Gogoi	2023
Dr. Bhugendra Chutia	Non-precious Hybrid Metal-Oxide Based Electrocatalysts for Energy Applications	Dr. Pankaj Bharali	2023

Dr. Debarat Pathak	Engineering Nitrogen-Rich Porous Organic Polymer as Heterogeneous Catalyst for Organic Transformation Reactions	Dr. Bipul Sarma	2023
Dr. Nobomi Borah	Bio-based epoxy Thermosets and Their Composites	Prof. Nirajan Karak	2024
Dr. Nazimul Hoque	Nickel Hydroxide Based Hybrid Catalysts for Electrochemical Oxidation of Methanol and Ethanol	Prof. Kusum Kumar Bania	2024
Dr. Gautam Gogoi	A Study on Some Cu(II)-Phenanthroline Complexes and CuO-based Nanocatalysts for Alcohol Oxidation, C-C, C-N Bond Formation	Prof. Kusum Kumar Bania	2024
Bikash Chandra Mushahary	Methodological Development for Sensing of Fluoride ion in Aqueous Medium Using Organic Probe Molecules (Thesis submitted)	Dr. Sanjeev Pran Mahanta	2024
Dr. Sudakhina Saikia	Metal Oxide-based Nanostructures: Synthesis, Characterization, and their Application	Prof. Ramesh Deka	2024
Dr. Shahnaz Ahmed	Development of Stable Perovskite based Nanocomposites and their Fluorometric Sensing Applications	Prof. Swapan Kumar Dolui	2024
Dr. Suman Lahkar	Development of Electrocatalysts for Hydrogen Evolution Reaction in Acidic Medium	Prof. Swapan Kumar Dolui & Prof. Panchanan Puzari	2024
Dr. Sudhamoye Katakya	Exploration of Synthetic Methodologies for Carbon-Carbon and Carbon Heteroatom (N,O,S) bond formation reaction Catalysed by Cu and Pd	Prof. Ashim Jyoti Thakur	2024
Kankana Baruah	Development of Polymeric Organogel for the Removal of Toxic Pollutants in Water (thesis submitted)	Prof. Swapan Kumar Dolui	2024
Dr. Dikshita Dowerah	Studies on Structure and Dynamic of Bridged Nucleic Acid based using Density Functional Theory and	Prof. Ramesh Deka	2024

	Molecular Dynamics Approach for Targeted RNA Therapeutics		
Rashmi Chetry	Design of Pd based Electrocatalysts for Oxygen Reduction Reaction	Dr. Pankaj Bharali	2024
Bikash Chandra Mushahary	Methodological Development for Sensing Fluoride ion in Aqueous Medium Using Organic Probe Molecules	Dr. Sanjeev Pran Mahanta	2024
Dr. Sukanya Das	Studies on the Physicochemical Properties of Acidic Ionic Liquids and Their Applications	Prof. Ruli Bora	2024
Dr. Annesha Kar	Sustainable Waterborne Poly(ester-amide) Nanocomposites and their Potential Applications	Prof. Niranjana Karak	2024
Nishanta Biswakarma	NO Oxidation Over Bare and zeolite Supported Precious Transition Metal Cluster using Quantum Mechanical Approaches (Thesis submitted)	Prof. Ramesh Deka	2024
Dr. Hiya Talukdar	Synthesis and characterization of homo and hetero-leptic niobium complexes. Exploration of their catalytic and biochemical potential	Prof. Nashreen S. Islam	2024
Dr. Niharika Kashyap	Strategic Design and Utilization of Task Specific Ionic Liquids and Ionic Liquid-Polyoxometalate Hybrids	Prof. Ruli Bora	2024

Outreach and extension activity by the faculty members/researchers/staff

Name of Faculty/staff	Duty/responsibility	Title of the Event	Date	Organizer and Venue
Prof. Ashim J. Thakur	Resource person			
Prof. Utpal Bora, Mr. Sankur Phukan, Mr. Biplob Ozah	Chemistry workshop			
Prof. Kusum K. Bania	Speaker			
Dr. Nayanmoni Gogoi	Speaker			

Dr. Bipul C. Sarma	Speaker			
Mr. Biplob Ozah	Speaker	National Safai Karamcharis Finance and Development Corporation	23 rd and 26 th September, 2023	Biswanath Chariali Municipality Safai Karamchari, and Tezpur Municipality Safai Karamchari,
All staff members	Laboratory demonstration to the students of: Koliabor College, Sonitpur. Ambagan High School. Moran Higher Secondary School. Darrang College, Sonitpur.	Educational purpose	2023	Department of Chemical Sciences, Tezpur University
Dr. Sajal Kumar Das	Speaker			
Dr. Nipu Dutta	Speaker			
Prof. Ashim J. Thakur	Speaker			
Prof. Kusum K. Bania	Speaker			
Dr. Nayanmoni Gogoi	Speaker			
Dr. Sajal Kumar Das	Resource Person and speaker			
Dr. Bipul C. Sarma	Speaker			
Dr. Bedanta Gogoi, Sankur Phukan & Biplob Ozah	Chemistry workshop			
All staff members	Laboratory demonstration	Educational purpose	2024	Ambagan High School

Seminars/Workshops/Symposium organized

Name	Date	Venue
National Seminar on “Intrigues of Recent Focus in Polymer Research: Part-II”	14 October, 2023	Department of Chemical Sciences, Tezpur University
International Seminar on “Current Trends of Research in Chemistry Towards Sustainability Healthcare, and forensic Analysis”	14-15, March, 2024	Department of Chemical Sciences, Tezpur University
Workshop on “Frontier in Material Sciences, Challenges, and Opportunities”	7-8 March, 2024	Department of Chemical Sciences, Tezpur University

CENTRE FOR DISTANCE AND ONLINE EDUCATION (CDOE)

ABOUT CDOE

The Centre for Distance and Online Education (CDOE), renamed under the UGC (Open and Distance Learning Programmes and Online Programmes) Regulations, 2020, from the 'Centre for Open and Distance Learning' (CODL), was founded in 2011 with the goal of disseminating knowledge and providing quality education via open and distance learning. Currently, the Centre provides a variety of post-graduate, post-graduate diploma, and certificate programs in developing areas such as social sciences, management, and humanities, all delivered through a flexible and learner-friendly teaching-learning system. CDOE is in the process of offering online programs shortly in view of NEP 2020 and in line with the UGC Regulations.

The academic programmes are carefully planned to meet the needs of the time, and courses are revised on a regular basis in conjunction with the offering departments. Stakeholder feedback from students, teachers, parents, professors, and employers is also taken into consideration. CDOE delivers high-quality study materials created and edited by qualified academic members. To satisfy the learners' ambitions, the Centre provides all possible support and advice, as well as the necessary infrastructure. The number of Learner Support Centres is increasing throughout the state of Assam. Examination centers are constructed with superior facilities within easy access of learners from various regions.

CDOE has its own infrastructural facilities like well equipped Conference Room, Library with a good numbers of books, students lounge, faculty rooms etc.

With dedicated faculty and staff, the Centre is committed to facilitate high quality learning for those who cannot avail higher education in face to face mode and those who look upon learning as a life-long activity.

Academic Programmes and Student Intake

Programme	Intake
MA Sociology	
MA Mass Communication and Journalism	
MA English	
Diploma in Human Resource Management	
Diploma in Child Rights and Governance	
Diploma in Environmental and Disaster Management	

MAJOR FACILITIES AND EQUIPMENT AVAILABLE

- Departmental Library with good number of books and reading facilities
- Well-equipped Conference Room with smart TV
- Projector
- Common Student lounge
- Utility room for female students with necessary facilities
- Independent pantry for staff

Publications

Journal Publications

Pradip, Sunita, S., & Kumar A. (2023). Family Quality of Life of Individuals with Intellectual and Developmental Disabilities: A Case Study, National Journal of Education, XXII(2), 27-40.

Rai, A., & Kumar, A. (2023). भारतीय विद्यार्थियों में बढ़ती गणित भीति एवं उसे कम करने के उपाय, भारतीय वैज्ञानिक एवं औद्योगिक अनुसन्धान पत्रिका, 31(2), 142-148, <https://nopr.niscpr.res.in/handle/123456789/62990>, <https://doi.org/10.56042/bvaap.v31i2.6390>

Kumar, A., Tripathi, K.K., & Singh, R.R. (2023) राष्ट्रीय शिक्षा नीति 2020 के आलोक में ऑनलाइन एवं दूरस्थ माध्यम से समावेशी उच्च शिक्षा: संभावनाएं एवं चुनौतियाँ, ज्ञान गरिमा सिंधु, 80, 213-218, <https://cstt.education.gov.in/sites/default/files/ggs-80.pdf>

Watitemjen, & Kichu, P. A. Prospect of future vaccination through the lens of geriatric population: A structural equation model approach based on the Covid-19 vaccine. Research Gate; Fazl Ali College Journal. ISSN: 2319-6769, Vol. 11. 2023. Pp.25-40.

Borah, T. and Hazarika, M. (2023). Reviewing the Fake News Conundrum: A Study of Literature Concerning COVID-19 from India. In Ganjoo, M. et.al. (eds) Media Issues and Debates in Contemporary India, Iterative International Publishers, New Delhi. 180-188. ISBN: 978-93-5747-151-0

Borah, T. et al. (2023). Socializing Children in an Unequal World: Gender Disparities in Indian Cartoon Shows. Communicator. LVIII (1&2), ISSN: 0588-8093, IIMC, New Delhi (UGC CARE listed)

Sachdeva, G., Ganjoo M. and Borah, T. (2024). The Study of Comparative Analysis of Newspaper Coverage of Marital Rape Debate in 2022. International Journal of Religion, 5(10), 1108-1126. (Scopus listed)

Print Publications

Bora T. Dress Code: Calls for Deeper Examination. (2023, September 9). The Assam Tribune, Editorial page.

Bora T. The 'She' Factor. (2023, September 10). The Assam Tribune, Sunday Reading, Feature article.

Bora T. Unburdened and Free. (2023, October 8). The Assam Tribune, Sunday Reading, Opinion article.

Bora T. Ensuring Justice for the Survivors of Marital Rape. (2023, November 25). The Assam Tribune, Editorial page, Opinion article.

Book

Chakraborty, J., Borah, A., Hazarika, M., & Borah, T. Introduction to the Art and Craft of Journalism. Bookland, Guwahati. 2024. ISBN:9789390087785

Goswami S, Sarma, J. Intellectual Property Rights. Kalyani Publishers. Guwahati. 2023. ISBN 978-93-5540-142-7

Seminars/Conferences/Workshops/Symposia Attended

Name of the faculty member	Title of the paper	Organized by	Date/Period, year	Place/institute/venue
Dr Akhilesh Kumar	Community Radio Awareness	Mins. Of Info and Broadcasting, GOI.	02 February, 2024	Guwahati
Dr Akhilesh Kumar	The Role of Technical Terminology in the Development of Higher Education	Dept of Hindi, Tezpur University	14 March, 2024	Tezpur University

Talks By The Faculty Members Abroad And In India

Name of the faculty member	Event	Date/Period, year	Place /institute/venue
Dr Suchibrata Goswami	Promotion and Protection of Traditional Knowledge of NE India	14-07-2023	CSIR-NEIST, Jorhat

Suchibrata Goswami	Copyright in Academics	21-07-2023	Guwahati College
Dr Akhilesh Kumar	Skill Development Need and Importance	21-11-2023	MMTTC, Coimbatore Institute of Technology, Coimbatore
Dr Akhilesh Kumar	Skill Development: Challenges in India	22-11-2023	MMTTC, Coimbatore Institute of Technology, Coimbatore
Dr Akhilesh Kumar	Teaching Children with SLD in an Inclusive Classroom	30-11-2023	International CRE Program, IITE, Ahmedabad
Dr Akhilesh Kumar	Higher Education and Society	05-12-2023	MMTTC, Osmania University
Dr Akhilesh Kumar	Student Diversity and Inclusive Education	12-12-2023	MMTTC, University of Rajasthan
Dr Akhilesh Kumar	Higher Education and Society	18-12-2023	MMTTC, Devi Ahilya Vishwavidyalaya Indore
Dr Akhilesh Kumar	Higher Education and Society	22-12-2023	Ishwar Saran PG College, University of Allahabad, Prayagraj
Dr Akhilesh Kumar	Alternative Modes of Learning	13-01-2024	MMTTC Sagar University
Dr Akhilesh Kumar	Skill Development	16-01-2024	University of Rajasthan
Dr Akhilesh Kumar	Student Diversity and Inclusive Education	23-01-2024	Dr. Harisingh Gour Vishwavidyalaya
Dr Akhilesh Kumar	Higher Education and Society	27-01-2024	North-Eastern Hill University, Shillong
Dr Akhilesh Kumar	Creating and Selecting Materials that cater to diverse learning styles	29-01-2024	All India Institute of Speech and hearing Mysuru

Dr Akhilesh Kumar	Higher Education and Society	31-01-2024	Osmania University
Dr Akhilesh Kumar	Understanding Children in Multiple Contexts	04-02-2024	Ishwar Saran PG College, University of Allahabad, Prayagraj
Dr Akhilesh Kumar	Developmental Process: Issues and Challenges: Cognitive, Emotional and Moral	04-02-2024	Sardar Patel Police University, Jodhpur
Dr Akhilesh Kumar	Higher Education and Society	07-02-2024	Sardar Patel Police University, Jodhpur
Dr Akhilesh Kumar	Perspectives of Self and Personality Development: Attributes of Personality, Theories of Personality Development, Deviant personality	11-02-2024	MMTTC, Devi Ahilya Vishwavidyalaya Indore
Dr Akhilesh Kumar	Educational Provisions of RPWD Act 2016	13-02-2024	Sardar Patel Police University, Jodhpur
Dr Akhilesh Kumar	Classroom Strategies for Students with IDD	13-02-2024	NIEPVD, Mizoram university and Samagra Shiksha and CRC Guwahati
Dr Akhilesh Kumar	Assessment for Learning	14-02-2024	NIEPVD, Mizoram university and Samagra Shiksha and CRC Guwahati
Dr Akhilesh Kumar	Creating a stimulating classroom environment	14-02-2024	NIEPVD, Mizoram university and Samagra Shiksha and CRC Guwahati
Dr Akhilesh Kumar	Removing Infrastructural Barriers	15-02-2024	NIEPVD, Mizoram university and Samagra Shiksh and CRC Guwahati

Dr Akhilesh Kumar	Higher Education and Society	19-02-2024	NIEPVD, Mizoram university and Samagra Shiksha and CRC Guwahati
Dr Akhilesh Kumar	Removing Infrastructural Barriers	26-02-2024	MMTTC, DAVV, Indore
Dr Akhilesh Kumar	Inclusive Education in NEP 2020	26-02-2024	NIEPVD and CRC Guwahati
Dr Akhilesh Kumar	Creating a stimulating classroom environment	27-02-2024	NIEPVD and CRC Guwahati
Dr Akhilesh Kumar	Strategies and Provisions for Inclusive Education and the NEP 2020	29-02-2024	MMTTC, Osmania University
Dr Akhilesh Kumar	Introduction to Counselling: Definition, Personal and Professional Aspects, Qualities of Good Counsellor	10-03-2024	Sardar Patel Police University, Jodhpur
Dr Akhilesh Kumar	Strategies and Provisions for Inclusive Education and the NEP 2020	11-03-2024	MMTTC, Sagar University
Dr Akhilesh Kumar	Strategies and Provisions for Inclusive Education and the NEP 2020	11-03-2024	MMTTC Sagar University
Dr Akhilesh Kumar	Goals of Counselling: Conflict resolution, Behaviour Modification and improving Relationship, Ethical and Legal Aspects of Counselling	17-03-2024	Sardar Patel Police University, Jodhpur
Dr Akhilesh Kumar	Approaches to counseling: Psychodynamic, Cognitive Behavioural, Person-centered and systems approach	06-04-2024	Sardar Patel Police University, Jodhpur

Dr Akhilesh Kumar	Physical Disabilities: Concept, Types and Clinical Picture	13-04-2024	Sardar Patel Police University, Jodhpur
Dr Akhilesh Kumar	Intellectual Disabilities and Specific Learning Disabilities: Concept, Types and Clinical Picture	20-04-2024	Sardar Patel Police University, Jodhpur
Dr Akhilesh Kumar	Inclusive Education	21-06-2024	CSJMU, Kanpur
Dr Akhilesh Kumar	Student Diversity and Inclusive Education	22-06-2024	MMTTC, Sagar university
Dr Akhilesh Kumar	Research and Development	24-06-2024	MMTTC, IIT, Patna
Dr Akhilesh Kumar	Students Diversity and Inclusive Education	25-06-2024	MMTTC, DAVV, Indore

Seminar/Workshop/Symposia/Invited Lectures Organised

Title	Date/Period, year
Webinar on Community Aids in AIDS Dissemination	1 December, 2023
Webinar on Freedom, Equality and Justice for All on the occasion of World Human Rights Day	10 December, 2023
Webinar on World Energy Conservation Day	14 December, 2023

Distinguished Visitors

1. Prof. RSP Singh, Director, School of Vocational Education and Training (SOVET), IGNOU

Other Important Activities of the Department

During the academic year, CDOE took part in orienting students across the state about NEP 2020 and facilities offered by the regulation regarding distance and online education. With UGC's approval for opting two programmes simultaneously, one being distance or online

mode, the scope for higher education to all got extended enormously. Taking this as an opportunity, the faculty and staff of CDOE visited various colleges of the state and elaborated the prospective students about these unique opportunities.

As a part of this orientation, the number of Learner Support Centers has been increased to make education accessible to all kinds of stakeholders.

The Faculty Members and Staff

Director

Dr Akhilesh Kumar

Associate professor, Department of Education

Email: cdoedirector@tezu.ernet.in

Faculty

- Dr Suchibrata Goswami

Assistant professor

Email: suchitu@tezu.ernet.in

- Akumsenla Kichu

Assistant professor

Email: akumsen@tezu.ernet.in

- Dr Tinam Bora

Assistant Professor

Email: tinam@tezu.ac.in

Office Staff

- Partha Pratim Kalita

Assistant Registrar

Email: parthap@tezu.ernet.in

- Dr Bhanu P Gogoi

Senior Technical Assistant

Email: bhanubj@tezu.ernet.in

- Mr. Kalpadroom Almanyia

Computer Operator

Email: kalpa01@tezu.ernet.in

- Ms. Jeena Rabha

Office Assistant

Email: jeena01@tezu.ernet.in

- Mr. Abdul Jalil

Multi-Tasking Staff

TEACHING LEARNING CENTRE

The Centre

The Teaching Learning Centre (TLC), Tezpur University was formally inaugurated on 28 January 2016 as a Centre of Excellence for Curriculum and Pedagogy under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT) scheme. The scheme was launched by the Department of Higher Education, Ministry of Education (formerly MHRD), Govt. of India. TLC envisages developing and promoting a responsive and relevant teaching-learning system for higher education communities and contributing to excellence in teaching and learning as an innovative and resourceful Centre through reflective research-based practice and the optimal use of technology. Besides, keeping in view the needs of the academic fraternity, TLC conducted several ICT training programs enabling the teaching community to engage in online course delivery.

During the financial year 2023-24, the center has been engaged in training more than 1800 teachers and prospective teachers from across the country, assisting and encouraging them to promote best practices in the teaching-learning environment.

In September 2023 UGC has assigned the centre to conduct various programs under MMTTP Scheme. In addition to RC, FIP, STC etc the centre will regularly conduct NEP Orientation and Sensitization Program as per UGC MMTTP Guidelines till 2025-26.

Thrust Areas

Teacher Education, Innovative Pedagogy, NEP2020

Major Facilities/Equipment Available

ICT LAB with 25 PCs

Publications

Journal Publications

Ahmed, I.H. Evolutionary Ethics: Understanding its Transition. J. Indian Counc. Philos. Res. 41, 63–82 (2024). <https://doi.org/10.1007/s40961-023-00319-8>

Book Chapters

Ahmed, I. H. “ National Education Policy 2020 and its Implications for Research”, in National Education Policy 2020: Its Challenges and Prospects, Editors, Niranjana Das, Nilima Gogoi, Published by Publication Cell, Duliajan College, 2023, ISBN: 978-81-958245-0-2 PP-11-17

Bora, Swapnarani (2023). Forbidden Desires in Songs: Significance of Studying Banghoxa From Ethnomusicological Perspective. In NORTH-EAST: A Cultural Melting Pot, Ministry of Cultural Affairs, Govt. of Assam

Bora, Swapnarani (2023). A Conceptual Metaphoric Perspective on Assamese Proverbs with Reference to Animal Metaphor. In Abhigyan, Demow College, Sibsagar

Pedagogy and Content Development

Name of the Developer/ Contributor	Title of E-Content	Number of modules	Target	Access Link
	Publication Misconduct: A short Discussion	1	Teachers of HEIs and Research Scholars	https://youtu.be/ZDZWaxqHOmo
	Interactive Content Development for Better Teaching	1	Teachers of HEIs and Research Scholars	https://youtu.be/Y4PSTT_gO_A
S Bora	Modern Techniques of ICT in Education	1	Teachers of HEIs and Research Scholars	https://youtu.be/UVZnJsG6tc

Talks by the Faculty Abroad and in India

Name of Faculty Member	Title of the Talk	Title of the Event	Date	Organizer and Venue
I H Ahmed	Effective Tools and Techniques in Pedagogy	Professional Development Programme on "Effective Tools and Techniques in Pedagogy"	21 July 2023	Academy of Excellence, Pulikkal, Kerala

Seminar/ Workshop/ Symposia/ Lectures Organised

Event	Duration
Faculty Induction Program (FIP)	02-31 August 2023
FDP on Assessment and Evaluation	20-26 September 2023
FDP ON Academic Writing and Publication	25-31 October 2023
NEP2020 Orientation and Sensitization Program under UGC MMTTP	01-10 November 2023
Interdisciplinary Refresher Course on Pedagogy of Higher Education	14-28 November 2023
NEP2020 Orientation and Sensitization Program under UGC MMTTP	04-13 December 2023
Literature, Language and Culture in the Digital Age	14-28 December 2023
NEP2020 Orientation and Sensitization Program under UGC MMTTP	18-30 January 2024
Faculty Induction Program	15 february-15 March 2023
NEP2020 Orientation and Sensitization Program under UGC MMTTP	19-28 February 2024
NEP2020 Orientation and Sensitization Program under UGC MMTTP	13-22 March 2024
Online Weeklong FDP on ICT Tools for Effective Teaching-Learning	19-28 March 2024
Scientific Document Writing using LaTeX	19-23 March 2023
NEP2020 Orientation and Sensitization Program under UGC MMTTP	18-29 April 2024
NEP2020 Orientation and Sensitization Program under UGC MMTTP	06-15 May 2024
NEP2020 Orientation and Sensitization Program under UGC MMTTP	20-30 May 2024
NEP2020 Orientation and Sensitization Program under UGC MMTTP	04-13 June 2024

Director(S) of the Centre

Director (Till 23 April 2024)

Subhrangshu S Sarkar, PhD (Tezpur University)

Professor, Department of Business Administration

Email: subh@tezu.ernet.in

Director-in-Charge (24 April 2024 onwards)

Dr. Akhilesh Kumar, PhD

Associate Professor, Dept of Education

Email: akumar@tezu.ernet.in

DEPUTY DIRECTOR OF THE CENTRE (Till December 2023)

Bipul K Sarmah, PhD (Tezpur University)

Assistant Professor, Department of Mathematical Sciences

Email: bipul@tezu.ernet.in

FACULTY MEMBERS

Assistant Professor

Swapnarani Bora, PhD (Dibrugarh University)

Specializations/Area of Interest: Assamese and Cultural Studies

Email: swapnabora@tezu.ernet.in

Ikbal H Ahmed, MPhil (Delhi University)

Specializations/Area of Interest: Philosophy and Education

Email: ikbal@tezu.ernet.in

CHANDRAPRABHA SAIKIANI CENTRE FOR WOMEN STUDIES

About the Centre

Chandraprabha Saikiani Centre for Women Studies entails the journey of women studies in Tezpur University. The University Grants Commission (UGC), New Delhi approved the proposal no.F.40-13/ (2005) (GA-1) (Vol.II)/5069 dated 21.09.2009 for the establishment of Women's Studies Centre (WSC) in Tezpur University.

The centre tries to create a balance between the University Grants Commission's mandate of teaching, research and extension on one hand and the distinctiveness of women studies as an area within the academy on the other. The ultimate task is to bring a change in prevailing social attitudes, enhance collaboration between disciplines, produce new knowledge, and contribute to the north-east Indian experience through activism and research.

Vision

The CSCWS will function as a centre to co- ordinate and promote studies on women belonging to the diverse socio-cultural milieu of a multicultural North East India and the assimilation of women from marginalized tribal / non-tribal and ethnic groups through outreach activities such as field study, advocacy, workshops to enhance awareness and to train manpower to conduct research in wom- en studies. The centre shall connect, coordinate and construct a community of women who would significantly contribute towards meeting objectives of gender sensitization and empowerment in this region.

Mission

To aim for gender justice in the society.

Research Area

- Gender Studies
- Performance Research
- Gender and Mental Health
- Anthropology and Cultural Studies
- Women and Folklore
- Women and Media
- Women and Trafficking
- Women and Economy
- Life History of Women
- Women and Violence
- Women and Witch Hunting
- Women in Conflict Situations

Courses offered

- PG Diploma in Women Studies
- M.A. in Women Studies
- Ph.D. in Women Studies

Events

Title of Event	Level	Date/Period	Mode of Conduct
A Talk on Women and Indigenous Knowledge Systems: Social and Scientific perspectives	Local	19/11/24	Offline
A talk on Women and Scientific Temperament	Local	19/11/24	Offline
An invited talk on Enriching dance research with scientific perspectives	Local	19/11/24	Offline
A talk on Cyber Security Awareness	Local	29/10/24	Offline
A talk on Women, Science and Temper by Dr. Moon Moon Devi	Local	3/4/2024	Offline
A talk on Youth and Community Development by Prof. Swati Sethi	Local	3/4/2024	Offline
A Weavers Meet is organized on the occasion of National Handloom Day on 7th August, 2023	Local	8/3/2023	Offline
Event on Gender Science and Spirituality	Local	3/17/2023	Offline
A Public Exhibition on Sisters of Tezpur	Local	3/13/2023	Offline

Officers and Staff Members

Designation	Name	<email>@tezu.ernet.in
Head & Associate Professor	Dr. Madhurima Goswami	mgs
Assistant Professor	Dr. Mousumi Mahanta	mousumi
Professional Assistant	Abhijit Baishya	abhi
Data Entry Operator	Pranjal Kumar Sarma	pranjal
MTS	Malati Boro	malati
Research Associate	Dr. Ivy Daimary	ivy2

Academic Programmes and Student Intake

Academic Programme	Student Intake
<i>MA in Women Studies</i>	27
<i>Ph.D.</i>	Variable (admitted 03 in 2020) (admitted 01 in 2023)

Officers and Staff Members

Designation	Name	<email>@tezu.ernet.in	holding the current position
<i>Data Entry Operator</i>	Pranjal Sarma	pranjal	19-03-2014
<i>Professional Assistant</i>	Abhijit Baishya	abhi	19-11-2015
<i>Research Associate</i>	Dr. Ivy Daimary	ivy2	09-08-2016
<i>MTS</i>	Malati Boro	malati	29-01-2016

Research Projects (both Ongoing and New)

Project Title	Funding Agency	Amount (in INR)	Duration	Investigator(s)
Lives of the Ritual Priestesses of Assam: A Study with special reference to the Institution of Doudinis in the Bodo Society.	Indian Council of Historical Research (ICHR), New Delhi	2.5 Lakhs	2 Years (2021-23)	Dr.Madhurima Goswami
Economic Empowerment of ST population through Science, Technology and Innovation STI Hubs via Bamboo Intervention. (Approved)	Department of Science and Technology, New Delhi	Not yet sanctioned	Three years (2022-2025)	Dr.Madhurima Goswami

Publications by Faculty and Staff Members*Publication of Articles in UGC-CARE Listed Group I/Group II Journals*

- Mahanta,M, “Conflict Situation and Mental Health:A Study on Migrated Women of

Assam”. Mukti Shabd journal 11(4), September. (2023). ISSN:2347-3150, UGC CARE LIST

- Daimary, I, and Goswami, M. “Questions of Knowledge and Power: Contestations with Special Reference to the Performance of Doudinis of the Bodos of Assam”. ShodhKosh: Journal of Visual and Performing Arts, 5(1),610–618. doi: 10.29121/shodhkosh.v5.i1.2024.914. (2024).ISSN:2582-7472.UGC CARE LIST
- Goswami,G,Mahanta,M, Daimary,I. “The Ritual Priestess (Doudini) of the Bodo Community:Transition from Centre to Periphery”. Anandam: Journal of Anundoram Borooah Institute of Language,Art and Culture,Assam, vol.13. (2024).ISSN:2394-9023,UGC CARE LIST.

Publication of Book Chapters

Mahanta M. “ The Role of Chatrasing Teron in Transforming Karbi Society” in Jananeta Chatrasigh Teron aru Krbianlongar Rengoni, Ed. Prafulla Pran Mahanta, - Abhilekh: Guwahati, (2023), ISBN 978-93-93843-456

Mahanta,M, “Identity Revivalism through Folk Dances amongst the Tribal Communities of Assam”. Reflections of Dance among the Brahmaputra:Celebrating Dance in North East India. Ed. Nath Debarshi Prasad, Buck Ralph, Snook Barbara, Routledge:London&NewYork(2023).ISBN:978-1-032-45238-8

Goswami,M, “Identity Revivalism through Folk Dances amongst the Tribal Communities of Assam”. Reflections of Dance among the Brahmaputra:Celebrating Dance in North East India. Ed. Nath Debarshi Prasad, Buck Ralph, Snook Barbara, Routledge:London&NewYork. (2023). ISBN:978-1-032-45238-8

Invited Talk

Name of Faculty Member	Title of the Talk	Title of the Event	Date	Organizer and Venue
Dr. Madhurima Goswami	Security and Safety Mechanisms	Redressal Mechanisms’ regarding SHWP	8 th March,2024	Indian Statistical Institute, North East.
Dr.Goswami Madhurima	Prevention of Sexual Harassment at Workplace	sensitization workshop	8 th December, 2023	NERIWALM.
Dr.Madhurima Goswami	Saikiani’s literary contributions	Shilpi Divas	17 th January, 2024	Purvotter Hindi Sahitya Academy,Tezpur, Assam,

Dr.Madhurima Goswami	Women and Leadership	National seminar on “Women Leadership in the Contemporary World:Focus on Gender Mainstreaming”	18 th -19 th March,2024	Organized by Tezpur College sponsored by ICSSR
Dr Mousumi Mahanta	Women Leadership and Political Participation: A Comprehensive Analysis of Global Trends and Implication.	National seminar on “Women Leadership in the Contemporary World:Focus on Gender Mainstreaming”	18 th -19 th March,2024	Organized by Tezpur College sponsored by ICSSR

Other Significant Activities of the Centre

- On 5th march 2024, Chandrababha Saikiani Centre for Women Studies, Tezpur University organized an online talk on “Youth and Community Development” by Prof. Swati Sethi, Associate Dean, Institute of Rural Management, Pune. 57 numbers of participants attended the programme.
- On 6th match 2024, Chandrababha Saikiani Centre for Women Studies,Tezpur University organized an online talk on climate change by Dr. Prithivi Pratibha Gogoi, who is an Assistant professor in Royal Global University Guwahati. 80 numbers of participants attended the programme.
- On March 12, 2024, Chandrababha Saikiani Centre for Women Studies,Tezpur University organized a talk on “Women, Science and Temper” by Dr. Moon Moon Devi, Assistant professor in the department of Physics, Tezpur University. She is also a member of High Energy Physics India. 74 numbers of participants attended the talk.
- Chandrababha Saikiani Centre for Women Studies, Tezpur University at Tolgeriki,Tezpur. 40 number of women participated in the programme. organized a Legal Awareness Programme on “Women and Legal Rights” on 15th June,2023
- On the occasion of National Handloom Day, Chandrababha Saikiani Centre for Women Studies in collaboration with Tezpur Mahila Samiti organised a one day programme on "Weaver's Meet" to honour the female weavers of Assam on 7th August, 2023. A total of 120 weavers were present for the event.
- A programme on “Women in Innovation and Creativity” was organized by Intellectual Property Rights Cell (IPR), Tezpur University in collaboration with Chandrababha Saikiani Centre for Women Studies on 8th March, 2024.
- On 12th of March 2024, Chandrababha Saikiani Centre for Women’s studies, Tezpur University visited Ghana Phulaguri in Sonitpur, Assam. 55 numbers of participants

attended the programme. The faculty members interacted with the villagers on various women's issues.

- On 18th July, 2023, Chandrababha Saikiani Centre for Women Studies Tezpur University organized a field work at Jamuguri, Pirakata village, Sonitpur district for a research work on "Doudinis (priestess) of Assam". An interview session was arranged with the village members.
- On 2nd August, 2023, Chandrababha Saikiani Centre for Women Studies Tezpur University organized a field work at Botola village, Sonitpur District for a research work on "Doudinis (priestess) of Assam".
- On 8th March 2024, Chandrababha Saikiani Centre for Women Studies, Tezpur University visits Harchura Tea garden, Sonitpur district on the occasion of International Women's Day. 133 number of participants attended the programme. The Faculty members spoke on Human Trafficking and Cyber Crime. Students of the centre presented skits on Human Trafficking and Cyber Crime.
- A programme was organized in premises of the Gayatri Temple, Naapam by Assam Agricultural University, Tezpur Branch on 7th March 2024 to celebrate International Women's Day 2024. 50 numbers of participants attended the programme. The Faculty members of Chandrababha Saikiani Centre for Women Studies deliberated on women issues.

Central Facilities

Central Library

Centre for Inclusive Development

Computer Centre

Health Centre

Centre for Innovation Incubation and Entrepreneurship

Sophisticated Analytical Instrumentation Centre (SAIC)

The Centre for Endangered Languages

The Horticulture Centre

Publication Centre

Department of Vocational Studies and Skill Development

DST-funded Technology Enabling Centre (DST-TEC)

Centre for Yoga and Sports Science

CENTRAL LIBRARY

About the Central Library

The Central Library, Tezpur University, was established in 1994 along with the establishment of the University. The Library is housed at the center of the University campus in an aesthetically built three- storied building occupying an area of 4734 sq m. The library aims to be an ideal University library in the region as well as in the country. Central Library has a diverse collection of over one lakh books and journals. The Library is modernized with an RFID system, automated with the KOHA Open source software, an integrated multi-user library management system that supports all its in-house operations. The library maintains the research publications in Knowledge Repository (Institutional Repository) and Theses & Dissertations in an Electronic form in an ETD server. The collection of the library covers the latest information resources on all areas of Engineering, Science, Management, Social Science and Humanities. The library provides access to its e-resources and databases in a remote access facility through INFED Shibboleth. The Central Library is member of INFLIBNET Centres and DeLCon; through these Consortia library can access e-resources and databases. The library is also a member of DELNET and utilizes its services. Library users can access book database, thesis, journal database, e- journals and other e-resources from any computer within the University campus. In addition, the library has facilities for remote access to OPAC and other e-resources. The Central Library is an invaluable resource for students, researchers, and faculties of the University. The library delivers innovative information products, services and programmes of the highest quality that are integrated with teaching, learning and research activities. The library occupies a unique place in academic and research activities of the university. The mission of the library is to support and supplement learning, teaching and research programmes.

Opening Hours: The library is open from 9.00 am–1.00am midnight throughout the year.

Collections

Volume	Number
<i>Print Books (Text, Reference, Gifted, Law)</i>	1,21,438
<i>Print Journals (National + International)</i>	8
<i>Electronic Journals (Subscribed + Consortia)</i>	8,604+
<i>Online Databases</i>	5
<i>Back Volumes</i>	10,845
<i>E-Books (Subscribed + Open-Access)</i>	1,255
<i>Thesis</i>	1,052
<i>Dissertations</i>	2,140
<i>CD/DVDs</i>	3,053
<i>Govt. Publications</i>	1,458
<i>Braille Books</i>	241
<i>VHS Cassettes</i>	36
<i>Newspapers/Magazines</i>	7
<i>Manuscripts</i>	32

Services

The Central Library provides the following services

- Self-issue/return of books with RFID system
- Remote access of Library e-Resources
- Book Bank Facility for EWS
- Reference Services.
- OPAC/WebOPAC /CD Lib. Catalogue
- EBooks (intranet/Internet).
- Current Awareness Service (Monday Morning, InfoJ, InfoGranth)
- New Arrival of Books
- Training cum Demo on Electronic Resources
- Online Renewal and Reservation of Books
- Photocopy Services
- Children Library Corner
- Library & Information Services to Outsiders on Request
- Research Support Services
- Plagiarism Check (Urkund/Turnitin)
- Document Delivery Services (DELNET, JCCC)
- Special services to differently able person.

Events Organized

Title of Event	Level	Date/Period	Mode of Conduct
Online refresher course on Sociology	Local	6-19 Dec, 2024	Offline
National conference on Climate change, impact, adaption and resilience	Local	19-20th Dec, 2024	Offline
Self-paced FDP on enhancing Teaching and learning excellence	Local	21-27 Nov, 2024	Offline
3 days' workshop-cum-investor and MSME meet on robotics, artificial intelligence and entrepreneurship	Local	16-18 Dec, 2024	Offline
Development of online course/program	Local	3-7 th Dec, 2024	Offline

Officers and Staff Members

Designation	Name	<email>@tezu.ernet.in	Date of holding the current position
<i>Librarian</i>	Dr. Mukesh Saikia	librarian	19-03-2012
<i>Assistant Librarian</i>	Mr. Jitu Mani Das	jmdas	25-08-2015
<i>Information Scientist</i>	Mr. Anuj Kumar Singh	anujsingh	31-03-2022
	Mr. Dipak Sarma	dsarma	20-10-1995
	Mr. Anjan Gohain	anjang	11-04-2007
	Mr. Dipak Kr. Gogoi	dkgogoi	09-02-2011
	Mrs. Monmi Choudhury	monmi	31-07-2012
	Mr. Rajesh Kr. Sharma	rajesh	09-02-2011
	Mr. Ijaz Ahmed	ijazah	16-09-2016

	Mr. Sourav Kr Mahanta	souravk	03-08-2018
<i>Lower Divisional Clerk</i>	Mr. Pinchu Basumatary	pinchu7	11-04-2014
<i>Library Attendant</i>	Mr. Mohendra Kr Nath	mknath	24-12-1994
<i>Library Attendant</i>	Mr. Manjit Tamuli	mtamuli	02-07-2012
<i>MTS</i>	Md. Derajuddin Ahmed	deraj	01-03-1996
<i>MTS</i>	Md. Ahmed ALi	ahmed	01-03-1996
<i>MTS</i>	Mrs. Kanaka Das	kanaka	01-01-2008

CENTRE FOR INCLUSIVE DEVELOPMENT

About the Centre

One of the University's objectives as enshrined in the Tezpur University Act, 1993, is "to educate and train manpower in an equal learning space". In line with the spirit of this objective, the Centre for Inclusive Development was established in 2013 as a training and development centre. The Centre plays a catalytic role in uplifting the underprivileged students of the University through education, training, engagement and counseling. The Centre makes efforts to identify the areas requiring intervention and takes appropriate measures to address the issues. The Centre also offers a two-semester academic programme named *P.G Diploma in Child Rights and Governance* (started in 2016 in partnership with UNICEF) both in the conventional mode and Open and Distance Learning mode. Additionally, the Centre reaches out to the community outside the University's periphery and extends support to the needy people, particularly children and youth, through resource sharing, intellectual support and counseling. The Centre envisions engaging itself in various activities required for development of the underprivileged people, particularly in north-east India, in the future.

Academic Programmes and Student Intake

Academic Programme	Intake
<i>Post Graduate Diploma in Child Rights and Governance (Conventional Mode)</i>	04
<i>Post Graduate Diploma in Child Rights and Governance (ODL Mode)</i>	10

Thrust Research Areas

- Child Rights and Governance

Major Facilities/Equipment available

- Computer Laboratory with 13 Desktop Computers
- Seminar Hall (80-seater)
- Multi-media projection system

Faculty Members

Designation	Name	Highest Qualification (Institute)	Specialization	<email> @tezu.er net.in	Date of holding the current position
<i>Professor</i>	Rajeev Kumar Doley	Ph.D. (IITG)	Sociolinguistics	rkdoley	2014
<i>Assistant Professor</i>	Subbhrangshu Dhar	Ph.D. (VBU)	Social Work	Sdhar	2017

<i>Guest Faculty</i>	Krishnamoni Bordoloi	LLM (GU)	Human Rights	krishnabordoloi123	2020
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Officers and Staff Members

Designation	Name	<email>@tezu.ernet.in	Date of holding the current position
<i>Assistant Education Officer</i>	Bhanu Panging Gogoi	bhanubj@tezu.ernet.in	2013
<i>Multi-Tasking Staff</i>	Mohan Saikia		2016

COMPUTER CENTRE

About the Centre

The University has a well-equipped Computer Centre (CC) with the latest configured Desktop Personal Computers (PCs) spread over two units of laboratories supported by high-end servers and a host of the latest software packages. The resources procured through the CC are used mostly for computational & laboratory purposes and sometimes for skill tests, online interviews, workshops, etc. The Computer Centre (CC) serves the whole university with ICT services. It is the main ICT resource centre for the whole University. Computer Centre maintains and offers two well-equipped Computer Laboratories with modern computational capabilities. Computer Centre also serves as the support system for the University Community in the terms of Computing Hardware, Software and Network related activities. There is a constant endeavour to envisage better services under its umbrella. The campus-wide Local Area Network (LAN) is equipped with a 10Gigabit backbone and high-speed Switching Network Devices. Most of the components in its Local Area Network (LAN) are Internet Protocol (IP) based and therefore have its manageability mostly centralized.

Along with all departments, offices, hostels, facilities now residential apartments have been extended with WiFi facilities. Almost all Internet services like Email, WWW, Proxy, Software applications are fully hosted in-house with its own set of servers and storages and run on a 24x7 basis in a dedicated air- conditioned environment. Several applications developed in-house by the Computer Centre Staff are used extensively in automation of Administration, Academic Departments, and other user departments. Computer Centre has recently acquired HPC cloud-based infrastructure and modernized it with latest applications. The Computer Centre has a multifunctional 70-seater state-of-the-art Video Conferencing cum classroom facility for Online Meetings, Interviews, conferences, and Virtual Classes etc. Furthermore, a recording studio cum virtual classroom is also operational to aid in recording and preparation of audio/video lectures and conducting online classes of the University.

Academic Programmes and Student Intake

Programme	Student Intake
DOEACC 'O' Level Diploma	30
DOEACC 'A' Level Diploma	20

Thrust Areas of the Centre

The primary goal of the Computer Centre is to provide quality ICT services including computational and internet facilities to the University community. In addition to maintenance of computational infrastructure, the following services are supported by the Computer Centre:

- Email & Internet Services
- Credit/audit practical courses of different Departments
- Organizing practical sessions for various workshops and refresher courses of various Academic Departments.

- Organizing training programmes for the University Employees
- Assist Administration in selection and procurement of computing resources
- Providing maintenance services for computers/peripherals to the Faculty/Staff /Departments
- Maintaining and monitoring the Campus LAN
- Maintaining and monitoring various Internet Links
- System Administration, Network Administration, and monitoring of various servers - Email, Web Application, Database, Proxy, Firewall, etc.
- Maintaining University Website and intranet portal
- Develop, procure, and maintain software for administration and other sections of the University
- Software maintenance Services
- Providing presentation assistance in the auditorium and conference halls
- EPABX system administration and maintenance
- IP CCTV Surveillance Management

Major Facilities/Equipment Available

Particulars	Hardware (Make/Model)	Qty
Video Conferencing System	Polycom 8000 Series	1
VoIP Telephony System in collaboration with BSNL and Clixxo Broadbands Pvt. Ltd.	Clixxo series Server and Media Gateway	1 set
Core Switch with 64 10G Ports	Cisco C6807-XL	1
Distribution Switch with 32 10G Ports	Cisco WS-C3850-24XS	16
	Cisco WS-C2960X-24TD-L	80
	Extreme X350 48T	56
	Extreme X350 24T	19
	Allied Telesis AT-x510L-28GT	11
	Allied Telesis AT-x510L-52GT	3
	HP 2520G	9
Firewall	Huawei Eudemon 200E-X7	1
Router (NKN)	Cisco ASR 1000	1

Servers

Server Particulars	Hardware (Make/Model)	Operating System and Application Platform
Secondary Storage Server	HP StoreEasy 1650	Windows Storage Server 2012
Email cum DNS Server	Dell PowerEdge R730xd	CentOS 6.4/ Sendmail, Bind
Proxy/NAT/Firewall Server	Dell PowerEdge R730xd	CentOS 6.4/ Squid Proxy 4.0
Email Storage Server	Dell NX 3230	Windows Storage Server 2012 R2
Proxy Storage Server	Dell NX 3230	Windows Storage Server 2012 R2
Application Server	Dell PowerEdge 540	Windows 2019 Server/ xampp
Database Server	Dell PowerEdge R740xd	Windows 2019 Server/ MySql
Oracle 10g Database	IBM/X3560	Windows 2008 R2

		Server/Oracle10g DB
Video Streaming Serverwith Storage	IBM/X3650 +IBM/DS3524	Windows 2008 R2 Server/Adobe Media Server 5
Web Server	IBM/X3560	RHEL 6/Apache
Local Cloud Cluster	LENOVO /VX SERIES	VMware EXSI

Computer Terminals & Peripherals Available

Unit No	Unit Name/Location	Terminals & Peripherals
Unit-0	Central Computer Centre (Academic Building -2)	Terminals = 60 (Core i5 /Windows 7 Pro./Windows 10 Pro. Desktops) Scanner = 2, Projector =1
Unit-1	Computer Centre-Cluster-1 (SoE Complex)	Terminals = 100 (Core i5 / Windows 10 Pro. Desktops) Scanner = 1, Projector = 1

Software Subscriptions

Packages	Renewal Period
Microsoft Campus Agreement	Yearly
Kaspersky Total Space Security	Yearly

Officers and Staff Members

Designation	Name	<email> @tezu.ernet.in	Date of holding thecurrent position
Director	Mr. Ramakrishna Mathe	<u>director_cc</u>	22-12-2020
Computer Engineer	Dhiraj Kumar Sarma	dhiraj	23-12-1999
	Dipak Chandra Choudhury	dcc	27-08-2007
	Jamil Ahmed	Jamil	31-07-2018
	Abani Kumar Das	Abani	01-06-1998
	Niranjan Kumar Deka	niranjan	26-07-2018
	Manjul Baruah	manjul	03-11-2004
	Prandeep Borah	prandeep	17-08-2012
	Raghvendra Choudhary	raghav	25-11-2016
	Milan Kumar Deka	milan16	16-08-2019

Other Significant Activities of the Centre

- Setting up and using G-Suite for education to cater the need of anLMS(mainly Google classroom, Google meet) for online teaching-learning activities from academic session Autumn 2020 onwards (Covid-19 time) and still being used along with physical classroom sessions. More than 5000 user accounts are active at present.
- To cope with pandemic and growing need to work from home, Computer Centre has started rolling out WiFi services to quarters of Teaching Staffs and Other Officials.
- Computer Centre has also stepped into world of cloud computing with installation of infrastructure

- A state-of-the-art recording studio cum virtual classroom is also built to aid quality Audio/Video teaching/learning experience both in online and offline mode.
- Other important services rendered by the Computer Centre are the Campus Telephony System and the Video Surveillance System which runs over the Campus's LAN. The Internet facility is being facilitated through the high performance 1Gbps link of National Knowledge Network (NKN). The *Campus Connect WiFi* Scheme of the MHRD has been operational since 2017 mostly covers academic complexes, administration, student hostels and student activity areas with a user base of 4300. The WiFi services under this scheme is fully maintained and managed by dedicated company engineers.

Help desk support

The Computer Centre maintains a Helpdesk Service for any kind of technical support within the campus during office hours. Users can raise their Service Request through SAMARTH Portal. Centre is strictly liable to give service to those PCs and Peripherals which are distinctly official and issued by University Only. However, centre will extends its technical support only for Wired/Wi-Fi LAN connectivity issues to personal PCs/Laptops within the campus. (Goto University Wireless Zone)

Key Persons assigned for Specific Services	
Overall IT Administration	Dhiraj Sarma, Computer Engineer, Phone: +91-3712-27-3202
Webmail, Proxy, GSuite	Dipak Ch. Choudhury, Jr. Programmer, Phone +91-3712-27-3204
HCI Server, University Website	Jamil Ahmed, Jr. Programmer, Phone +91-95777 83826
UPS Service	Abani Kr. Das, Sr. Technical Assistant, Phone +91-3712-27-3209
EPABX Section	Niranjan Kr. Deka, Sr. Technical Assistant, Phone +91-3712-27-3205
CCTV Surveillance	Manjul Barua, Technical Assistant, Phone +91-3712-27-3200
Campus Wifi Network	Prandeep Borah, Technical Assistant, Phone +91-3712-27-3200
DHCP & Antivirus Server	Raghvendra Choudhary, Technical Assistant, Phone +91-3712-27-3200
Network Survey	Milan Jyoti Deka, Technical Assistant, Phone +91-3712-27-3200

HEALTH CENTRE

About the Centre

The Health Centre of Tezpur University has been functioning since 1995. It provides health care services mainly to the students, faculty members, staff, their families, and involved with the University. At present, we have over 6000 beneficiaries.

Major Facilities/Equipment available

The Health Centre offers OPD services, and ten beds are available to provide initial care to indoor patients, including emergency cases. One Medical Officer is always available for 24hrs emergency duty. The cases requiring hospitalization are referred to the referral Hospitals at Tezpur. Ambulance service is available round the clock and is free of cost for students. There are three ambulances available at present, and one is specifically for PWD candidates to attend to their classes with a payment of a nominal charge. A stock of common medicines, including lifesaving drugs, is maintained, and is supplied free of cost. Routine laboratory investigations are also done. Additionally following equipment are available:

- An Autoanalyser (fully automatic)
- Hormone Analyser (Mini-Vidas)
- ECG
- X-ray
- Appliances for a person with disability.

OPD timings

Session	Morning	Evening
<i>April to September</i>	8.30AM to 12.30PM	4 PM to 6 PM
<i>October to March</i>	8.30AM to 12.30PM	3 PM to 6 PM
<i>Saturdays and Sundays</i>	10 AM to 12 Noon	

Visit by Specialists

The University has engaged Specialists of different disciplines (Paediatrics, Obstetrics and Gynaecology) who regularly visit the Health Centre on different days of the week for the benefit of the University community. A Clinical Psychologist is also regularly available on working days at the DSW office to provide counselling on stress-related problems. In addition, a Physiotherapist visits the Health Centre twice a week for offering physiotherapy to the differently abled students and other patients.

Officers and Staff Members

Name	Designation	Highest Qualification	Status	Date of holding the current position
J.S.Goswami	CMO	MBBS, DLO	Permanent	07-01-2008
R.Boro	MO	MBBS	Permanent	20-01-2021
B. Barman	MO	MBBS	Contract	27-08-2020
M. Rahman	Sr. Consultant	MD (Paediatrics)	Visiting	29-01-2008
Purnima Das	Consultant	MBBS, DGO	Visiting	18-11-2019
Utpal Bora	Physiotherapist	MPT	Visiting	16-09-2015
Asish P Bora	Clinical Psychologist	M.Phil. in Clinical Psychology	Contract	01-02-2022
Eliza H. Barla	Nurse	Diploma GNM	Permanent	10-01-2002
Amrita Purty	Nurse	Diploma GNM	Permanent	07-08-2012
Pranab Baruah,	Pharmacist	D. Pharm.	Permanent	22-06-1998
Anuj Baruah,	Lab. Technician	BA, CMLT	Permanent	05-06-1998
Niramoni Das	Lab. Technician	Certificate in ANM	Permanent	31-12-2010
Hiten Debnath	Radiographer	DMRT	Contract	14-08-2013
Manoj K Saikia	MTS	10 th	Permanent	01-03-1996
Jiten Rajbongshi	MTS	9 th	Permanent	01-04-1997

Centre for Innovation Incubation and Entrepreneurship

The Centre

The Centre for Innovation, Incubation and Entrepreneurship was established in September 2013 which was merged with the Entrepreneurship Development Cell (EDC) initially funded by AICTE. The objectives of the cell are to:

- (a) Create awareness among the students of the University and the educated unemployed youths of North east India regarding entrepreneurship as a career option.
- (b) Conduct training programmes in the field of entrepreneurial skill development
- (c) Develop entrepreneurship related course curriculum to incorporate in management and engineering programmes
- (d) Provide guidance and facilities to first time entrepreneurs during gestation.
- (e) Explore the possibility of commercialization of some of the potential technologies developed by the faculty members and students of TU
- (f) Form a Technology Development group in Tezpur University comprising enthusiastic former students of the university and thereby motivating towards self-employment

Major facilities and equipment available

Facility	Number
TUNOVATION (A display room for developed research items)	01

1. Activities and Participation:

December 2023 –Tezpur University has participated in the NIRF2024 under the innovation category for which data was prepared by the CIIE.

2. Incubation:

Start-ups Incubated/Supported by Tezpur University's Incubation Centre/ CIIE with records of incorporation and recognition by DPIIT/startup India

Name of Venture	Year of recognition by DPIIT/startup India	DPIIT/Start up India Registration No.
Udayaditya Technologies Private Limited	2023-24	U62091AS2024PTC025840
K-Means Technologies Private Limited	2023-24	U62091AS2023PTC025722

Vrixaalabs Private Limited	2023-24	U85490AS2024PTC025782
Labdig Innovations and Systems private Limited	2022-23	DIPP112691
TRCATS LLP - Transitioning Research Consultancy and Training Services LLP	2022-23	ABZ-8896

3. Project on Design and Entrepreneurship:

- I. CIIE coordinated to receive a grant of Rs 43.2 lakh for two years i.e., in the academic years 2024-25 and 2025-26, for mentoring support to faculty and selected students to inculcate the orientation for design and entrepreneurship. Tezpur University is one of the selected HEIs to implement the “Capacity Building program on Design and Entrepreneurship”.
- II. CIIE coordinated to sign a Tripartite Agreement by Tezpur University with MMTTC from IIITDM Kancheepuram, the designated nodal centre for the implementation of the program of Capacity Building in Design and Entrepreneurship at Tezpur University, the third part being a group of three experts, for two years.

The Personnel of the Centre:

Dr. M. K. Hazarika, Head
Professor, Department of Food Engineering and Technology
E-mail: headciie@tezu.ernet.in

Office Staff

Mr. Zakir Hussain, (on time – sharing basis)
Office Assistant
E-mail: zakir07@tezu.ernet.in

Other staff

Mr. Satya P Saikia, (on time – sharing basis)
STA, as caretaker for Tunovation

SOPHISTICATED ANALYTICAL INSTRUMENTATION CENTRE (SAIC)

About the Centre

Instrumental methods of analysis are an indispensable aspect of research and development. Tezpur University has several departments and centres working in diverse areas that require sophisticated analytical equipment. Sophisticated Analytical Instrumentation Centre (SAIC), Tezpur University, has been set up to cater to these needs. The Centre extends these facilities not only to users in the university, but also to other educational institutions and industries in the north-east region and beyond, as many do not have the resources to procure and maintain such sophisticated instruments. The Centre also provides demonstration of instruments and their utility in different fields of research to the UG/PG students of colleges. The Centre was established in 2010 with two equipment, High-performance liquid chromatography (HPLC) and Gel permeation chromatography (GPC). Twenty-five types of equipment including Transmission electron Microscope (TEM), Scanning Electron microscope (SEM), Single crystal XRD, Powder XRD, BET (Surface and Pore size analyser), Raman Spectrometer, Fourier Transform Infrared Spectrometer (FTIR), Atomic absorption spectrometer (AAS), Nuclear magnetic resonance spectroscopy (NMR), and Bomb calorimeter are currently housed and maintained by SAIC.

Major Facilities and Equipment available

Equipment	Model	Date of Installation
Transmission Electron Microscope	Make: FEI Company, USA Model: FEI 200KV TEM model Tecnai G2 F20 S-TWIN	22-10-2013
BET Surface Analyzer	Make: Quantachrome, USA Model: ASiQC0000-4	15-06-2011
Powder X-ray Diffractometer	Make: Bruker AXS, Germany Model: D8 Focus	02-11-2012
Single Crystal X-Ray Diffractometer	Make: Bruker, Germany Model: AXS SMART APEX-II	04-07-2012
High Performance Liquid Chromatography	Make: Waters Corporation, USA Model No.: a. UV/Visible Detector-2489 b. Refractive Index Detector-2414 c. HPLC Pump-515	08-06-2011
Gel Permeable Chromatography	Make: - Waters Corporation, USA Model No.: a. UV/Visible Detector-2489 b. Refractive Index Detector-2414 c. HPLC Pump-515	09-06-2011
Atomic Absorption Spectrometer	Make: Thermo Scientific, UK Model: (a) AAS-	18-09-2012

	ICE 3500	
Raman Spectrometer	Make: Renishaw, United Kingdom Model: inVia (514 Lase)	12-10-2012
Fourier Transform Infrared Spectrometer	Make: Perkin Elmer Model No.: Spectrum 100	29-01-1998
CHN Analyzer	Make: Perkin Elmer, USA Model No.: 2400 Series 2	24-09-2006
Thermal Analyzer (TGA-DSC)	Make: SHIMADZU(Asia Pacific) Model No.:TGA-50 & DSC-60	26-05-2006
Nuclear Magnetic Resonance	Make: JEOL, Japan Model: ECS-400	08-04-2010
Scanning Electron Microscope	Make : JEOL, Japan Model: JSM 6390LV	18-11-2008
TR-PL Spectroscopy	Make: Horiba Instruments Incorporated Model: Flurolog-3 TCSPC	09.02.2022
UV-Visible Spectrometer	Make: Shimadzu Corporation Japan Model: UV 2450,206-55672-34	13-06-2008
X-Ray Diffractometer	Make: Rigaku Corporation,Japan Model: MINIFIEX	18-10-2006
Liquid Chromatography Mass Spectrometry (LCMS)	Make: Agilent Technology Model: Agilent 6100	30.06.2022
UV-Visible Spectrometer	Make: SHIMADZU Model: UV-2600i	25.08.2021
Field Emission Scanning Microscope (FESEM)	Make: JEOL Model: JSM7200F	19.01.2021
Inductively Coupled Plasma Optical Emission Spectrophotometer (ICP-OES)	Make: PERKIN ELMER, USA Model: AVIO 220 MAX	

Officers and Staff Members

Designation	Name	<email> @tezu.ernet.in	Date of holding the current position
<i>Head</i>	Prof. Ashim J. Thakur	hod_saic	2022
<i>Technical Officer</i>	Dr. Ratan Boruah	rboruah	2021
	Prakash Kurmi	pkurmi	2012
	Nava Kr. Gogoi	navag	2010
	Tridip Ranjan Nath	trnath	2016
	Mr. Tanu Ghosh		-
<i>Multitasking Staff</i>	Mohendra Das	mohen13	2018

The Centre for Endangered Languages

The Centre for Endangered Languages, Tezpur University was established in 2014 with the aim of conducting substantial research on the lesser known and endangered languages of Northeast India and to revitalize them with the direct and indirect institutional intervention. It is because each and every language embodies the unique cultural and historical wisdom of a people. The loss of any language is thus an irrevocable loss for all humanity. Yet, according to a recent UNESCO report - Atlas of the World's Languages in Danger (2009) - out of the approximately 7,000 existing languages in the world more than 2,500 are under threat of imminent extinction. They may be extinct even before the next century begins.

As for Indian languages, 196 are currently endangered according to the above mentioned report. On the other hand, according to the 2001 census, most of these languages (including two scheduled languages, viz., Bodo and Manipuri) are located in Northeast India. Speakers of many of the languages in North East India, which belong to different language families, are rather small in number ranging from 1000 to 10,000. With the new generations sharply shifting to dominant languages in order to ensure jobs for themselves these languages are now increasingly under threat of being extinct.

In this pretext, as a response to a proposal from the faculties of Linguistics, the University Grants Commission has approved to set up a Centre for Endangered Languages of Northeast at this University which will work as an effective agency for preserving and promoting the endangered languages of the region.

Vision

To help the endangered language communities to revive and maintain their languages and also instill the sense of loyalty towards their native language.

Mission

- To make the Centre one of the best centres working on endangered languages in the country and worldwide.
- To create a database of all such languages comprising grammatical descriptions, dictionaries and documentation.

Objects of the Centre

The prime objects of the Centre are

- To undertake inter departmental and inter disciplinary research related to endangered languages.
- To undertake fieldwork, research, analysis, archiving and documentation of smaller indigenous/endangered languages using state-of the art speech and language technologies, in formats that are universally acceptable viz, digitized textual, audio and video formats
- To produce and publish monographs, grammars, grammatical sketches, dictionaries and lexicon, ethno-linguistic and theoretical descriptions, collection of oral and folk literature and scholarly books on endangered languages.

- To produce language and dialect atlases with special reference to minority and endangered languages.
- To organize workshops and seminars aimed towards promoting advanced research related to endangered languages.
- To train teachers and students from other departments/centres in Field Linguistics, Lexicography and in techniques for data management and documentation. Field linguistics would constitute an indispensable part of the Centre.
- The Centre should serve the indigenous and endangered language communities by making accessible the products of the research of the Centre, i.e., digital and analogue archives of linguistic data, language teaching material, and language artifacts.
- To promote and foster various domains of endangered languages so as to ensure minority/endangered language communities in maintaining and preserving language vitality, including the development of orthographical resources like scripts, book of letters, and primers.
- To digitize data collected in the course of the research in the Centre and make it available to public by internet.
- In the initial phases this Centre shall and may draw resources (such as man power, labs, books, students, etc) from other centres of languages, linguistics, folklore, anthropology, and literature in the university but eventually should conceive of forming an independent centre purely devoted to the issues of endangered and indigenous languages.

About the Centre

At present the UGC has recognized Tezpur University as a nodal Centre for the cluster which comprises Tezpur University, Rajiv Gandhi University and Sikkim University. Tezpur University is entrusted with the responsibility to work on the languages of Assam, Manipur and Nagaland in this context.

Strategic Vision

The Centre aspires to be one of the hubs for research on endangered languages in India. The Centre will describe, document and digitize the endangered languages of NE region.

A. Outstanding Research

Targets:

- To publish linguistic multi-lingual dictionaries of every undertaken language.
- To publish descriptive grammar of every undertaken language.
- To create online and digital corpus for every undertaken language.

Strategy:

- Field Assistants and researchers will conduct field work to collect primary data of each language undertaken by the Centre.
- The Centre will conduct workshop for data elicitation and analysis.

B. Excellent Teaching-Learning

Targets:

- To produce a few PhD and Post-Doctoral research in the next 5 years.
- Through its Masters' program MA in Linguistics and Endangered Languages, a group of trained and motivated scholars will be produced.

Strategy:

- The Centre and the Department are already running the MA in Linguistics and Endangered Languages since 2015 onwards.
- The Field Assistants and Research Assistants are also encouraged to enroll as PhD scholars in the Department/Centre.

C. Social Responsibility

Targets:

- To develop reading materials like story books and orthographic resources like script, books of letters, primers etc.
- To work towards the revitalization of minority/endangered languages through school education.

Strategy:

- The human resources from the Centre will frequently visit the members of the endangered language communities in their places and hold discussion, meetings etc. on the issue of the importance of passing their languages to the next generation.

D. Enabling Strategies for Vision 2030

- The Centre will work to provide the e-access of language data to all through a consortium of these languages at Tezpur University.
- To provide support to the native speakers of these languages in the language-awareness programs in their communities.
- To help bringing these languages to the sphere of modern technologies.

Publications of the Centre

First Version of Dictionary Android Apps

- Biate-English-Hindi_Trilingual_Dictionary-1.0.apk
- Khelma-English-Hindi_Trilingual_Dictionary-1.0.apk
- Purum-English-Hindi_Trilingual_Dictionary-1.0.apk
- Yimkhiung-English-Hindi_Trilingual_Dictionary-1.0.apk

Draft of the Ethnolinguistics

An Ethnolinguistics Study of Biate, Hrangkhoh, Khelma, Onaeme, Purum, Liangmai and Yimkhiung

Draft of the Dictionaries

- A Biate-English-Hindi Trilingual Dictionary
- A Hrangkhoh-English-Hindi Trilingual Dictionary
- A Khelma-English-Hindi Trilingual Dictionary
- A Liangmai-English-Hindi Trilingual Dictionary
- A Onaeme-English-Hindi Trilingual Dictionary
- A Purum-English-Hindi Trilingual Dictionary
- A Yimkhiong-English-Hindi Trilingual Dictionary

Publications of the Centre

- Biate Tong Riseina Bu (A Learners' Book Of the Biate Language)
- Hrangkhoh Nam Chonga Irchuna Lekhabu (A Learner's Book on the Hrangkhoh Language)
- Khelma Chong Anchuna Lekhabu (A Learner's book of the Khelma Language)
- Liangkhun Ketibu Khuang (A Learner's book of the Liangmai Language)
- Onaeme Leih Dangdo Laireiboung (A Learner's book of the Onaeme Language)
- Purum Chong Kinchuna Zedetrubu (A Learner's book of the Purum Language)
- Yimchunger Yutha Chingn Anikhitp KhehM (A Learner's Book Of The Yimchunger Language)

Faculty of the Centre

Designation	Name	<email> @tezu.ernet.in
Assistant Professor	Dr. Bobita Sarangthem	bobsara
Technical Assistant	Mr. Trilok Narzari	trilok
UDC	Mrs. Dipali Sona Nayak	dipasn

THE HORTICULTURE CENTRE

The Horticulture Section of Tezpur University is entrusted to carry out plantation, landscaping and beautification activities inside the University campus. The Assistant Horticulturist attached to Horticulture Section is looking after the day-to-day landscaping and maintenance activities under the guidance of a Campus Horticultural Committee with a faculty Coordinator. The annual horticultural activities during the concerned period were the followings-

1. Plantation Program

More than 100 nos. of plant saplings of different species (like ornamental plants/shrubs, fruit trees and medicinal plants etc.) were planted in different parts of the University campus, which include premises of Horticulture Section, Kendriya Vidyalaya, VC's residence, Auditorium, Jiri Women Hostel etc. through routine and special plantation program organized by the Horticulture Section, Tezpur University on various events/occasions with active participation from university communities.



Western side of Guest House premises on 5.6.2023 on the occasion of World Environment Day



Plantation in front of Jiri Women's Hostel on 16.6.2023



Plantation at the Eastern side of Kendriya Vidyalaya on 16.5.2023 by outgoing batch of student

2. Maintenance of Plantations

Apart from the maintenance of gardens, all previously planted trees (like road side and other plantations) in different locations of the University campus were regularly nurtured by cleaning, fertilization, and watering etc.

3. Maintenance of the Gardens and Landscape

In addition to new plantation drives and landscaping / beautification activities, all essential maintenance work (like lawn, hedge, existing plants /shrubs, growing of seasonal flowers) for previously developed flower and other gardens as well as other locations of the University campus are done regularly under the supervision of Horticulture Section.



Front side of Administrative Building



Vice-Chancellor's Residence

4. Maintenance of House Plant Pots for Indoor Decoration

Considering the different benefits of house plants, more than 1500 nos. of House plant pots are placed in the interior space of different Administrative offices and Academic building, Guest House, Library, Auditorium, VC's residence etc. and other amenity centers for beautification, greenery and purifying air. Essential maintenance works of these house plants are carried out regularly.



Around the national flag of front side of Administrative Building

5. Maintenance of Vermicompost Unit

A Vermicompost unit has also been running successfully to fulfill the need of organic manure for plantation/gardening work of the University. Vermicompost is produced entirely from Leaf Litters of the University campus. More than 60 quintals of vermicompost was produced during the concerned year. Essential maintenance works of the Vermicompost Unit were carried out throughout the year.



6. Maintenance of the Departmental Nursery

The Horticulture section has a nursery, which is the source of seedlings of ornamental/avenue trees & shrubs, fruit trees, shrubs, valuable timber trees, indoor plants of different types and also some seasonal flowers for the use of the University. It is located within the premises of the Botanical Garden. Essential maintenance works of the nursery were carried out throughout the year.



7. Extension Activities

(a) “Meri Maati Mera Desh” plantation program :

On 9th and 10th August, 2023, a massive plantation program was carried out in the Amolapaam village, Sonitpur, Assam as part of “**Meri Maati Mera Desh**” program . The plantation program was organized by Horticulture Section, Tezpur University in collaboration with NSS, TU and UBATU which was inaugurated by Dr. Biren Das, Registrar (acting), Tezpur University. In this program, Dr. Satya Sundar Bhattacharya, Coordinator Horticulture Section, Dr Amiya Kr Das, Program Coordinator, NSS, TU, Mr Girindra Hazarika, Assistant Horticulturist, TU along with a group of NSS volunteers from Tezpur University were present.

A total of 79 nos. of seedling of different plant species like Mango, Rose apple, Guava, Tecoma, Mahaneem, Crape myrtle, Kanchan, Bakul etc. were planted during the program.



(b) “Amrit Brikshya Andolon” plantation program :

On 17th September, 2024, a massive plantation program was carried out in the Amolapam and Napaam village, Sonitpur, Assam as a part of “Amrit Brikshya Andolon” program, an initiative of the Govt. of Assam for executing massive plantation drive with a target of planting one crore seedling across the state of Assam. The plantation program was organized by Horticulture Section, Tezpur University in collaboration with Forest department, Govt. of Assam, NSS, TU and NCC, TU which was inaugurated by Dr. Biren Das, Registrar (acting), Tezpur University. In this program, Dr. Satya Sundar Bhattacharya, Coordinator, Horticulture Section, Dr. Amiya Kr Das, Program Coordinator, NSS, TU, Dr. Apurba Saha, Program Officer, NSS, TU, Dr. Hitesh Sarma, Program Coordinator, NCC, TU and Mr Girindra Hazarika, Assistant Horticulturist along with a group of NSS and NCC volunteers from Tezpur University were present. A total of 500 nos. of Mahogany seedling were planted during the program.



8. Other Activities

In addition to the above, cleaning (by jungle cutting) of different parts of University campus like surroundings of the Administrative Building, different Offices and Academic Buildings, the Library, the KBR Auditorium, the Guest House, the Chandraprabha Saikianee Bhaban, the Community hall, the Shopping Complex/Day Care Centre, the Children park, the Takshashilla Vidyapeeth, the Kendriya Vidyalaya, the Car parking area and both sides of different roads including boundary footpath etc. were done from time to time.

Personnel of the Section

Girindra Hazarika
Assistant Horticulturist
Science
Horticulture Section, TU
Section, TU

Dr. Satya Sundar Bhattacharya
Associate Professor
Dept. of Environmental
&Coordinator, Horticulture

PUBLICATION CENTRE

About the Centre

The publication section of the University has been publishing text and reference books of good academic quality related to the courses of the Departments and Centres of the University along with other relevant books and conference proceedings. As per the new publication policy, approved by the competent authority of the University on October 10, 2017, the name of the publication section of the Tezpur University is 'Tezpur University Publication Centre'. The prime aim of the centre is to provide an impetus to the members of the University for creative, critical and original writings.

Officers and Staff Members

Designation	Name
Senior most Dean of School	Ex-officio Chairperson
Head, Dept. of English	Member
Head, Dept. of Assamese	Member
Head, Dept. of Hindi	Member
Prof. Nayandeep Deka Baruah, Dept. of Mathematical Sciences	Member
Prof. Apurba Kr. Das, Dept. of Environmental Sciences	Member
Prof. Tapan Kr. Gogoi, Dept. of Mechanical Engg.	Member
Dr. Bhim Pd. Sarmah, Dept. of Mathematical Sciences	Member
Librarian, Central Library	Member
Deputy librarian	Ex-officio Convenor

DEPARTMENT OF VOCATIONAL STUDIES AND SKILL DEVELOPMENT

The Department of Vocational Studies and Skill Development is established at Tezpur University, with the approval of the UGC in the year 2022. The objectives of the Department is to

1. To create awareness and to support incorporation of skill development in academic programs of the University, compliant to UGC mandates.
2. Support offering exit courses on vocations, recognized by industry/NCVET or equivalent bodies to enhance employability of students
3. Offer standalone skill-based academic programs as major and minor.
4. Conduct training programmes in the field of skill development.

People

Designation	Name	<email> @tezu.ernet.in
Head in Charge	Dr. M. K. Hazarika	hod_vssd

Activities

On 14th June, 2024, organized a lecture cum interaction session with Dr. Krishna Raghav Chaturvedi, outreach manager from the American Chemical Society (ACS), to highlight the initiatives of ACS on skill development in the North-East India, with a focus around the existing/ upcoming industries in the region, identification of skill gaps, and roles the ACS can play in training the youths from the region.

The Department of VSSD is jointly coordinating of the implementation of the “Capacity Building program on Design and Entrepreneurship” program for the academic years 2024-25 and 2025-26 at Tezpur University.

Coordinating offering of 02 common subjects as per the mandate of the “Capacity Building program on Design and Entrepreneurship” to the students of B Tech program under the School of Engineering.

Awareness talks on skill development in line with the mandate of NEP2020, through programs conducted by MMTC, Tezpur University (dated: November 8th, 2023, February 23rd , 2024, March 14th, 2024, May 10th , 2024, June 13th, 2024).

The Department co-organized one 03 day skill training program on "Skill Development and Employment Opportunities, including Self-employment for the benefits of Youth and Students of North-East region, in Food Processing" during the period from 28-04-2022 to 30-04-2022, along with the Department of Food Engineering and Technology, and the Centre for Innovation Incubation and Entrepreneurship as the lead organizer. The Program was supported by the Rajiv Gandhi National Institute of Youth Development, Sriperumbudur, Tamil Nadu.

Participants were college students, out of education youth, and self – employed youths. Gender breakup was Male: 19, Female: 41

The Department co-organized a 06 months (September 2022 to February, 2023) Entrepreneurship Development Program for 03 Candidates sponsored by the Arunachal Pradesh State Council For Science & Technology, (Department Of Science & Technology), Government Of Arunachal Pradesh Name of the Training: Training program on food processing, its prospects and conservation of traditional food (on NCVET recognized qualification Pack - QP code: FIC/Q8501)

The Department co-organized a daylong Seminar cum Brainstorming Session on the topic "Skill Development and Entrepreneurship in Higher Education and SDG-8" on 24.03.2023 (9:30 AM to 5:30 PM)

DST-FUNDED TECHNOLOGY ENABLING CENTRE (DST-TEC)

About the Centre

The DST-funded technology enabling centre (DST-TEC) is established at Tezpur University in the Year 2019. The objective of DST-TEC is to create an Ecosystem for Technology Development in the Universities and academic Institutions in Assam and nearby NE states, and to provide a platform to network researchers with other institutes, National laboratories and industry. The Centre will thrive to provide an enabling eco system, process and support system.

Objectives

- Mining of Technologies available/developed at various Labs in the University and Partnering Institutes.
- Assessment of technologies requirement of MSMEs in Assam and around.
- Evaluating maturity of the identified technologies (products/processes or both) for further development.
- To carry out the Market Study/Assessment of the Technologies for their Market Potential.
- To recommend the Pilot stage development & co-development of the Technologies with established Institutions/Industries to make the Technology as Market ready product to DST.
- TEC will serve the industry by preparing reports and assisting in Research and Development in areas of dense Industry Clusters.
- Networking with various Technology Development Institutions & Labs for refining of the technologies
- Periodic workshops/seminars in collaboration with Industries.
- To bring out information updated on the technologies available in different areas.
- To bring out TEC Newsletters and Bulletin on Quaterly basis.

Events

27/6/23 : MSME Day celebrated in collaboration with Ministry of Micro, Small and Medium Enterprises (MSME) development and facilitation office, Tezpur

Activities

JN Agro Industries, a startup from the district of Golaghat, Assam, deals with production and marketing of an Indian traditional product, “Kheer”. JN Agro Industries approached TEC-TU asking to support them in testing and quality analysis of their product as well as in enhancement of the shelf life. TEC-TU offered to perform the testing and quality analysis in collaboration with Food Quality Control Laboratory (FQCL), TU and connected them with the experts of Department of Food Engineering and Technology (FET), TU to provide them with solutions for shelf life improvement. A Memorandum of Agreement (MoA) was signed on 28th September 2022 between JN Agro Industries and TU to establish and further the relationship

between TEC-TU and JN Agro Industries.

Officers and Staff Members

Designation	Name	<email>@tezu.ernet.in
<i>Coordinator</i>	Professor Nayan M. Kakoty	nkakoty
<i>Project Assistant</i>	Mr. Sontosh Phukan	sphukan
<i>Mentor</i>	Professor K. Sankaran	ksankaran
Ex-officio Chairperson	Professor Dhanapati Deka	deanrnd

CENTRE FOR YOGA AND SPORTS SCIENCE

About the Centre

Yoga has been a movement in Tezpur University. Though, the practice of Yoga had been a compulsory part of some departments of the university, but the formal introduction of Yoga as an 'add on course' for students started from August 2010. It started from the premises of the Sophisticated Instrumentation Centre. For a temporary period it operated from a room in the shopping mall and finally it was shifted to the present location.

Courses offered by the Centre

- Yoga for Positive Health open to all students
- Yoga for Holistic Development (from autumn 2022)
- Yoga for Holistic Development (from autumn 2022)
- Yoga and Spirituality
- Sports and Fitness

Officers and Staff Members

Designation	Name
Head	Prof. Papori Baruah
Coach	Mr Partha Pratim Das
Guest faculty	Mr Nagendra Kumar Jain
Office Assistant	Mr. Mahmudul Hassan sarkar
MTS	Mr. Anjan Baruah

Daily schedule of Yoga Centre

Practice session for all

6.30 am to 7.30 am

Yoga course

6.00 pm to 7.00 pm6.00 pm to 7.00 pm

Consultation through appointment (yoga@tezu.ernet.in)

Events

International Day of Yoga observed at Tezpur University on June 21, 2024

51 Day Yoga Mahotsav celebrated at Tezpur University from May 02, 2024



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