

CURRICULUM VITAE

Dr. Dhiren Kumar Basnet

Professor

Department of Mathematical Sciences

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Current Research:

- Clean and Nil clean rings, Commutativity degree of finite rings, Primitive normal elements of finite fields, Permutation Polynomials over finite fields.

Positions:

- **Professor**
 - **Institute:** Tezpur University, Assam, India
 - **Joining:** 22nd March 2017
- **Associate Professor**
 - **Institute:** Tezpur University, Assam, India
 - **Tenure:** 5th August 2011 - 21st March 2017
- **Senior Lecturer**
 - **Institute:** D.H.S.K. College, Dibrugarh, Assam
 - **Tenure:** 2nd August 2011 - 4th August 2011
- **Reader (On lien)**
 - **Institute:** Assam University, Silchar, Assam
 - **Tenure:** 3rd August 2009 - 1st August 2011
- **Senior Lecturer**
 - **Institute:** D.H.S.K. College, Dibrugarh, Assam
 - **Tenure:** 9th September 2006 - 2nd August 2009
- **Lecturer**
 - **Institute:** D.H.S.K. College, Dibrugarh, Assam
 - **Tenure:** 9th September 1998 - 8th September 2006

Educational Qualifications:

- **Doctor of Philosophy (Ph.D.) Mathematics, 2005**
 - **Institute:** Dibrugarh University, Dibrugarh, Assam, India.
- **Master of Sciences (M.Sc.) Mathematics, 1996 (Result declared in 1997)**

- Rank - 1
- Gauhati University, Guwahati, Assam, India.
- **Bachelor of Sciences (B.Sc.) Mathematics, 1994**
 - Rank - 5 in Gauhati University.
 - Goalpara College (Under Gauhati University), Goalpara, Assam India.
- **Higher Secondary, Science, 1991**
 - Goalpara College, Goalpara, Assam India.
- **Matriculation, 1989**
 - Baladmari High School, Goalpara, Assam India.

Publications (Journals):

- *Existence of Special Types of Primitive Pairs in Finite Fields Avoiding Affine Hyperplanes*, **Applicable Algebra in Engineering, Communication and Computing** 2025, (Accepted) (With Himangshu Hazarika and Giorgos Kapetanakis).
- *Primitive normal pairs with prescribed traces over finite fields*, **Ars Combinatoria** 2025, (Accepted) (With Sikhamoni Nath and Arpan Chandra Mazumder).
- *Formal triangular matrix ring with nil clean index 4*, **Journal of the Assam Academy of Mathematics**, Vol. 13, 1-4, 2023.(with J. Bhattacharyya)
- *Characterization and commuting probability of n -centralizer finite rings* **Proyecciones Journal of Mathematics**, Vol. 42, No 6, pp. 1489-1498, December 2023.
<https://doi.org/10.22199/issn.0717-6279-5440> (with J. Dutta and R. K. Nath)
- *Pair of Primitive Normal Elements of Rational Form Over Finite Fields of Characteristic 2*, **Indian Journal of Pure and Applied Mathematics**, 54(1), 66-75, March, 2023,
<https://doi.org/10.1007/s13226-022-00231-y> (with H.Hazarika).
- *On the existence of primitive normal elements of rational form over finite fields of even characteristic* **International Journal of Algebra and Computation**, 2022,
DOI: 10.1142/S0218196722500187 (With Himangshu Hazarika and Giorgos Kapetanakis).
- *On existence of primitive normal elements of cubic form over finite fields* **Algebra Colloquium**, 29 : 1 (2022) 151-166, DOI: 10.1142/S1005386722000128 (with H.Hazarika).
- *Nilpotent Graph* **Theory and Applications of Graphs**, Vol. 8 : Iss. 1 , Article 2 (2021)
DOI: 10.20429/tag.2021.080102 (with Ajay Sharma and Rahul Dutta).
- *Nil clean divisor graph* **Transactions of National Academy of Sciences of Azerbaijan. Series of Physical-Technical and Mathematical Sciences, Issue Mathematics**, , 41 (1), 146-153 (2021) (with Ajay Sharma)
- *Characterizing some rings of finite order* **Tamkang Journal of Mathematics**, 53(2021).
<https://doi.org/10.5556/j.tkjm.53.2022.3370> (with J. Dutta and R. K. Nath)
- *The existence of primitive normal elements of quadratic forms over finite fields* **Journal of Algebra and Its Applications**, (2020) <https://doi.org/10.1142/S0219498822500682>, (with H.Hazarika and S.D. Cohen) .
- *Nil Clean Ideal*, **Annali dell'Universit di Ferrara** (2019) <https://doi.org/10.1007/s11565-019-00327-0> (with Ajay Sharma)

- Weak Nil Clean Ideal, *Rendiconti del Circolo Matematico di Palermo Series 2* (2019) DOI: 10.1007/s12215-019-00426-z (with Ajay Sharma)
- Weak clean index of a ring, *Beiträge Zur Algebra und Geometrie* (2019). <https://doi.org/10.1007/s13366-019-00439-w> (with J. Bhattacharyya)
- Weakly r -clean rings and weakly $*$ -clean rings, *Scientific Annals of the Alexandru Ioan Cuza University of Iasi (NS). Mathematics* Tomul LXV, 2019, f. 2, 227 - 239 (with Ajay Sharma)
- Some bounds for commuting probability of finite rings, *Proceedings-Mathematical Sciences* (2019) 129:1, DOI: 10.1007/s12044-018-0448-6 (with Jutirekha Dutta)
- A note on n -centralizer finite rings, *Analele Stiintifice Ale Universitatii Al I Cuza Din Iasi-Serie Noua-Matematica* Tomul LXIV, 2018, f. 1, 161-171 (with Jutirekha Dutta and R. K. Nath)
- On generalized non-commuting graph of a finite ring, *Algebra Colloquium* 25 : 1 (2018) 149-160, DOI: 10.1142/S100538671800010X, (with Jutirekha Dutta and R. K. Nath)
- Nil clean graphs of rings, *Algebra Colloquium*, 24 : 3 (2017) 481-492, DOI: 10.1142/S1005386717000311 (with J. Bhattacharyya)
- On commuting probability of finite rings, *Indagationes Mathematicae*, 28 (2), 372-382, 2017, DOI : 10.1016/j.indag.2016.10.002, (with Jutirekha Dutta and R. K. Nath)
- Nil clean index of rings, *International Electronic Journal of Algebra* 15 (2014) 145 -156 (with J. Bhattacharyya).
- $(\epsilon, \epsilon \vee q)$ -Fuzzy Ideals of BG-algebra, *International Journal of Algebra*, Vol.5, 2011, no. 15, 703 -708. (With L. B. Singh)
- A note on Intuitionistic Fuzzy Equivalence Relation, *International Mathematical Forum*, Vol. 5, 2010, no. 67, 3301 - 3307. (With N. K. Sarma).
- (α, β) -cut of Intuitionistic Fuzzy Ideals, *International Journal of Algebra*, Vol. 4, 2010, no. 27, 1329 - 1334.
- Intuitionistic Fuzzy Ideals, *Journal of Fuzzy Mathematics*, Vol. 15, No. 4, 2007, 811 - 819.
- Intuitionistic Fuzzy Projective and Injective submodule, *Journal of Fuzzy Mathematics*, Vol. 15, No. 4, 2007, 821 - 828.
- Intuitionistic Fuzzy Subrings and Ideals, *Journal of Fuzzy Mathematics*, Vol. 11, No. 1, 2003, 139 - 155. (With B. Banerjee).
- Intuitionistic fuzzy divisible and pure submodule, *Advances in Fuzzy Mathematics*, 12 (1), 77-91, 2017 (with Devanjan Hazarika)

Submitted:

- An estimate for incomplete mixed character sums and applications (with Arpan Chandra Mazumder, Giorgos Kapetanakis and Sushant Kala)
- On r -primitive k -normal Gauss periods of type $(n, 2)$ (With Arpan Chandra Mazumder)
- Primitive pairs of rational functions with prescribed traces over finite fields (With Sikhamoni Nath) (DOI: 10.48550/arXiv.2411.15568)
- Primitive normal Values of rational functions with one prescribed norm and trace over finite

fields (With Arpan Chandra Mazumder) (**arXiv preprint arXiv:2405.05298**)

- *Construction of Permutation Polynomials over Finite Fields with the help of SCR polynomials* (With Bidushi Sharma) (**arXiv preprint arXiv:2404.00927**)
- *Primitive normal pairs of elements with one prescribed trace* (With Arpan Chandra Mazumder, Himangshu Hazarika and Giorgos Kapetanakis) (**arXiv preprint arXiv:2306.03426**)

Preprint:

- *Weak Nil Clean Rings* (with J. Bhattacharyya) (**arXiv preprint arXiv:1510.07440**).

Publications (Proceedings):

- *Relative non-commuting graph of a finite ring* , **Proceedings of 50th symposium on ring theory and representation theory, Japan, 7th – 10th October, 2017, University of Yamanashi, Japan** p 40-46 (With Jutirekha Dutta).
- *More on Intuitionistic fuzzy ideals with thresholds (α, β) of rings*, **Proceedings of International Workshop on Fuzzy Sets, Rough Sets, Uncertainty Analysis and Applications, 21st – 25th November, 2011, organized jointly by ISI Kolkata and dept. of Mathematics, NIT Durgapur, West Bengal** (With L. B. Singh).
- *Fuzzy Superfluous Submodule*, **Proceeding of The 6th IMT GT International conference on Mathematics, Statistics and its applications (ICMSA 2010), 3 - 4 November, 2010, Kuala Lumpur, Malaysia**, 330 - 335.(With N.K. Sarma and L.B. Singh)
- *IFM of IF Goldie Dimension*, **Proceedings of the Annual Conference of KMA and National Seminar on Fuzzy Mathematics and Applications, Kerala, India, 2004**, 131 - 143.
- *Intuitionistic Fuzzy Essential Submodules*, **Proceedings of the International Symposium on Mathematics and its Application 2002 (Dept. of pure Mathematics, University of Calcutta, Kolkata)**, 113 - 124.

Book Published:

- *Topics in Intuitionistic Fuzzy Algebra*, **LAP Lambert Academic Publishing Germany**, 2011, ISBN - 3844391479.

Research Scholars

At Tezpur University:

- **Dr. Jayanta Bhattacharyya** (A STUDY OF CLEAN AND NIL CLEAN PROPERTIES OF RINGS), Degree awarded by Tezpur University on 16th March, 2018.
Current Position : Assistant Professor, Joya Gogoi College, Golaghat, Assam.
- **Dr. Jutirekha Dutta** (COMMUTATIVITY DEGREE OF FINITE RINGS), Degree awarded by Tezpur University on 5th September, 2018.
Current Position : PGT, Department of Mathematics, Assam Valey School, Tezpur, Assam.
- **Dr. Ajay Sharma** (CERTAIN CLASSES OF CLEAN RINGS), Degree awarded by Tezpur

University on 8th September 2020.

Current Position : Assistant Professor, Sadiya College, Sadiya, Assam.

- **Dr. Himangshu Hazarika** (SPECIAL TYPES OF PRIMITIVE ELEMENTS OF FINITE FIELDS), Degree awarded by Tezpur University on 30th November 2022.

Current Position : Assistant Professor, Tezpur College, Sonitpur, Assam, India.

- **Mr. Arpan Chandra Mazumder** (Ongoing)
- **Ms. Bidushi Sharma** (Ongoing)
- **Ms. Shikhamoni Nath** (Ongoing)
- **Mr. Surajit Sarkar** (Ongoing)
- **Ms. Bhitali Koushik** (Ongoing)

At Assam University:

- **Dr. L. B. Singh** (A STUDY OF RINGS, MODULES AND DIFFERENT KINDS OF ALGEBRAS IN FUZZY SETTINGS), Degree awarded by Assam University Silchar on 22th September 2014.

Current Position : Assistant Professor, Manipur College, Imphal.

- **Dr. Saidur Rahman Barbhuiya** (A STUDY OF ABSTRACT ALGEBRAS IN FUZZY SETTINGS), Degree awarded by Assam University Silchar on 3rd September 2016.

Current Position : Principal, PDUAM, Katlicherra, Hailakandi, Assam, India.

- **Dr. Devanjan Hazarika** (ON FUZZY ALGEBRAIC STRUCTURES), Degree awarded by Assam University Silchar on 14th December 2017.

Current Position : Associate Professor, Department of Mathematics, D.H.S.K. College Dibrugarh, Assam, India

- **Dr. Ananta Kumar Dutta** (A STUDY ON SOME TOPIC ON FUZZY ALGEBRAIC STRUCTURE), Degree awarded by Assam University Silchar on 12th October 2018.

Current Position : Controller of Examination, Majuli University of Culture, Assam, India

Invited Talk / Resource Person

2025

- Resource person in MTTS Level 2 (Algebra) during 26 May - 07 June, 2025, organized by the MTTS Trust at IISER Pune and funded by the National Board for Higher Mathematics(NBHM), DAE, India.

2024

- Delivered two lectures on 'Ring Theory' in the Refresher Course in Mathematical Sciences during 11-24 December 2024 organized by Malaviya Mission Teacher Training Centre (MMTTC), Tezpur University and Dept. of Mathematical Sciences, Tezpur University under the aegis of the University Grants Commission.
- Resource person in MTTS Overture Programme, during 25 - 26 October, 2024, organized by

the MTTS Trust at D. K. D. College, Dergaon, Golaghat, Assam and funded by the National Board for Higher Mathematics(NBHM), DAE, India.

- Resource person in MTTS Overture Programme, during 27 - 28 September, 2024, organized by the MTTS Trust at J. N. College, Pasighat, Arunachal Pradesh and funded by the National Board for Higher Mathematics(NBHM), DAE, India.
- Resource person in Init-Math(Initiation Into Mathematics) programme, during 8 - 13 July, 2024, organized by the MTTS Trust at Mizoram University, Aizawl, India and funded by the National Board for Higher Mathematics(NBHM), DAE, India.
- Resource person in MTTS Level O (Foundation) during 27 May - 08 June, 2024, organized by the MTTS Trust at SMIT Sikkim and funded by the National Board for Higher Mathematics(NBHM), DAE, India.
- Delivered a talk “Some recent developments of primitive and normal elements of finite fields” as an Invited Speaker in the “International Conference on Mathematics and Application in Science, Technology and Society (ICMASTS-2024)”, organised by Assam Don Bosco University, Guwahati, Assam during 9 - 10 May, 2024.
- Resource person and Coordinator in Init-Math(Initiation Into Mathematics) programme, during 3 - 8 January, 2024, organized by the MTTS Trust at Tezpur University, Assam, India and funded by the National Board for Higher Mathematics(NBHM), DAE, India.

2023

- Resource person in MTTS Overture Programme, during 17 - 18 November, 2023, organized by the MTTS Trust at Jorhat Institute of Science and Technology, Jorhat, Assam and funded by the National Board for Higher Mathematics(NBHM), DAE, India.
- Delivered an invited talk at Handique Girls’ College, Guwahati on the eve of National Mathematics Day Celebration organized by Assam Academy of Mathematics, Handique Girls’ College and USTM Meghalaya, on 22nd December 2023.
- Resource person in Mathematics Olympiad Teachers Training Camp (MOTTCa 2023) during 20 - 24 November 2023, organized by NIT 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.
- Resource person in MTTS Overture Programme, during 17 - 18 November, 2023, organized by the MTTS Trust at Jorhat Institute of Science and Technology, Jorhat, Assam and funded by the National Board for Higher Mathematics(NBHM), DAE, India.
- Delivered a talk “On the recent developments of primitive and normal elements of finite fields” as an Invited Speaker in the “National Conference on Mathematics and its Applications-II (NCMA-II) 2023”, organised by Cotton University, Guwahati, Assam during November 7 - 8, 2023.
- Resource person in Online Foundation Course in Mathematics (OFCM-2023) held during 20

August - 02 September, 2023, organized by the MTTS Trust and funded by the National Board for Higher Mathematics, DAE, India.

- Resource person in Residential Training of Science Teachers of provincialized school teachers of Assam, during 03-15 July 2023, organized jointly by Tezpur University and Samagra Shiksha Assam.
- Resource person in MTTS Level O (Number Theory) during 22 May - 03 June, 2023, organized by the MTTS Trust at IIT Madras and funded by the National Board for Higher Mathematics (NBHM), DAE, India.
- Resource person and Academic Coordinator in InitMath (Initiation Into Mathematics) programme, during 1 - 6 April, 2023, organized by the MTTS Trust at Ramkrishna Mission Vivekananda Centenary College (RKMVCC), Rahara. Kolkata and funded by the National Board for Higher Mathematics (NBHM), DAE, India.
- Resource person in the Students' intercation programme on Mathematics, at the Department of Mathematics, Dudhnoi College, Goalpara, Assam on 25th March 2023.
- Delivered a popular talk at the Department of Mathematics, Nalbari College, Nalbari, Assam on 24th March 2023.
- Delivered an invited talk on "Mathematics for Everyone!" at the Department of Mathematics, Royal Global University, Guwahati, on 14th March 2023 on the occasion of International Day of Mathematics.

2022

- Delivered an invited talk at Marigaon Town H. S. School, Marigaon on the eve of National Mathematics Day Celebration organized by Aryabhatta Science Centre, Morigaon District, District Administration, Morigaon and Inspector of Schools, Morigaon, on 22nd December 2022.
- Resource person in InitMath (Initiation Into Mathematics) programme, during 22 - 27 September, 2022, organized by the MTTS Trust at Assam Don Bosco University, Assam and funded by the National Board for Higher Mathematics (NBHM), DAE, India.
- Resource person in MTTS Level O (Foundation) during 13 June - 25 June, 2022, organized by the MTTS Trust at IISER Kolkata and funded by the National Board for Higher Mathematics (NBHM), DAE, India.
- Delivered an invited talk (online) on "Introduction to Determinants - Geometrical Approach" in the Three days National Conference on International Day of Mathematics (Pi-day) held during 12 - 14 March 2022, at the Department of Mathematics, Manipur University, Imphal, Manipur.
- Delivered an invited talk on 'Real Analysis' at the Department of Mathematics, USTM, Meghalaya, on 22 January 2022.
- Resource Person / Academic coordinator in the OFCM (Online Foundation Course in Mathematics) follow up camp 2022 on Real Analysis, organised by MTTS Trust, Hyderabad, 9-21

January, 2022

- Resource person in the "Students Enrichment Programme" and delivered a lecture on "Understanding Mathematics" for the M.Sc. students of Manipur University, jointly organized by Department of Mathematics, Manipur University and the Department of Mathematical Sciences, Tezpur University, held at Department of Mathematical Sciences, Tezpur University, on 4th January 2022.

2021

- Delivered an Invited Talk(Webinar) on 'Introduction to Finite Fields' organised by USTM, Meghalaya, December 8, 2021.
- Delivered a talk(Webinar) "On primitive and normal elements of finite fields" as Invited Speaker in the "International Webinar on Foundations for Contemporary Mathematical Research", organised by Manipur University, November 8 - 10, 2021.
- Delivered an Invited Talk(Webinar) on 'LEARNING MATHEMATICS' organised by Tyagbir Hem Baruah College, Jamugurihat, Sonitpur, Assam, on 20 July 2021.
- Resource person in MTTS Level O (held online) during 12 June - 04 July, 2021, organized by the MTTS Trust and funded by the National Board for Higher Mathematics, DAE, India.

2020

- Delivered an Invited Talk(Webinar) organised by IQAC, Arya Vidyapeeth College, Guwahati, Assam on 16 August 2020.
- Invited speaker(Webinar) in 'National Workshop on Analysis and Linear Algebra (NWALA2020)' held during July 23-24, 2020 at D.H.S.K. College, Dibrugarh, Assam.
- Delivered an Invited Talk(Webinar) on 'CONSTRUCTION OF REAL NUMBERS' in an online lecture series organised by University of Science and Technology, Meghalaya on 21 June 2020.
- Delivered an Invited Talk(Webinar) on 'CARDINALITY OF SETS' organised by University of Science and Technology, Meghalaya on 12 June 2020.
- Resource Person in the Mini MTTS program of the MTTS Trust (National Board for Higher Mathematics) at Kaziranga University, Jorhat, Assam during 22nd - 27th February, 2020.

2019

- Resource person in the PTMT (Pedagogical Training for Mathematics Teachers) programme (Under the aegis of MTTS Trust funded by NBHM) on Group Theory, at Department of Mathematical Sciences, Tezpur University during 25th – 30th December, 2019
- Resource person in the Workshop of 'Mathematics Learning' under TEQIP-III of MHRD, GoI organised by Assam Science and Technology University(ASTU) and GIMT Tezpur at GIMT Tezpur on 16th November, 2019.
- Resource person in the Capacity Building Programme in Mathematics for Secondary and Senior Secondary teachers organised by CBSE at Tezpur Gurukul School, Tezpur during 27th – 28th

August, 2019.

- Resource person in the Faculty Development Program under TEQIP-III of MHRD, GoI organised by Assam Science and Technology University (ASTU) and GIMT Tezpur at GIMT Tezpur on 26th August, 2019.
- Resource person in the Capacity Building Programme in Mathematics for Secondary and Senior Secondary teachers organised by CBSE at Kingcup Public School, Itanagar during 26th – 27th July, 2019.
- Acted as resource person in the Mathematics Olympiad training programme organised by and held at Darrang College, during 8th and 9th July 2019
- Acted as resource person in the “Mathematics Training Programme for undergraduate teachers and students” held at IIT Guwahati from 1st to 6th July, 2019 organised by Centre for Educational Technology (under PMMMNMTT) and Department of Mathematics, IIT Guwahati.
- Delivered an invited talk on the eve of Pi-day celebration at University of Science and Technology, Meghalaya on 14th March 2019.
- Delivered a one and half hour invited talk titled “*On some special types of primitive elements over finite fields*” in the UGC-SAP sponsored national seminar Topology and Algebra at NEHU, Shillong on 13th March 2019.
- Acted as a resource person in INMO training camp at Assam Science Society office, Guwahati, organized by Assam Academy of Mathematics sponsored by NBHM on 5th January 2019.

2018

- Invited talk on “*Fun with Mathematics*” at GIMT Tezpur on the eve of National Mathematics Day Celebration organized by GIMT, Tezpur on 22nd December 2018.
- Delivered a series of 5(five) lectures on *Rings and Modules* in ‘A short term course on Algebra and Optimization’, at NIT Nagaland, during 10th - 12th December, 2018.
- Resource Person in the Mini MTTS program of the National Board for Higher Mathematics at Kohima Science College, Nagaland, during 3rd - 8th December, 2018.
- Resource person in the Capacity Building Programme in Mathematics for Secondary and Senior Secondary teachers organised by CBSE at Maria’s Public School Guwahati during 2nd – 3rd November, 2018.
- Resource person in the TPM (Training Programme in Mathematics)(Level-1) 2018 of D.A.E. Govt. of India at NISER Bhubaneswar during 4th June - 16th June, 2018.
- Delivered a series of 5(five) lectures on *Rings and Modules* to the teachers and research scholars of NEHU, Shillong, as a Visiting Professor under the UGC SAP DRS II programme in Mathematics, during 22nd - 25th March 2018.
- Resource Person in the Mini MTTS program of the National Board for Higher Mathematics at Tezpur University, during 3rd - 8th January, 2018.

2017

- Invited talk on Srinivasa Ramanujan and interaction with the students and faculty members of GIMT Tezpur on the eve of National Mathematics Day Celebration organized by GIMT,

Tezpur on 22 December 2017.

- Delivered an Invited talk on "Current Trends in Ring Theory" at NIT Nagaland on 15th September, 2017.
- Resource person in the "Innovative and Contemporary Teachers Training Program" (ICTM)(Under PMMMNMTT, DHE, GoI) at NIT Silchar during 14th August - 18th August, 2017.
- Resource person in the TPM (Training Programme in Mathematics)(Level-1) 2017 of D.A.E. Govt. of India at NISER Bhubaneswar during 5th June - 17th June, 2017.

2016

- Resource Person in the Mini MTTS program of the National Board for Higher Mathematics at Mizoram University, during 14th - 17th December, 2016.
- Resource person in the TPM (Training Programme in Mathematics)(Level-2) 2016 of D.A.E. Govt. of India at NISER Bhubaneswar during 6th June - 18th June, 2016
- Resource person in the MTTS program (Level-I) of the National Board for Higher Mathematics at IIT Madras, Chennai, during 23rd May - 5th June, 2016.

2015

- Resource person in the TPM (Training Programme in Mathematics)(Level-1 and 3) 2015 of D.A.E. Govt. of India at NISER Bhubaneswar during 8th June - 20th June, 2015
- Resource person in the MTTS program (Level-0) of the National Board for Higher Mathematics at Goa University, during 11th May - 23rd May, 2015.
- Delivered a series of seven (7) lectures on *Real Analysis and Linear Algebra* in the Workshop on Algebra and Analysis from 17th to 23rd February, 2015, sponsored by NBHM at Tezpur University.

2014

- Delivered a series of three (3) lectures *Real Analysis* in the One week Faculty Development Programme for the teachers of Mathematics in degree colleges (having major in Mathematics) of Assam from 12th to 18th December 2014 (sponsored by UGC-SAP(DRS-I)) at Tezpur University.
- Resource person in the MTTS program (Level-0) of the National Board for Higher Mathematics at IIT, Guwahati during 23rd June - 5th July, 2014.

2013

- Delivered an invited talk on *Construction of Real number system* at D.H.S.K. College, Dibrugarh, Assam on September 21, 2013.
- Delivered a series of two lectures on *Real Analysis* in the Workshop on Undergraduate Algebra, Analysis and its Applications for North East, organized Jointly by the Indian Statistical Institute, North East Centre and the Department of Mathematical Sciences, Tezpur University,

March 28 to April 03, 2013 sponsored by Indian Statistical Institute and a UGC-SAP (DRS-I) of Tezpur University.

2012

- Resource person in the MTTS program (Level-0) of the National Board for Higher Mathematics at IIT, Guwahati during 14-26 May, 2012.
- Delivered a one hour invited talk on *Almost Nil clean rings* in the National conference on Emerging trends in Mathematics and its applications D.A.V. College Jalandhar (Punjab), 4th February to 6th February, 2012.

2011

- Delivered a series of six lectures in a six day NBHM sponsored workshop (Mathematical Excursion) for Mathematics Olympiad for the students of Class IX, X, XI, XII and school teachers organized by Assam Academy of Mathematics at NIT Silchar from 30th June to 5th July 2011.

2010

- Delivered a series of two lectures in a 2 day workshop for PGT and TGT teachers of all Kendriya Vidyalayas of North East for Mathematics Olympiad in KV Srikona, Silchar, Assam on 19th and 20th February 2010.
- Resource person in INSPIRE a programme of DST, Govt. of India, for students of Higher secondary of all Assam in Assam University, Silchar from 4th to 10th February, 2010.

OLD

- Resource person in the MTTS program (Level-0) of the National Board for Higher Mathematics at IIT, Guwahati during May - June, 2007.
- Delivered a series of four lectures on *Real Analysis* in a 7-day workshop for graduate level students of different colleges under Dibrugarh University at the Department of Mathematics, Dibrugarh University, Organised by META (Mathematics Education Trust of Assam), 2004-05.

Conference/Seminar/workshop attended:

- *50th symposium on ring theory and representation theory*, 7 - 10 October, 2017, University of Yamanashi, Kofu, Japan.
- International Workshop on *Fuzzy Sets, Rough Sets, Uncertainty Analysis and Applications*, 21st – 25th November, 2011, organised jointly by ISI Kolkata and dept. of Mathematics, NIT Durgapur, West Bengal.
- *The 6th IMT - GT International conference on Mathematics, Statistics and its applications (ICMSA 2010)*, 3 - 4 November, 2010, Kuala Lumpur, Malaysia,
- International Workshop on *Computational methods and Function Theory* (CMFT, 2008), IASST, Guwahati, 3 -10 January, 2008.

- Workshop on *Mathematical Programming and related topics on Optimization Methods, Application and Practices* organized by ISI Kolkata jointly with the Department of Statistics, Dibrugarh University, at Dibrugarh University, 12 - 14 November, 2007.
- Workshop on *Some Recent Trends in Application of Mathematics*, Department of Mathematics, Dibrugarh University, 9 - 10 March, 2006
- *Regional Seminar on Mathematics*, Department of Mathematics, Dibrugarh University, 10th January, 2005.
- *The Annual Conference of Kerala Mathematical Association and National Seminar on Fuzzy Mathematics and Applications*, Kerala, India, 8 - 10 January, 2004.
- *International Symposium on Mathematics and its Application*, Department of Pure Mathematics, University of Calcutta, Kolkata, India, 13 -15 November, 2002.
- *89th Session of Indian Science Congress 2002*, Lucknow University, Lucknow, India.
- *Turn of the Millennium Lectures in Mathematics, Functional Analysis: Current Directions*, IIT Guwahati, 20 - 24 December, 1999.

Seminar/workshop organised:

- *Init-Math(Initiation Into Mathematics)* programme, during 3 - 8 January, 2024, organized by the MTTS Trust at Department of Mathematical Sciences, Tezpur University, Assam, India and funded by the National Board for Higher Mathematics (NBHM), DAE, India.
- *PTMT (Pedagogical Training for Mathematics Teachers)* programme (Under the aegis of MTTS Trust funded by NBHM) on Group Theory, at Department of Mathematical Sciences, Tezpur University during 25th – 30th December, 2019
- *Mini MTTS* from 3rd to 8th January, 2018, sponsored by NBHM at department of Mathematical Sciences, Tezpur University.
- *Workshop on Algebra and Analysis* from 17th to 23rd February, 2015, sponsored by NBHM at Tezpur University.
- One week *Faculty Development Programme* for the teachers of Mathematics in degree colleges (having major in Mathematics) of Assam from 12th to 18th December 2014 (sponsored by UGC-SAP (DRS-I)) at Tezpur University.
- Workshop on *Undergraduate Algebra, Analysis and its Applications for North East*, organised Jointly by the Indian Statistical Institute, North East Centre and the Department of Mathematical Sciences, Tezpur University, March 28 to April 03, 2013 sponsored by Indian Statistical Institute and a UGC-SAP (DRS-I) of Tezpur University.
- Conducted a Six day NBHM sponsored workshop (Mathematical Excursion) on Mathematics for the students of Class IX, X, XI, XII and school teachers organized by Assam Academy of Mathematics at NIT Silchar from 30th June to 5th July 2011.

Reviewer

- Mathematical Reviews (AMS).
- Annals of Fuzzy Mathematics and Informatics.
- An. Univ. Oradea, Fasc. Mat.(Analele Universitatii din Oradea. Fascicola Matematica)

- Mathematical Forum
- Transactions of A. Razmadze Mathematical Institute (Elsevier)
- Boletim da Sociedade Paranaense de Matemtica
- Proceedings of the National Academy of Sciences, India, Section A: Physical Sciences (Springer)
- Zentralblatt MATH
- Southeast Asian Bulletin of Mathematics
- Jordan Journal of Mathematics and Statistics
- Finite Fields and Their Applications
- Bulletin of Australian Mathematical Society
- Journal of Assam Acedemy of Mathematics
- Theory and Applications of Graphs

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