

ANNUAL REPORT

2016-2017

TEACHING LEARNING CENTRE

A Centre of Excellence for Curriculum & Pedagogy



TEZPUR UNIVERSITY
Napaam, Assam

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PREFACE

The Teaching Learning Centre (TLC) of Tezpur University was set up under the central government's Pandit Madan Mohan Malaviya National Mission on Teachers and Training scheme. TLC was formally inaugurated on January 28, 2016. Initially, TLC depended on the faculty of the Department of Education, Tezpur University who shouldered the responsibilities in a commendable manner. Since then a dedicated faculty and staff have been appointed and several activities have been completed. TLC has grown in terms of infrastructure as well. The following report is an attempt to highlight the activities undertaken to supply some relevant particulars. Though we realize that much remains to be done, the initial part of the journey, we hope, has been satisfactory.

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1. Introduction

In line with the National Policy on Education (NPE) 1986, the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT) made a focused reference to the crucial dependence of quality ensured delivery of education. The Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT) is a central government sponsored scheme with all-India coverage. One among the initiatives of PMMMNMTT is setting up of Teaching Learning Centre (TLC) in different Central Universities.

The TLC promotes the value and practice of excellent teaching that facilitates student learning. The TLC program and resources support evidence based teaching and provide diverse opportunities for teachers. TLC also aims to empower teachers through training, re-training, refresher and orientation programmes in generic skills, pedagogic skills, discipline specific content up-gradation, ICT and technology enabled training and other appropriate interventions. Keeping in mind the noble mission behind launching the PMMMNMTT Scheme and the growing realization of a system-wide transformation, Tezpur University came forward to take the initiative of setting up a TLC under the Centre of Excellence for Curriculum and Pedagogy. As a research-extensive university, Tezpur University has always had a unique mission to support the learning, integrating teaching, research, and service in order to better serve the people. In order to meet the teaching and learning needs of North East India in specific and India in general, Tezpur University set up a distinct Teaching Learning Centre in its campus with the financial support of MHRD under the PMMMNMTT Scheme. Teaching Learning Centre, Tezpur University, Tezpur, Assam was formally inaugurated on January 28, 2016.

2. Vision

The TLC envisions 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 with committed and professional staff through reflective research-based practice and the optimal use of technology.

3. Mission

- To accelerate teaching-learning process by way of promoting independent, critical and creative thinking.
- To hand hold the teaching community in facilitating research for subject specific growth.
- To enable the development of skills engaging latest technological devices as aids to teaching-learning process.
- To help faculty in capacity building for curriculum designing and scientific assessment and evaluation.
- To provide information about resources and events related to the enhancement of teaching and learning.

- To develop innovative programmes in order to strengthen the inclusive nature of higher education by bringing the disadvantaged and marginalized sections of the society.

4. Objectives of the Teaching Learning Centre

1. To develop subject related learning materials, resources including handbooks, reference books, e-content materials, etc.
2. To develop discipline specific (Science, Mathematics, Language and Social Science) curricular framework for professional development programme.
3. To organize workshops and seminars to facilitate capacity building and professional development among teachers.
4. To prepare an outline of different pedagogy and scheme of assessment and evaluation method of different discipline.
5. To be repositories of resources, including reference services and electronic data bases.
6. To provide assistance and support for promoting research on issues related to teaching and learning practices, research studies and surveys undertaken by various institutes.
7. To collate and promote best teaching–learning practices among the learning community.
8. To publish journals, reports for disseminating of knowledge related to latest development in the field of teaching and learning.

5. TLC Advisory Committee Members with Designation

1. Dean, School of Humanities and Social Sciences, TU	Ex-officio Chairperson
2. Director, Teaching Learning Centre, TU	Ex-officio Co-Chairperson
3. Head, Department of Education	Ex-officio Member Secretary
4. All Deans of Schools	Members
5. Registrar, TU	Member
6. Controller of Examination, TU	Member
7. Dr. Swarnalata Das, Professor Emeritus, Gauhati University	Member
8. Dr. Santosh Panda, Professor, Staff Training and Research Institute of Distance Education, IGNOU	Member
9. Dr. Yeasmin Sultana, Asst. Professor, Dept. of Education, TU	Member

6. Programmes/ Activities to be undertaken in the TLC

1. Development of Teaching Learning Materials including E-content
2. Prepare an outline of different pedagogy and scheme of assessment and evaluation
3. Professional Development Programmes
4. Pre-Induction Programmes
5. Orientation Programs/ Refresher Courses
6. Workshop on various themes of Teaching and Learning
7. Seminar / Conference
8. Action Research Programme
9. Publication (Handbooks, Proceeding of seminars and Journals on Teaching Learning)
10. Resource Support
11. Research

7. Target Group: College and University Level Teachers and Researchers and students.

8. Human resource:

Designation	Name	Date of Joining
DIRECTOR	Dr. Prasanta K. Das Professor, Dept. of EFL, TU	May 2016
ASST. PROFESSOR	Ms. Swapnarani Bora Discipline: Assamese	24 th May, 2016
ASST. PROFESSOR	Mr. Ikbal Hussain Ahmed Discipline: Philosophy	2 nd June, 2016
RESEARCH ASSOCIATE	Ms. Bhushita Patowari Discipline: Statistics	18 May 2016
TECHNICAL ASSISTANT	Mr. Milan Jyoti Deka Discipline: Electronics and Communication Engineering	15 June 2016

9. Time Schedule Program of 2016 - 2017

Program	Duration Days
Personality Development Program for Teachers, Research Scholars and PG students	10 days
Refresher Course in Cultural Studies for Teachers	21 days
Workshop for Science Teachers (RBPT)	3 days
National Seminar on Issues and Challenges in Higher Education	3 days
Workshop on Massive Open Online Courses (MOOCs)	2 days
Workshop On Quality Teacher Education: Capacity Building of Teacher Educators	2 days

10. Detail Report on conducted activities

10.1. Report on Workshop on Personality Development Programme

A ten-day workshop on “Personality Development Programme” was organized by Teaching Learning Centre (TLC), Tezpur University, Tezpur, Assam from 27th August to 5th September, 2016. The main objective of the Workshop was to familiarize participants with the emerging ideas and trends on how to develop personality in the 21st century contexts. The programme also aimed to teach participants to work with various professionals, people and groups to understand the meaning of life and work in the present context; to enhance their communication skills and interpersonal skills in order to function in professional and social settings effectively; to enrich the academic language skills (writing and presentation skills) for academic writing and presentations; to understand effective planning, time management and implementation for setting goals and achieving both personal and professional goals; to learn to evaluate oneself (self-appraisal and introspection) for further growth, personally and professionally. Human personality influences and impacts the functioning of an individual and organizations. The fact that humans are social is determined by individual as well as collective contexts. Understanding one’s own personality and nurturing it well enables one to be a fine human being and an effective professional. Humans need to learn how to cope with the problems and face the hardships while shaping out careers to become professionals and contributing citizens. University education is to enable young adults to understand the world in the liberal sense and to take forward it for the better. It is in this context that the ten-day workshop was organized by the Teaching Learning Centre of Tezpur University for Teachers, Research Scholars and Post Graduate students to enrich various aspects of their personality and to shape themselves in achieving their pursuits. The workshop adopted the processes demonstration-cum-discussion, presentation/lecture-cum-discussion, group work, group presentation, assignments and film / video viewing.

The workshop started with an inaugural session and was inaugurated by the Vice-Chancellor of Tezpur University Prof. Mihir Kanti Choudhary. Dr. R. Meganathan, Associate Professor, Department of Language in Education, NCERT, New Delhi, graced the occasion as a guest of honour. The programme was attended by the Director, TLC, Dean of School of Management Sciences, Heads and Professors and other Faculty members of Tezpur University. Ms. Swapnarani Bora, Assistant Professor, TLC delivered the welcome address of the inaugural session. It was followed by lighting of the lamp; felicitation of the guests; inaugural speech by the Vice-Chancellor, Tezpur University, Prof. Mihir Kanti Chaudhury;



concept note of the programme by Prof. P.K. Das, Director, TLC; speech from guest of honour Dr. R. Meganathan, Associate Professor, NCERT, New Delhi and Vote of Thanks by Mr. Iqbal H. Ahmed, Assistant Professor, TLC.



The Vice-Chancellor of Tezpur University inaugurated the programme with a speech focusing on personality. He also focused on the importance of workshop like personality development and motivated the new academicians to grab this kind of opportunities. Prof. P.K. Das delivered the concept note of the workshop highlighting the aim and objective of the programme. Dr. R. Meganathan, the Guest of honour summarized the idea of whole programme. He mentioned different aspects of personality and how participants would be benefitted from this kind of programme. The session ended with a vote of thanks by Mr. Iqbal H. Ahmed. He expressed gratitude to all for their contributions. There were 45 numbers of



participants from different academic institutions of Assam including PG students, research scholars and faculty members. The programme was conducted from 9.30 am to 5.30 pm with 4 sessions each day.

Day 1 (27/08/2016)



The first technical session started with “Understanding oneself: personality” by Dr. R. Meganathan. In this session participants interacted themselves in such a way that each participant introduced his/her next person so as to understand one’s personality very briefly.

Dr. R. Meganathan delivered his speech on “Living in the 21st Century: twenty first century skills”. He pointed out how do we learn, live & work in this century. Participants were asked to present

different skills of 21st century (according to them) in groups of 4 or 5 participants.





They prepared their thoughts and presented in groups. The session continued in the post-lunch sessions also. A video entitled “Wings of Evolution” on the topic of education for the marginalised was screened in the last session and the participants discussed different aspects of the film.

Day 2 (28/08/2016)

On the second day of the workshop Dr. Meganathan continued pre-lunch sessions with “Thinking Skills & Critical Pedagogy”. According to him, critical thinking includes six categories: Knowledge, Comprehension, Application, Analysis, Synthesis, and Evaluation. His speech was followed by activity of the participants. Copies of relevant newspaper editorials were distributed among participants in groups of 3 or 4 to analyze the editorials and share their views.

Following situations were given to participants in groups to present.

- Right to Education: A problem or a solution?
- Jammu and Kashmir situation now: Should we use pellets or not?
- Cow protection: Should we ban or not?
- Reservation: Disease or Cure



Day 3 (29/08/2016)

In pre-lunch sessions Dr. R. Meganathan delivered on “Communication skills and interpersonal skills” and “Academic language (English) skills”. The speaker mentioned that the crucial parts of communication skills are listening and attention.

After that the participants were asked to discuss on the following ideas in groups. The ideas were i) What ails Indian Universities, ii) Freedom is not free, iii) English language is a skill today, iv) Why is quality education elusive? v) Is social life deteriorating?

Participants prepared their theme and ideas in chart papers and then presented according to their respective groups. They discussed about main theme of their selected idea and advantages and disadvantages.



In the post-lunch sessions group activity of previous session was continued. Along with that activity of roleplaying in a given situation has been performed silently by different groups of participants and they communicate among themselves. The other groups were asked to identify the silent act.

Day 4 (30/08/2016)

Prof. Chandana Goswami, Dean, School of Management Sciences, Tezpur University discussed on “Understanding Personality” and “Communication Skills” in pre-lunch sessions. She discussed understanding own self, transactional analysis and etiquette.

In the next talk two topics were discussed. One was How moderate are you? And another one is Communication skills. Post-lunch session was taken by Dr. Hitesh Sharma, Assistant Professor, Department of Education, Tezpur University. He delivered a talk on “Barriers of communication skills”. He explained what the common barriers in communication and how to overcome from that.



The last session was Book review. Participants were asked to visit the Central Library of the University for their assignment of book review.

Day 5 (31/08/2016)

In the pre-lunch sessions Dr. Yeasmin Sultana, Assistant Professor, Department of Education, Tezpur University delivered her talk on “Time Management” and “Intelligence Test”.



She discussed about some strategies of time management namely goal setting, self-control, planning, execution/action, distractor overcoming etc. She also discussed about time matrix that help to focus on urgent and important tasks. An activity on level of stress has been performed by the speaker.



In a Post-lunch session Dr. Chandana Goswami discussed on time demands at work, time management style, planning and scheduling, finishing things and self motivation. The speaker mentioned that above all 'be true to own self'.



In the last session, Dr. Anjali Sharma, Head and Associate Professor, Department of Education, Tezpur University, discussed about How to develop personality. She discussed about the nature of personality and its importance.

Day 6 (01/09/2016)

In the first session of the day Dr. Mandakini Baruah, Assistant Professor, Department of Cultural Studies, Tezpur University, delivered her lecture on Gender Sensitization: An Important Soft Skill for Personality Development.



The speaker pointed out that by looking at some social issues a person could be gender sensitized. There is a serious need to change the mindset of the younger generations.

In the second session Prof. Papori Baruah, Head, Department of Business Administration, Tezpur University, delivered her speech on Preparation for a Good Life. She focused on support system of individual in their daily life. There is need to set the direction in our efforts.



In the post-lunch sessions Dr. Tridip Ranjan Sharma, Associate Professor, Department of Business Administration delivered a speech on “Green Workplace”. He explained the meaning of green in our workplace and green washing. He focused on reuse, reduce, recycle and rotting. Also Dr. Padmini Bhuyan Baruah, Associate Professor, Department of English Language Teaching, Gauhati University, discussed on “Effective Presentation Skills”. She discussed on requirement for effective presentation, the art of effective verbal communication and effective written presentation.

Day 7 (02/09/2016)

In pre-lunch sessions Dr. Padmini Baruah delivered her speech on “Academic reading: Skills and Strategies” and “Writing for Academic Purposes” along with some activities. The



speaker pointed out the steps of academic reading. Practice work of reading article and summarizing had been performed. She also discussed about components of good academic text like paragraph, logical sequence, discourse markers as linkers, style, content, structure.

Post-lunch sessions were delivered by Dr. Milly Baby, Associate Professor, V.N. Govt. Institute of Arts and Social Sciences, Nagpur. She discussed on “Personality Development” and “Motivation and Proactive Behaviours for Achievers”. The speaker focused on Resilience Scale and tested the resilience of participants through an activity.



Day 8 (03/09/2016)

Dr. Milly Baby discussed on “Leadership Skills: Becoming A Leader” and “Stress and Conflict Management” in the pre-lunch sessions. In the post-lunch sessions Dr. M. V. Srinivasan, Associate Professor, NCERT, New Delhi, delivered on “Learning to Research: Qualitative Research”. In this session Dr. Srinivasan told how to prepare a project proposal. Participants prepared a project proposal in a group of 3 or 4 numbers of participants and then they present their work.



Day 9 (04/09/2016)

First session of the day was taken by Dr. M. V. Srinivasan on “Style in academic Life”. He discussed about how to write academic writing. (Shaping and growing as a professional in the changing context).

Second session was taken by Dr. Milly Baby and she focused on “Being a conductive person”. A test on the black & mouton managerial grid leadership self-assessment questionnaire was performed with the participants to test their task. Post-lunch sessions were watching video and participants were assigned to prepare presentations on book review, film review, essay on particular theme for the next day.

Day 10 (05/09/2016)

In the last day of the programme pre-lunch sessions were taken by Dr. Yeasmin Sultana. These sessions were presentations from participants. Each participant presented their review work of a book and a movie. They also submitted the hard copy of their assignments.



Last session was Feedback and Valedictory. The Valedictory session was graced by Pro Vice-Chancellor, Prof. Manabendra Bhuyan, Prof. Sunil Kumar Dutta, Department of Social

Work, Prof. Madan M. Sarma, Department of EFL and Dr. Biren Das, Registrar, Tezpur University.



This session started with welcome address by Ms. Swapnarani Bora and followed by felicitation of the guests. It was followed by speech from Prof. Manabendra Bhuyan. In his speech he mentioned that personality is a quality through which we can communicate somebody else. Personality is a moral works and quality through which environment will laugh to hear oneself. It is not a quality which can be gain in a day but could be developed by practice. He also pointed that we always have to say 'yes' though we know that there is a 'no' which impact positively on one's personality. He concluded his speech congratulating the Centre for organizing this kind of programme.

Prof. Madan M. Sharma started his speech with the importance of personality development, according to him personality depends on confidence and it comes from knowledge. He felt that for an academician the entire programme was fruitful. He also added the importance of language teaching and research in development of personality.



Dr. Biren Das congratulate all for participation and successful completion of the entire programme. He mentioned one more additional point of personality in any profession is that professional ethics and that gave satisfaction in respective professions. He gave his best wishes to organize this kind of programme in near future. Prof. Sunil K. Dutta delivered his speech regarding personality with special reference to some of great persons like Srimanta Sankardeva, Rabindranath Tagore, Einstein. He added the importance of teacher in developing one's personality.

The session was followed by participants' feedback and distribution of certificates by distinguished guests.



The brief report of the workshop was presented by Prof. P.K. Das, Director, TLC. The programme was ended with vote of thanks by Ms. Bhushita Patowari, Research Associate, TLC.



10.2 National Seminar on Issues and Challenges in Higher Education

A three-day National Seminar on “Issues and Challenges in Higher Education” was organized by Teaching Learning Centre (TLC), Tezpur University, Tezpur. Higher education is extremely diverse and the challenges and issues faced by higher education institutions are found to be very crucial and multifaceted in the present scenario. Issues such as access, equity, inclusion, quality of research, privatization and financing etc. are integrally related with higher education. On the other hand, basic problems such as inadequate infrastructural facilities, less number of faculty, low enrolment rate, outdated teaching methods, declining research standards, low level of motivation among students, ethnic imbalances, gender bias, students drop out etc. persist in higher education. Besides, some other leading challenges such as continuous upgrading of curriculum, globalization, mushroom growth of private institutions, scarcity of fund to meet the demand of various novel programmes etc. has large impact on our higher education. Therefore, an attempt was made in this Seminar to arrive at a reasonable solution of the issues and challenges in higher education in India in general and



Assam in particular. The seminar started with the inaugural programme graced by honourable Vice-Chancellor of Tezpur University Prof. Mihir Kanti Chaudhuri, Pro-Vice-Chancellor Prof. Manabendra Bhuyan along with keynote speaker Prof. Krishna Kumar, Central Institute of Education, Delhi University.



The session starts with welcome address by Prof. Prasanta K. Das, Director, TLC. Prof. Das welcomed all the dignitaries, presenters and all present in the programme with a brief introduction of the Centre, different activities of the Centre and about the keynote speaker Prof. Krishna Kumar.



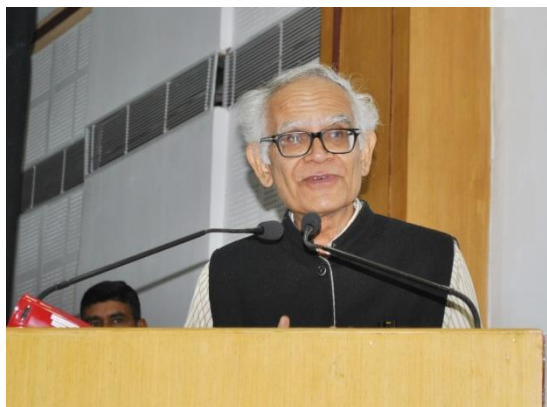
Followed that felicitation of the guests by Dr. Anjali Sharma, Convener of the Seminar and lightening of the lamp by the distinguished guests.



The inaugural speech was delivered by honorable Vice-Chancellor Prof. Mihir Kanti Chaudhuri. He mentioned that the present education scenario is quite disturbing. He appreciated the seminar theme on challenges of higher education. He also mentioned about scenario of government educational institutions in present days and some of important figures



related to implementation of various government schemes and policy in the field of education. He stressed the quantity and quality of entire education system. Following this, the concept note of the national seminar was presented by Dr. Anjali Sharma, Head, Department of Education, convener of the Seminar. Prof. Krishna Kumar delivered the keynote speech



pointing out the earlier generation of planners and educators, different functions of universities, assessment of the university system and finally how this assessment is justified. The inaugural programme ended with vote of thanks by Dr. Swapnarani Bora, Assistant Professor, TLC.

Following the inaugural session there was a plenary session chaired by Prof. Pradip Jyoti Mahanta, Dean, School of Humanities and Social Sciences. In the session speakers were Dr. Latika Gupta, Assistant Professor, Central Institute of Education, Delhi University and Prof. Amitava Mitra, Department of Economics, Rajiv Gandhi University, Arunachal Pradesh.



Dr. Latika Gupta delivered her talk on “Teacher Education: Marginalized field of Higher Education”. The speaker focused on delinking of higher education from grassroots level. Prof. Mitra delivered his talk on “Promotion of Higher Education: A Catalyst for growth of an Economy”.





These speeches were followed by question, discussion and viewpoints of the participants and speakers.



In the post lunch sessions participants presented their paper in two academic sessions. In academic session one chaired by Dr. Latika Gupta presenters are Anupama Neog, Dr. R.D. Padmavathy, Ishmirekha Handique Konwar, Dr. Reshma K. Tiwari and Dr. Jasojit Debnath. In academic session two chaired by Prof. Madan M. Sarma, Dept of English and Foreign Languages, presenters were Sujata Borthakur, Ratna Das, Ankur Kumar, Saket Bharadwaj, Dr. Yeasmin Sultana and Dr. Arup Roy.



Second day of the seminar started with an invited talk by Dr. Barbara Snook, Professional Teaching Fellow, University of Auckland, New Zealand on “An Examination of the Future of Arts Education in Schools and Higher Education Institutes”. The session was chaired by Prof.



Pradip Jyoyi Mahanta. The speaker delivered the lecture with some activities of art education. She mentioned the importance of Art Education and how it started in Australia and New Zealand.



Following that 3rd academic session was chaired by Dr. Nil Ratan Roy, Associate Professor, Department of education, and the presenters are Shyamali Baruah, Nilima Tirkey, Jyoti Rupa Deka, Mubeen Khan, Nitin

Dwivedi and Kaveri Bhattacharya. Academic session four was chaired by Prof. Prasanta K. Das, Director, TLC, and presenters are Neema Chaurasiya, Cherla Raja Mouli, Moon Moon Das, Rajit Changmai, Dimpee Sharma and Bhanu Poudel and Mohammad Asif.



Last academic session (session five) of 2nd day was chaired by Prof. C. R. Mouli, Dr. B. R. Ambedkar Open University, Telangana and presenters are Sradhanjali Pradhan, Rajinder

Singh, Tarangini Das, Santosh Subba and Nabin Manger.

Last day of the seminar started with an invited talk by Rita Banerji, Project Director, Green Hub (NEN-DFP), Tezpur, on “Conservation Stories and Video as a Tool in Environment



Education” and the session was chaired by Dr. Anjali Sharma. The speaker mentioned the importance of environmental education in higher education and its impact on our society. She also highlighted the initiatives taken by her project with the help the team members.

In the 6th academic session chaired by Dr. Nil Ratan Roy, presenters are Bhaswati Bora, Dibyangona Bora and Masum Hazarika.



The post lunch session started with an invited talk by Prof. Santosh K. Panda, former Chairman of the National Council for Teacher Education, currently Professor at Indira Gandhi National Open University (IGNOU), New Delhi, on “Indian Higher Education and Continuing Professional Development”. This was followed by valedictory function.





Certificates were distributed by the guests. The programme was ended with vote of thanks by Dr. Yeasmin Sultana, Co-convenor of the Seminar.

10.3 Workshop on Massive Open Online Courses (MOOCs)

The Teaching Learning Centre (TLC) organized a workshop on Massive Open Online Courses (MOOCs), coordinated by Dr Anjali Sharma, Head, Department of Education on November 24 and 25, 2017 from (3 PM to 5 PM).

The resource person was Professor Santosh K. Panda, former Chairman of the National Council for Teacher Education, currently Professor at Indira Gandhi National Open University (IGNOU), New Delhi and an expert on MOOCs. The programme started with a brief introduction of the speaker given by Prof. Prasanta K. Das,



Director, TLC. Felicitation of the speaker followed with a traditional Assamese Gamocha by Prof. Chandana Goswami, Dean, School of Management Sciences. The speaker started the session with



the introduction of massive open online courses (MOOCs), the importance of open online courses together with how to access online courses.



Also study materials on different topics that the speaker discussed had been distributed to the participants so that they directly go through the open online courses. The speaker also demonstrated in detail how go through these online courses. The two days programme ended with vote of thanks by Prof. Prasanta K. Das, Director, Teaching Learning Centre.

10.4 Workshop On Quality Teacher Education: Capacity Building of Teacher Educators

A two-day workshop on Quality Teacher Education: Capacity Building of Teacher Educators was organized by TLC for the faculty of Education discipline. The development of community, society, nation and universe is dependent on educational system. The holistic development of children of any nation is in the hand of teachers. School education has a symbiotic relationship with teacher education as teachers are the frontline providers of quality education. Sufficient supply of well qualified and well-trained teachers is the most important, if not the only, contributing factor of school effectiveness and quality of learning. With this paradigm shift from simplistic linear quantitative expansion to qualitative transformation in school education, the teacher education system in the country has increasingly emerged, during the last two decades or more, as an area of overriding concern. Quality is always demanded in field of Teacher Education. Under the aegis of the Teaching Learning Centre, the Department of Education, Tezpur University has taken an initiative to play a role in capacity development of teacher educators and school teachers to provide quality Education by organizing a two days' workshop to provide a common platform for teacher educators and school teachers, and academicians to understand and share their experiences and deliberate upon the ideas related to the revised curriculum and its transaction to bring forth better professionals and effective Teachers. The main objective of the workshop was capacity building of teacher educators and school teachers and people working in the education discipline.



The programme was coordinated by Dr. Anjali Sharma, Head and Associate Professor, Department of Education. The programme started with inaugural function graced by Prof. D.K. Bhattacharya, Dean, Academic Affair, Prof. A.K. Mukherjee, Dean Research and development, and Prof. Santosh K. Panda, former Chairman of the National Council for Teacher Education, currently Professor at Indira Gandhi National Open University (IGNOU), New Delhi as resource person of the workshop. The programme started with welcome address by Mohammad Asif, Assistant Professor, Department of Education, followed by felicitation of guest by Dr. Anjali Sharma. Inaugural speech was delivered by Prof. D.K. Bhattacharya. The speaker mentioned the necessity of intermediate check of the course content for students' benefit; to ensure the objectives that have been declared at the time of beginning of courses; planning, formation of course content and evaluation; remedial courses of poor students. The speaker also pointed out the importance of new course adoption of UGC; about grading system and how it affects the whole academic procedure and difficulties in evaluation of students performance. After that concept note was



presented by Dr. Anjali Sharma and followed by speech of Prof. A.K. Mukherjee. The speaker mentioned how to promote these kind of training and workshop which are vital importance.

Following that Prof. Santosh K. Panda mentioned in his talk about the importance of teacher educator and the problem faced by teaching and learning. The inaugural function was ended with vote of Thanks by Dr. Nil Ratan Roy, Associate Professor, Department of Education.

First session of the workshop started with brief introduction of the participants. The speaker delivered his talk on “Education as Academic vs Professional field”. The second session was discussion session. In the post lunch session, the speaker delivered his talk on “E-Learning and E-Resources”. In the last session of day one the speaker talked on “A school demand practicum/practical in B.Ed/M.Ed. curriculum: How to deal with that”.

In the second day of the programme first session was on “Constructivist Approach in the Classroom Teaching: Instructional Design” and the second session was activity session. Session three was on “Dimensions in Open and Distance Learning” and session four was discussion session followed. In the post lunch session, the speaker delivered his talk on “New ways adopted for Quality Control and Accreditation/Discussion”. Last session of the programme was valedictory which was graced by Prof. Madan M. Sarma, Department of English and Foreign Languages. He mentioned important aspect of teacher and teacher educators. He also pointed out the scenario of teacher educator of Assam along with important quality of teacher and student. The speaker was happy to mention that this kind of programme will be eye opener for all participants. Certificates were distributed by the guest.





The programme was ended with vote of thanks by Rajinder Singh, Assistant Professor, Department of Education.

10.5 Refresher Course in Cultural Studies (interdisciplinary)

Teaching Learning Centre (TLC) jointly with Department of Cultural Studies, Tezpur University organized a 21-day Refresher Course (RC) in Cultural Studies (interdisciplinary) from 2-22 January, 2017. On 2nd January, a short but meaningful inaugural ceremony was organized where Prof. Amarjyoti Chaudhury, former PVC of Tezpur University, an educationist as well an accomplished litterateur and cultural activist attended as Chief Guest. He delivered an inspiring thought provoking address delineating the purpose of such refresher course and the duties of a teacher. The Vice Chancellor of Tezpur University Prof. M. K. Chaudhuri inaugurated the programme delivering a short but inspiring speech. Prof. D. P. Nath, Head, Department of Cultural Studies gave the welcome address and Prof. P. K. Das, Dean, School of Humanities & Social Science and Director, TLC spoke a few words on the occasion. Prof. S. K. Dutta, Coordinator, offered the customary vote-of thanks.

The regular classes were started immediately after the inaugural session. Every day two classes were held before lunch and two classes held after lunch including library work and presentation from the participants. The detail of the session of the programme has given in each day.

Day 1 (02/01/2017): Prof. Amarjyoti Chaudhury, Former VC, GU & Former PVC, TU delivered his speech on “Intersection of Science and humanities: Towards a new paradigm of knowledge”. In the next session Prof. P. K. Das, Dean, Humanities and Social Sciences, TU gave his speech on “History of Print Media in Assam”. In the last session, Prof. D. P. Nath, Department of Cultural Studies, TU delivered on “Cultural Studies in India”.

Day 2 (03/01/2017): Dr. Bhuban Baruah, Principal, Tezpur Law College spoke on Human Rights. Prof. Nani Gopal Mahanta, Department of Political Science, Gauhati University gave his valuable speech on “Ethnic Politics” and “Autonomy and Conflict and Peace Resolution”. In another session Prof. Abani Bhagabati, Department of Geography, Tezpur University talked on “Human Geography”.

Day 3 (4/1/2017): Prof. Akhil Ranjan Dutta, Department of Political Science, Gauhati University delivered his talk on “Society at globalization” and “Human Security in North East India”. Dr. Apurba Das, Department of Environmental Science, Tezpur University discussed on “Socio environmental issues”.

Day 4 (5/1/2017): Prof. Apurba Baruah, Retd. Professor, North-Eastern Hill University, Shillong delivered his speech on “Middle Class Hegemony”. Prof. Archana Sarma, Department of Economics, Gauhati University discussed on “Feminism”.

Day 5 (6/1/2017): Prof. Mrinmoy Sarma, Department of Business Administration, Tezpur University delivered on “Research Methodology”.

Day 6 (7/1/2017): Prof. Mrinmoy Sarma, Dept. of Business Administration, Tezpur University has taken a session on SPSS, how to use SPSS in different areas of social sciences. In the next session of the day Prof. Bolin Kr Konwar, Department of MBBT, Tezpur University discussed on “Higher education and North East India” and various aspects of “Research Ethics” was discussed by Prof. Ramesh Deka, Department of Chemical Sciences, Tezpur University.

Day 8 (9/1/2017): First session has taken by Prof. Ramesh Deka, Department of Chemical Sciences, Tezpur University on “Scientific Temper”. Prof. Shyamanta Moni Hazarika, Department of Computer Science and Engineering, Tezpur University delivered his speech on “Grading System”. In another session Prof. Prasenjit Biswas, North-Eastern Hill University, Shillong discussed on “Philosophy and Culture and Ethnic World view”.

Day 9 (10/1/2017): Prof. Ramesh Borpatra Gohaim, Dean, School of Law, Gauhati University delivered his speech on “Indian Constitution and Legal, Awareness” and “Human Rights” in two different sessions.

Day 10 (11/1/2017): Prof. Robin Dutta, Department of Chemical science, Tezpur University share his opinion on “Preparation of manuscript and its conservation”. In the last two sessions of the day Dr. Nani Bath, Rajib Gandhi University, Arunachal Pradesh shared his views on “North East Politics” and “Refugee issue in Arunachal Pradesh”.

Day 11 (12/1/2017): Dr. Rajib Handique, Department of History, Gauhati University delivered his talk on “Environmental History”. In an another session Prof. K. C. Boral, Pro-VC, EFLU, Hyderabad delivered his speech on “Ethnic/ Tribal Literature”.

Day 12 (13/1/2017): On day twelve Prof. K. C. Boral share his views on “Cultural memory”.

Day 13 (14/1/2017): Arupjyoti Saikia, Department of Humanities and Social sciences, from Indian Institute Technology, Guwahati delivered a talk on “Environment and Culture”. In an another session Prof. Utpal Sarma, Department of Computer Science and Engineering, Tezpur University discussed on “UNICODE”. Last session of the day has given as Library work for the participants.

Day 15 (16/1/2017): Prof. S. S. Sarkar, Department of Business Administration, Tezpur University delivered his speech in two sessions, one session on “GST” and another one on “Demonetization”. In the last session of the day Prof. Pradip Jyoti Mahanta, Department of

Cultural Studies, Tezpur University shared his ideas and opinion on “Interdisciplinarity in Sankara Dev Studies”.

Day 16 (17/1/2017): Prof. K. P. Sarma, Department of Environmental Science, Tezpur University delivered a speech on “Environment and Pollution”.

Day 17 (18/1/2017): In the first two sessions Prof. Sucheta Chaudhury, Dean, School of Cultural Studies, Jharkhand University discussed on “Feminist Methodology” and “Indigenous Cultural Studies”. In the last two sessions of the day participants presented their group presentation.

Day 18 (19/1/2017): Prof. Mihir Bhattacharjee, Retired Professor of Film Studies, Jadavpur University, Kolkata delivered his speech on “Cultural Studies -An Introduction”. Post-lunch sessions have given for participant’s presentation.

Day 19 (20/1/2017): In the first session Prof. Mihir Bhattacharjee discussed on “Caste, Class, Nation” and in another session he shared his opinion and experiences on “Politics of censorship”. Dr. Anjali Doimary, Department of English, Gauhati University delivered her speech on “Cultural Theory” in two sessions.

Day 20 (21/1/2017): In the first two sessions Prof. Asha Kothari, Department of English, Gauhati University shared and discussed her experience on “Gender Studies”. In another session Prof. P. Ganguli, IPR Chair Professor, Tezpur University delivered his speech on “IPR”.

Day 21: On the last day, i.e. 22nd January, a short valedictory function was arranged where the certificates were distributed.

It is to be mentioned here that experts were drawn from disciplines of Humanities and Social Sciences, Sciences, Engineering, Law, Psychology and even from Army so that the participants were exposed to a varied type disciplines as the theme of the refresher course was interdisciplinary in nature. Towards the end of the course, a few periods were dedicated for presentation by the participants on a topic chosen by themselves. The presentations were group presentation consisting of three participants and as such there were six groups. A Professor was there to oversee the presentations and he evaluated their presentation. Depending on his evaluation and the participants' overall performance during the entire course, grades were awarded to the participants according to the UGC norms. A short field trip was arranged in and around Tezpur under the guidance of the Assistant Coordinator to give the participants hands-on experience on matters related to social sciences. During the course, such topics for the lectures were selected so that the mandatory topics designed by the UGC for such RC were covered.

There was provision for taking feedback on the performance of the resource persons and the feedbacks were quite encouraging from which it was understood the participants enjoyed the

classes. All the resource persons made their classes interactive; the participants not only put questions but involved in placing their own thoughts and analysis on the topic discussed. A total of 18 (Eighteen) participants from various disciplines namely Sociology, English, History, Education, Cultural Studies, Political Science and Commerce attended the RC. Among them, five were from Tezpur University, four from Dibrugarh University, six from Arunachal University, one each from Assam Women University, Jorhat and KBVS & AS University, Nalbari, and one from Gauhati University.





10.6 STEM Workshops on Research-Based Pedagogical Tools

The Centre of Excellence in Science and Mathematics Education (COESME) at IISER Pune, jointly with Newton Bhabha Fund of the British Council is organizing a pan-India series of three-day pedagogy workshops for undergraduate science teachers at various levels.

One of such Level 1 workshop conducted by Teaching Learning Centre, Tezpur University, jointly with COESME at IISER Pune during January 27 – 31, 2017.

The aim of the workshops was to introduce and train participants to use a new pedagogical technique - Research-Based Pedagogical Tools (RBPTs) - which can be used for science teaching at the undergraduate level. This method focuses on understanding the process and concepts of science, rather than memorizing facts. Through these workshops teachers would be trained to use (RBPTs) in their regular classrooms, in order to improve critical thinking and research skills among students. The workshops will encourage teachers to explore alternative methods of pedagogy and make undergraduate science education more learner-centric. Teachers would also be given information on various government schemes (e.g., DBT-Star / DST-FIST) that they can utilise for their college and their own professional development. The workshops also aimed to create opportunities for participants to interact with education experts from India and Britain, and with peers from other colleges.

Trainers:

A team of 5 experts from Sheffield Hallam University, UK provided training on all three days. The team consisted of two trainers from Biology and one each from Physics, Chemistry and Mathematics respectively. The Sheffield Hallam University is well known for providing solutions to improve the quality of STEM Education. It conducts several activities including running national and international STEM Education programmes; initial teacher education

courses; courses for Continuous Professional Development of STEM teachers; curriculum projects; public engagement in STEM activities; and research. Problem-based teaching and learning to engage students in developing ideas, deep understanding and skill development to solve real world problems through scientific inquiry is another area of the University's work. Detailed profiles of experts are attached.

Selection:

Applications were invited from college Science teachers through advertisements on the IISER Pune, British Council websites and also the websites of the host University. Undergraduate/postgraduate science teachers in government or government-aided colleges/universities in any part of India with a masters' degree in any branch of science with 10 years of teaching experience or PhD in any branch of science with 5 years of teaching experience were considered. Highly motivated/exceptional candidates with lesser experience were considered if seats remained. The applicants were required to submit a statement of purpose (SoP) about why they wished to enroll in the workshop. Participants were screened by a joint committee consisting of representatives of IISER Pune and Newton Bhabha Fund and the local organizers.

Participants:

A total of 76 participants from all over the country, representing various organisations participated in the workshops. About 37 participants were from various branches of the Life Sciences, while others were from Physics (9), Chemistry (1469), Mathematics (12) and earth Science (4).

Pre workshop tasks:

As preparation for the workshop, participants were asked to fill a pre-workshop survey to assess their current level of understanding of inquiry-based pedagogy and their needs. They were also given some pre-workshop reading materials and were asked to prepare a poster in teams of two on their understanding of Research Based Pedagogical Tools (RBPT), before coming for the workshop.

Workshop:

The workshop was conducted over three and a half days from 9.00 am to 5.30 pm. It consisted of common sessions on general aspects of RBPTs as well as discipline specific sessions. The sessions were designed to train participants in designing and deploying RBPTs and also to develop strategies to assess the learning outcomes amongst students. They employed a combination of theory and activity based methods to explain various principles of RBPTs.

On the First day, a formal inaugural session, consisting of remarks by representatives of IISER Pune, British Council and the host Institute regarding the nature of the workshops was conducted. This was followed by a keynote talk introducing RBPTs and their need in science education by Mr Gareth Price, from the Sheffield Hallam University. Dr Suman Govil, Scientific Officer in the Department of Biotechnology addressed the participants of the first workshop of this series, in IISER Mohali.

Day One was spent on various activities that explained the ground principles of Research Based Pedagogical Tools through activities such as "the ideal student" and "the ideal teacher" and the characteristics of a good RBPT. These activities were implemented in mixed groups consisting of delegates from various disciplines and locations.

Day 2 had more discipline-specific sessions. Characteristics of RBPTs were drawn out and sample RBPTs were analysed in subject-wise break-out groups. The day saw the participants starting to develop RBPTs relevant for their classrooms in groups of five. This display grew over the course of the day with the guidance of the experts. The posters made by participants were put up for display and participants received feedback from their peers and the experts.

Day 3 was devoted to participants finalising their RBPTs based on the review feedback and learning from the first two days, followed by an exhibition displaying the finished resources. Collaborative groups of participants from the same regions were also created to ensure continuity in the efforts. In the concluding session, potential impediments in implementing RBPTs in the class and ways to overcome these were discussed. Points like large number of students in classrooms, limited time for covering wide ranging syllabi, additional duties assigned to teachers, came up in the discourse.

Each of the workshops also had additional talks by Prof. L.S. Shashidhara, who heads the Centre of Excellence in Science and Mathematics Education, (COESME, IISER Pune), on leadership and funding opportunities for teachers. There was also an information session by Dr Apurva Barve, Centre Coordinator (COESME) explaining the larger vision of the RBPT workshops.

The British Council was represented by Ms. Mousumi Mondal and Ms. Manjula Rao.

All participants who successfully completed the workshops were given certificates. The workshops were well received and participants responded enthusiastically in preparing RBPT posters, many of whom expressed interest in attending the Level two workshops.

Facilities:

Boarding and lodging were provided free of cost to the participants, on campus of the host institute. Travel Allowance, as per actuals, was also paid to participants.

Follow Up for Participants:

All resource materials, including the presentations and handouts, which contained sample RBPTs were shared with the participants. The list of participants of the workshop with contact details was also shared with the intention of enabling the participants to share their RBPTs as well as to get support from their peer group while implementing RBPTs in the class room. Participants are also encouraged to keep in touch with COESME at IISER Pune to share their reflections regarding using RBPTs in the class room. A database of RBPTs created through the workshops is also being planned, in order to provide participants with a larger pool of ready RBPTs to choose from for use in the classroom.

Project evaluation and course correction

At the end of each workshop, a session wise review of the workshop was conducted jointly by the trainers, representatives of the Newton-Bhabha program and COESME, IISER Pune. The effectiveness of various activities, was evaluated, lacunae were identified and the appropriate course corrections were implemented during the next workshop of the series. For example, an activity to model the flight of the pteranodon, a type of flying dinosaur, was added after it was observed that elements of scientific enquiry, and investigative projects needed to be added to the workshop curriculum. Written feedback received from participants was also considered.

Level 2 Workshop

The level 2 workshop aimed to build on the principles of RBPTs already laid down in the Level 1 workshop. It was also designed to provide the participants with the skills necessary to become trainers for the regional workshops planned across the country.



Selection was based on criteria such as participants' understanding of the concept of RBPTs; the willingness to act as trainers for regional workshops and in their respective colleges; recommendations of the trainers from Sheffield Hallam University; leadership and communication skills. 45 participants from all over India covering all 4 core subjects of physics, chemistry, mathematics and biology participated in the workshop.



Group Photo (bottom) and sessions at Level 1 workshop in Tezpur

Overview of Sheffield Hallam University

Sheffield Hallam University has been established for more than 30 years ago. The University has an outstanding track record in providing solutions to improve the quality of science and STEM Education. Its work includes running national and international STEM Education programmes; initial teacher education courses; the continuous professional Development of STEM teachers, curriculum projects; public engagement in STEM activities; and research. University runs large innovative national STEM Education projects in the UK that have included the development of research-based teaching units at all levels, including Problem Solving with, Pupil Researcher Initiative etc. They also conduct workshops to build capacity of teachers and educators to enable them to write teaching resources effectively and put that in practice. Problem-based teaching and learning to engage students in developing ideas, deep understanding and skill to solve real world problems through scientific inquiry and problem solving processes is the another area of University's work.

Subject Expert	Profile
 Gareth Price	Gareth is a Senior Lecturer and Publisher at the Centre for Science Education (CSE) in Sheffield Hallam University where he conducts research and develops teaching and learning materials with a particular focus on inquiry. He is currently engaged in completing a PhD looking at the place of creativity in science, has published papers on the nature of inquiry and presented on this topic at conferences both in the UK and internationally. Gareth has been involved as a writer, editor, CPD provider, writing workshop lead and publisher on the following research and inquiry-based learning projects carried out by the CSE: How Science Works; STEM Subject choice and Careers; Inquiry Based Science Education (IBSE) Brunei; and Inspiring Science (Thailand). Gareth led the EU Make the Link project in which CSE was a partner. This project looked at the links between STEM and global development.
 Julie Jordan	Julie is Professional Development Lead and Principal Lecturer in Science Education at Sheffield Hallam University. She supports the academic and strategic business planning for the Centre for Science Education and the development of related professional learning programmes. In addition, Julie leads the Sheffield Institute of Education's (SIOE) Special Interest Group in Science Education Research and is a professional development consultant and advisor for a number of national organizations. In relation to research and knowledge exchange, Julie has expertise in the design of research based models of professional development, including the use of Japanese Lesson Study in English Schools and Higher Education, the design of professional learning frameworks to implement Inquiry Based Science Education approaches, building capacity in professional development leadership, education project design, development and evaluation.



John Walker

John Walker has over twenty five years of experience in science education, as a teacher, senior leader in school, trainer and consultant. He currently co-leads Sheffield Hallam University's science provision for Teach First, one of the top ten graduate recruiters in the UK. John also runs a training and consultancy business through which he works with a wide range of educational organisations in the UK and abroad. Before joining Sheffield Hallam University John spent several years as a Professional Development Leader at the UK's National Science Learning Centre, based at the University of York. John's areas of expertise are principally in the teaching of chemistry, educational leadership and management, practical work in science, and the use of digital technology to support teaching and learning. He is a fellow of the Royal Society of John is also a Chartered Science Teacher and co-editor of Croner's Manual for Heads of Science.



Diana Bracewell

Diana has been a Physics teacher for 13 years and is a Master's graduate in Teaching and Learning. She is driven by a love of learning, and the desire to pass the joy it brings, on to others. Her work in schools and her research with the Science Learning Centres and Huddersfield University, have given her a deep understanding and extensive knowledge of current practice and pedagogy. She has delivered continuing professional development (CPD) on: diversity/anti-oppression, wellbeing, mediation, restorative justice, teaching Gifted and Talented learners, engaging girls in STEM subjects, social media for learning, BYOD (Bring Your Own Device) for learning, Inquiry-based Learning, and HOTs (Higher Order Thinking skills).



Christopher Olley

Chris Olley has a first degree in Pure Mathematics from Warwick and master's degree from Institute of Education in mathematics education. He was a teacher of mathematics in various non-selective state comprehensive schools including Holland Park School as second in department and Deptford Green School as head of the mathematics department. Chris PGCE course director (post graduate certificate in education) in secondary mathematics teaching for Goldsmiths, University of London and until last year at King's College London for 12 years. He has wide ranging overseas experience, teaching in Tanzania for two years, teacher training in Uganda, teacher development in Nigeria, South Africa, curriculum development in Kenya, etc. He is currently working on curriculum development projects in Ghana, teacher development in India and the UK and directing a London wide schools tournament in problem and puzzle solving in mathematics. Chris is co-author Text Book of series for Ugandan secondary schools now in its 4th Edition (2012). Before taking up his post at Sheffield Hallam University Gareth worked for Collins Educational Publishers as Publishing Manager for e-Publishing (2000 - July 2003), Commissioning and developing electronic titles, working with other subject-specific publishers as appropriate, across the curriculum; Publishing Manager for Science Maths and Technology (1998 – 2000); Commissioning Editor for Science (1993 – 1998); Project Leader for Science (1989 – 1992).

11. Tentative Program Schedule for the year 2017-18

Sl. No.	Program	Duration
1.	Workshop on Research Methodology	Weeklong
2.	Induction Training of Faculty-I	Month long
3.	Outreach program in Colleges of Assam	3 days in each colleges
4.	Faculty Development Program-Department of Energy	Weeklong
5.	Workshop on Development of self-learning materials for Open and Distance Learning System (In collaboration with the CODL, Tezpur University)	2 days
6.	E-content Development	Continuing