



A REPORT ON

TEACHING METHODOLOGY AND TECHNICAL WRITING

Week-long Workshop held from January 28-February 3, 2019

Organized by

Department of Environmental Science

In collaboration with

Teaching Learning Centre (TLC)

Tezpur University

Sponsored by

Ministry of Human Resource Development, Government of India

Day 1: 28/01/2019 (Monday)

Resource Person: Prof. Nityananda Sarkar, Economic Research Unit, Social Sciences, ISI, Kolkata



The session started with a lecture by Prof. N. Sarkar, on **Statistics and its major objectives**. His lecture included data types, sample survey, sampling design, data analysis and regression theory using statistical methods. He covered the importance of sample survey and discussed the most commonly used sampling design namely

SRSWR/ SRSWOR and stratified sampling as well as data analysis using graphical representation and descriptive statistics (mean, median, variance, skewness, kurtosis etc.)

There was a hands-on training on **data analysis** in the afternoon session, well explained by Dr. Kushal Banik Chowdhury (ISI- Northeast Centre). This was conducted in the Computer Centre, Tezpur University and included practical analysis of descriptive statistics, histograms, correlation, regression and time series variables in Microsoft Excel.



Day 2: 29/01/2019 (Tuesday)

Resource persons: Dr. P. Buragohain, Assistant Professor, Dept of Education, Dibrugarh University

Dr. Gaurangi Maitra, Scientist-I, DBT Nodal Cell, Tezpur University



Dr. P. Buragohain

Dr. P. Buragohain delivered a lecture on **‘Positive Education: A New Pedagogy for Classroom Teaching and Creative Learning’**. In his lecture, he discussed on different theories and elements of positive education and explained how it can be molded into the students to help them handle their stressful academic life in a positive way. He discussed about five main elements of positive education- positive emotions, engagement, meaning of life, relationships and accomplishment. According to him, positive emotions are measurable, manageable and can be handled precisely. This lecture served more as a counselling session for the participants who benefitted much.

Dr. G. Maitra delivered a lecture on writing, communicating and editing. She highlighted the usefulness of writing in our everyday life as well as for our academic life and discussed some basic guidelines for effective writing and editing. Her presentation had interesting illustrations and videos that helped the participants to get a clear idea of why communicating our work is important in academic life. She explained how effective writing can help to communicate our work and get recognized as **“Our own Best Brand Ambassador”**.



Dr. Gaurangi Maitra

Day 3: 30/01/2019 (Wednesday)

Resource Persons

Prof. D.K Bhattacharya, Dean, Academic Affairs, Dept. of Computer Science & Engineering, Tezpur University

Dr. B.K Sarmah, Assistant Professor, Dept. of Mathematical Sciences, Tezpur University



In the morning session, Prof. D.K Bhattacharyya delivered a lecture on ‘**Plagiarism**’, which is relevant to research and technical writings. His lecture covered tools, techniques and importance of plagiarism in current research publications and emphasized on various detecting tools of plagiarism and their application. Such plagiarism detection tools are very essential for the current researchers to show their sincerity and hard work. This lecture was very useful for all.

The next lecture was regarding a tool called “**LaTeX**” presented by Dr. B.K. Sarmah. In his lecture, he introduced various tool of LaTeX and described about the basic nature as well as requirements of the tool. He also added the advantage of using “LaTeX” over word document. He guided the participants regarding the necessary commands required to use LaTeX. The practical session for LaTeX was held at Computer Centre of Tezpur University. The session included a series of hands-on ‘LaTeX’ tools taught in the previous sessions. It was an engrossing session as all the participants were totally involved in the work.



Day 4: 31/01/2019 (Thursday)

Resource persons

Prof. M.M. Sarma, Dept. of English & Foreign Languages, Tezpur University

**Prof. K.P. Sarma, Prof. A.K. Das, Prof. R.R. Hoque
Dept. of Environmental Science, Tezpur University**



The morning session started with a lecture delivered by Prof. M.M. Sarma on **'Academic and Technical Writing'**. His lecture included features and qualities of academic writing, writing process, structure of a paper/article, grammatical aspects of writing as well as essential verbs used in academic writing.



Prof. A.K. Das delivered a lecture on **'Perspective on Question Paper'**. His lecture was based on his thoughts and personal experience on setting question papers for university students. He emphasized on how the questions should clearly mention keywords to enable the students to answer exactly what is being asked using appropriate terms and jargons. The session turned out to be relevant for

the participants who were active in teaching in colleges and universities.

Prof. R.R. Hoque presented a lecture on '**Structure of Scientific and Technical Communication**'. He discussed about the types of scientific communication and format in which a paper should be submitted. He explained how adhering to an accepted format of writing a research paper has advantages and what content a paper should have.



Prof. R.R. Hoque

Prof. K P Sarma presented a lecture on '**The Teaching-Research Nexus**' and discussed the role of teachers in education. He explained how a teacher could enhance his/her teaching by citing examples from their own research and experiences. It was a fruitful session.



Prof. K.P. Sarma

Day 5: 01/02/2019 (Friday)

Resource persons

Prof. V.S. Moholkar, Dept. of Chemical Engineering & Centre for Energy, IIT-G

Prof. G. Bez, Dept. of Chemistry, NEHU, Shillong



The first session was addressed by Prof. V.S. Moholkar on **‘Technical Writing of An Experimental or Simulations Research Paper’** and **‘A Few Tips for Research Proposal Writing’**, which includes teaching-learning process, aims and objectives of teaching-learning, objectives of Cognitive Domain etc.

During the second session, Prof. G. Bez presented a lecture on **‘Bridging the gap between available resources and objectives: the challenges in project formulation’**. He discussed the major division of a research proposal and how each division should be addressed. He also described about the common obstacles faced during project formulation as well as the common reasons that could lead to the rejection of a project. He emphasized that persuasive writing and thorough understanding of the topic is necessary for writing a project proposal. The session was well appreciated by the participants. It was relevant and helpful for their current academic status.



Day 6: 02/02/2019 (Saturday)

Resource persons

Prof. Mukut Hazarika, Dept. of Education, Dibrugarh University

Dr. Sadhan Mahapatra, Associate Professor, Dept. of Energy, Tezpur University



Prof. M. Hazarika delivered a lecture on the **Teaching – Learning Process**. His lecture covered the aims and objectives of teaching and discussed the taxonomy of educational objectives. His lecture also included the concepts and process involved in **‘Pedagogy’- The Arts and Science of Teaching at high secondary level** and

‘Andragogy’- The Art and Science of Educating an Adult. His lecture was very enlightening.



Dr. S. Mahapatra addressed the next session. His lecture on **‘Classroom Management’** was based on his personal experience in managing a classroom. He introduced various techniques for effective classroom management and discussed qualities of an effective and an in-effective teacher. He emphasized that the best classroom management can be achieved when

the students cooperate. The session was quite relevant to the participants as most of them were actively involved in teaching in colleges and universities. This lecture mainly focused on the management of a classroom with large number of students.

Valedictory Session

The valedictory session marked the successful conclusion of the weeklong programme. Dr. Biren Das, Registrar and Prof. Ramesh Chandra Deka, Dean, School of Sciences, Tezpur University along with Dr. Ashalata Devi (Head), Prof. A.K. Das, Prof. R.R. Hoque, from the Department of Environmental Science, Tezpur University graced the occasion.



The Invited Guests and Organizers

The Valedictory Session comprised of felicitation of guests, followed by brief speeches by the guests, participants and organizers. The workshop came to an end with the distribution of certificates, group photographs as well as pen drives to the participants and a vote of thanks.

The participants gave warm feedback and acknowledged the efforts of the organizers, resource persons and the institute for organizing such a beneficial and informative workshop. Everyone had gained an enriching learning experience that would be forever cherished.



Participants and Organizers
Teaching Methodology and Technical Writing

A week long workshop on Teaching Methodology and Technical Writing was organized by the Department of Environmental Science in collaboration with Teaching Learning Centre (TLC) of Tezpur University during 28th January- 3rd February, 2019 at Tezpur University Campus, Assam.

The workshop targeted teachers and research scholars from all disciplines of Science, Humanities, Commerce and Management who are actively engaged in teaching and research activities in colleges or universities. A total number of 49 participants, hailing from different states in India namely Assam, Arunachal Pradesh, Meghalaya, NCR, Karnataka and Tamil Nadu were selected for the workshop.

The main aim of the program was to facilitate the participants with specialized teaching and research-centric knowledge through interactive lecture sessions and hands-on training activities from dignified resource persons having expertise in various academic and research areas. The week-long workshop was graced by 13 learned resource persons from varied disciplines and prominent institutes of the country, to share their ideas and personal experiences regarding teaching methodology, lateral thinking in teaching, constructive approach, technical writing, statistical analysis, representation of data, interpretation of results, writing research proposal as well as research paper, plagiarism and many varied subjects.

The workshop also served as a platform for interaction and networking amongst the participants as well as the resource persons. It aimed to provide a good environment to share their thoughts, experiences and exchange perspectives on issues related to various fields of teaching and research.

On the final day of the workshop, Dr. Biren Das, Registrar, Tezpur University delivered the valedictory speech. Certificates and pen drives were awarded to the participants. Prof. Ramesh Chandra Deka, Dean, School of Sciences, Dr. Ashalata Devi (Head), Prof. R. R. Hoque and Prof. A. K. Das from the Department of Environmental Science were present on this occasion.



The participants gave good feedback regarding all aspects of the workshop, from course matter and experts to routine; from food to accommodation and overall management. They acknowledged the efforts of the organizers and the institute for arranging such an encouraging, beneficial and informative workshop.



Few snapshots

