

Tezpur University:

Tezpur University, established in 1994, is a Central University aimed at offering employment-oriented, interdisciplinary courses to address the local, regional, and developmental needs of Assam, with a focus on research in areas relevant to the region and emerging fields in Science and Technology. The campus, located in Napaam, 15 km east of Tezpur city, which is situated on the bank of the mighty river Brahmaputra and the city is known for rich cultural heritage, natural beauty, and historical significance.

The Bioinformatics and Computational Biology Centre:

- The Centre is supported by DBT on a five year project mode that focuses on microbial biodiversity in Assam and Arunachal Pradesh.
- The center objectives are organizing annual workshops conducting training programs and supporting internship.
- Key research areas include microbial biodiversity, molecular evolution, molecular dynamics, and Monte Carlo simulations. The center also conducts quantum chemical calculations, gene expression analysis using machine learning, and DNA structural studies.

Workshop cum Training Programs:

- The workshop and training at the Centre for Bioinformatics and Computational Biology, Tezpur University, will help faculty members, Research Scholars and Students to gain a deeper understanding of Molecular Biology and Computational Biology
- The workshop and training program is open to Faculty members, Research Scholars, M.Sc., Int. M.Sc. students in life sciences, biotechnology, bioinformatics, and computational biology disciplines
- Participants are required to arrange their accommodation by themselves



NATIONAL WORKSHOP CUM TRAINING ON “RECENT TRENDS IN BIOINFORMATICS & COMPUTATIONAL BIOLOGY”

8th November to 12th November, 2024



Organized by:
Centre for Bioinformatics and Computational
Biology,
Tezpur University, Tezpur
Assam-784028
Supported by
DBT, Government of India

Highlights of the workshop (8 – 10 Nov 2024):

- The national workshop on "Recent Trends in Bioinformatics and Computational Biology" will be held on 8th and 9th November.
- Esteemed scientists, including Prof. Santosh K. Kar (Ex. professor, JNU) and Dr. Prabhu B. Patil (IMTECH, Chandigarh) will deliver talks along with other experts.
- Presentations by faculty members who are experts in Bioinformatics and Computational Biology. Research scholars will also have poster and oral presentations.
- All presentations will be published as abstract books which later will be published as a complete book.
- The event offers a valuable platform for networking, collaboration, and advancing research in bioinformatics and computational biology.

Highlights of the Hands on Training (11 – 12 Nov 2024):

- The training program will take place on 11th November and 12th November.
- Theme “Computational Insights into central Dogma of Molecular Biology ”
- Limited to 30 participants.
- Attendees are encouraged to bring their own laptops for a smoother, interactive experience.
- A nominal registration fee of ₹100 will be charged from each participants for training and workshop, which will be used for organizing the event.
- Accommodation should be arranged by participants
- The program will provide a hands on session advanced topics in bioinformatics and computational biology.
- Key focus areas include: DNA strand mutations, Codon usage bias, dN/dS ratios in genomes, AT/GC skew patterns etc.
- These topics are essential for understanding molecular evolution and genome dynamics.

Workshop and Training Schedule

8th November 2024 (Friday)

12.00 pm -03.00 pm	Registration , Lunch and poster session
03.00 pm -03.40 pm	Inauguration of the event with a patriotic song and lightening the lamp
03.40 pm- 04.00 pm	Tea cum discussion
04:00 pm -04:45 pm	By Prof. Santosh K Kar
04:45 pm -05:30 pm	Talk by Dr. Prabhu B. Patil
05:30 pm- 06.00 pm	Discussion
06:00 pm onwards	Cultural evening

9th November 2024 (Saturday)

10:00 am – 10:30 am	Talk by Prof. Ramesh Ch. Deka
10:30 am - 11:00 am	Talk by Prof . D.K. Bhattacharya
11:00 am - 11.15 am	Tea break
11:15 am – 01:30 am	Oral presentations by faculty members
01:30 pm - 02:30 pm	Lunch break
02:30 pm - 05:30 pm	Poster and Oral presentations by Scholars

10th November 2024 (Sunday)

11th November 2024 (Monday)

09:15 am – 10.00 am	Talk by Prof. Santosh k. Kar
10:00 am - 11:00 am	Hands on by Prof. S.S Satapathy
11:00 am - 11:15 am	Tea break
11:15 am - 01:30 pm	Hands on by Prof. S.S Satapathy
01:30 pm - 02:30 pm	Lunch break
02:30 pm - 03:15 pm	Hands on by Prof. S.K Ray
03:15pm - 03:30 pm	Tea break
03:30 pm - 05:30 pm	Hands on by Prof. S.K Ray

12th November(Tuesday)

09:15 am - 10.00 am	Talk by prof. Prof. S. K. Kar
10:00 am– 11:30 am	Hands on Prof. S.S Satapathy
11:30 am -11:45 am	Tea break
11:45 am –0 1:30pm	Hands on by Prof. S.K Ray
01.30 pm - 2.30 pm	Lunch break
03.00 pm - 4.00pm	Feedback and Valedictory Session

Chief Patron Prof. Shambhu Nath Singh, Vice –Chancellor, Tezpur University, Tezpur

Patron: Dr. Rajesh S. Gokhale, Secretary DBT & Chairman

National Advisory Committee:

- Prof Ramesh Chandra Deka, Department of Chemical sciences, Tezpur University, Tezpur
- Prof. Alak Kumar Buragohain, Royal Global University, Guwahati.
- Dr. Ramana Attreya, Indian Institute of Science and Research, Pune.
- Prof. Dhruva Kumar Bhattacharyya, Department of CSE Tezpur University, Tezpur.
- Prof. Santosh K Kar , Silicon Institute of technology
- Dr. Prabhu B. Patil, IMTECH Chandigarh

Local Organizing Committee

- Prof. Sarat Saharia,HoD, Department of CSE, Tezpur University, Tezpur
- Prof. Robin Dutta , Dean, School of Sciences, Tezpur University, Tezpur
- Prof . P. P Sahu, Dean,School of Engineering, Tezpur University, Tezpur
- Dr. Rupak Mukhopadhyay, HoD, Department of MBBT, Tezpur University, Tezpur
- Prof. Pachanan Puzari, HoD, Department of Chemical sciences, Tezpur University, Tezpur
- Prof. Manabendra Mandal, Department of MBBT, Tezpur University, Tezpur
- Dr. Nima D. Namsa, Department of MBBT, Tezpur University, Tezpur.
- Dr. M. V. Satish Kumar, Department of MBBT, Tezpur University, Tezpur.
- Dr. Pankaj Barah, Department of MBBT, Tezpur University, Tezpur.
- Dr. Aditya Kumar, Department of MBBT, Tezpur University, Tezpur
- Dr. Jyoti P. Saikia, Department of MBBT Tezpur University, Tezpur
- Dr. Rosy Sarmah, Department of CSE Tezpur University, Tezpur
- Dr. Debojit Boro, Department of CSE Tezpur University, Tezpur

Convenor: Prof. Suvendra K. Ray((suven@tezu.ernet.in)

Department of MBBT, Tezpur University

Co-convenor: Prof. Siddhartha Sankar Satapathy,(ssankar@tezu.ernet.in)

Department of CSE, Tezpur University,

Registration for workshop & training program

The workshop and training program is open to Faculty members, Research Scholars ,M.Sc., Int. M.Sc. students in life sciences, biotechnology, bioinformatics, and computational biology disciplines Interested participants can register themselves on the link given below (A nominal registration fee of ₹100 will be taken on the arrival of the participants)

https://docs.google.com/forms/d/e/1FAIpQLSeoJr_T0dET6PfqK-0UEYEBzmAPAJCW4sKqRvZy6lIcaoxCFQ/viewform?usp=sf_link

For registration related queries, Contact 7638822354 Or mbp22102@tezu.ac.in