

# Two-weeks Interdisciplinary Refresher Course (Online Mode)

## Applications of AI in Science, Technology, Engineering, Mathematics and Business(STEMB)

Under the aegis of UGC-MMTTC, Assam University, Silchar

Organised by Department of Computer Science and Engineering, Assam University, Silchar  
(18th August 2025- 31st August, 2025)



### Assam University, Silchar

Assam University came into existence in 1994 after enactment of the Assam (Central) University Act 1989. Through its pursuit, Assam University is in the process of making itself an institute of excellence. Assam University main campus is situated at Dargakona, about 20 kms away from Silchar. The campus is set amid sprawling hillocks and typical landscape of north east. The campus is spread over 600 acres and provide an ideal environment for the researchers, students and the people interested in academic excellence. The university has the territorial jurisdiction over the five districts of Assam viz., Cachar, Karimganj, Hailakandi, Dima Hasao (erstwhile North Cachar Hills) and Karbi Anglong.

### Department of Computer Science & Engineering

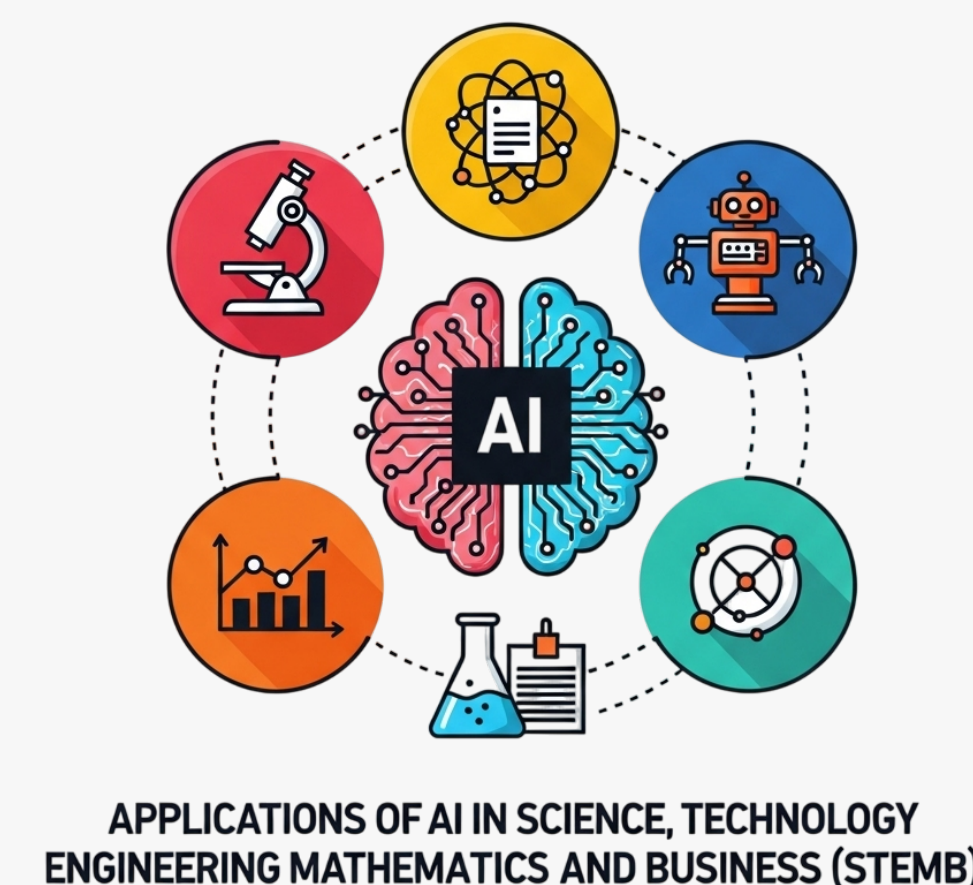
The Department of Computer Science and Engineering, Assam University (formerly Department of Information Technology) is one of the three departments at Triguna Sen School of Technology established in the year 2006. It offers bachelor's programs along with master's and doctoral degree programs in Computer Science and Engineering.

### MMTTC, Assam University

The Malaviya Mission Teacher Training Centre at Assam University, Silchar (MMTTC-AUS), was established in 2023 under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT) Scheme. The aim of the Malaviya Mission Teacher Training Centre (MMTTC) is to equip individuals from various fields with the necessary skills to meet the growing challenges of their professions and to instil pride in their professional roles. The primary objective of The Malaviya Mission Teacher Training Centre at Assam University, Silchar (MMTTC-AUS), is to address the needs of teachers, principals, research scholars, and non-academic staff by enhancing their knowledge and skills through systematic coursework and methodologies.

### About Refresher Course

AI (Artificial Intelligence) is increasingly influencing and transforming STEMB (Science, Technology, Engineering, and Mathematics and Business) education. It offers opportunities for personalized learning, adaptive assessments, and the use of virtual simulations and intelligent tutoring systems. AI is also helping to automate administrative tasks and provide real-time feedback to students, ultimately making STEMB education more effective and accessible. Here's your opportunity to dive deep into the cutting-edge world of AI through an immersive 14-day refresher course tailored to expand your knowledge and practical understanding of AI applications in the STEMB domains.



### Objectives of the Refresher Programme (RP)

1. Enhance Understanding of AI Fundamentals including key concepts, techniques, and terminology relevant to STEMB disciplines.
2. Explore AI Applications in STEMB by Showcasing real-world AI applications in these disciplines
3. Empower Curriculum Development by enabling educators to integrate AI topics and tools into their existing syllabi, creating AI-aware graduates.
4. Promote Interdisciplinary Teaching Approaches
5. Support teachers in fostering AI awareness and critical thinking in students, preparing them for AI-driven futures in various careers.
6. Stimulate interest in AI-driven interdisciplinary research and innovation
7. Address Ethical and Societal Implications of AI
8. Inspire educators to become advocates and leaders in promoting AI educational Institutions.

### Course Highlights

- › Understand Core AI Concepts through real-world STEMB case studies
- › Expert-led sessions by leading academicians and industry professionals
- › Explore how AI is transforming:
  - › Scientific research and discovery
  - › Smart technologies and automation
  - › Algorithm Design and optimization
  - › Mathematical modeling and forecasting
  - › Business intelligence and strategy

### Programme Committee

1. **Chief Patron**  
Prof. Rajive Mohan Pant, Honble' Vice Chancellor, Assam University Silchar
2. **Patrons**  
Prof. R. Balakrishnan, Director, UGC- MMTTC, AUS  
Prof. Debaprasad Das, Dean, TSSOT, AUS
3. **Coordinator**  
Prof. Ajay. Kr. Singh, Dy. Director, UGC- MMTTC, AUS
4. **Program Chair**  
Prof. Sudipta Roy, Deptt. of CSE, AUS
5. **Program Coordinator**  
Dr. Tapodhir Acharjee, Deptt. of CSE, AUS
6. **Program Co-Coordinator**  
Dr. Sourish Dhar, Deptt. of CSE, AUS

### Who can attend ?

Faculty members involved in higher education at universities, colleges, or academic institutions recognized by UGC/AICTE/Ministry of Education, Government of India, are eligible to participate in this course. Although the course adopts an interdisciplinary approach, it is particularly beneficial for faculty from the fields of Science, Technology, Engineering, Mathematics, and Business. The program will be held online from 18th to 31st, August, 2025 with no registration fee required.

**Eligibility:** *Participants who have already completed a Faculty Induction Programme (FIP) or an Orientation Programme of at least 24 days are eligible for this online Refresher Course.*

### Expected Outcomes

- › Participants will gain a strong conceptual and practical understanding of AI relevant to their fields which will enhance AI literacy.
- › Teachers will be able to integrate AI modules or examples into their subject teaching effectively.
- › Participants will identify new research areas and methodologies using AI tools within their discipline.
- › Enhancement of interdisciplinary networks among faculty to explore AI-focused programmes.
- › Educators will develop a framework to teach students about ethical considerations in AI usage.



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## How to register ?

### Step 1: Visit

<https://mmc.ugc.ac.in/registration/Index> and navigate to the "New Registration".

**Step 2:** Complete the registration process, after which you'll receive your user ID and password via email from MMTTC. Once received, use these credentials to log in.

**Step 3:** After logging in, you'll be prompted to create a new password.

**Step 4:** Once this step is completed, log in again and proceed .

## QR Code Registration



## How to apply after registration ?

### Step 1:

After Log In

#### 1<sup>st</sup> step

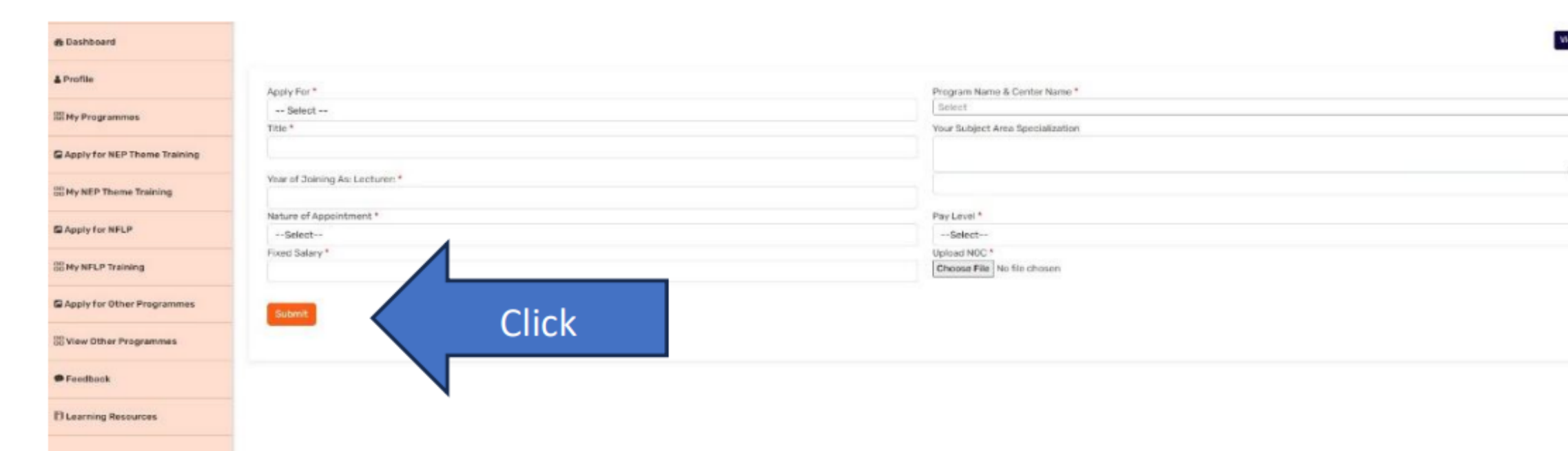


### Step 2:

#### 2<sup>nd</sup> step

Apply for "Refresher Course" and select the programme name and centre name "Assam University, Silchar" **18-08-2025 to 31-08-2025** "

Upload NOC/ Nomination letter and complete the registration process.



## Important

1. Registration is mandatory for participation.
2. As part of the Ministry of Education's requirement under the UGC-MMTTC scheme, all participants need to submit online feedback for each session.
3. Attempting and submitting all the quizzes and assignments are mandatory, and each participant should score a minimum of 50% in total to avail the programme completion certificate.
4. Graded e-certificates on the basis of performance will be awarded to the participants.
5. No Objection Certificate (NOC) or Nomination Letter **IS REQUIRED** to participate in the Programme.
6. Failing to meet any of the above conditions will result in the denial of completion certificate.