

## ABOUT THE INSTITUTION

Mar Baselios College of Engineering and Technology (MBCET), Thiruvananthapuram, Kerala was established in the year 2002 by the Major Archdiocese of Trivandrum with the noble objective of providing quality technical and skill education based on fundamental human values. MBCET offers seven Undergraduate programmes and eight Postgraduate programmes in Engineering. The institution is an approved research centre of APJ Abdul Kalam Technological University. Five B.Tech programmes are accredited by NBA and the institution is also accredited by the NAAC with A grade (CGPA 3.13) since 2016. The institution was conferred with the "Autonomous" status by the University Grant Commission (UGC) in the year 2020.

## DEPARTMENT OF CIVIL ENGINEERING

The Civil Engineering branch was started in Mar Baselios College of Engineering and Technology in 2005. The Department with well-experienced faculty, skilled technical staff, and well-equipped laboratories offers B.Tech, M.Tech (Structural Engineering and Transportation Engineering and Environmental Science and Engineering) and PhD programmes. The strong and dedicated group of faculty takes up sponsored research projects and consultancy activities in various streams of Civil Engineering. The Civil Engineering Students Association (CESA) regularly organizes technical sessions and other activities along with the student chapters of IPA, IGS, and ASCE.

## VISION

To be a Centre of Excellence in Civil Engineering education with a global perspective, creating ethically strong engineers for the service of society

## MISSION

To provide Engineering Education which can create exemplary professional Civil Engineers of high ethics with strong conceptual foundation coupled with practical insight, to serve the industry and community.

## ABOUT THE PROGRAMME

The goal of this Faculty Development Programme (FDP) is to empower faculty members with the necessary knowledge and practical skills to effectively utilize Artificial Intelligence (AI) in modern research. By incorporating hands-on training and in-depth discussions, the FDP aims to achieve the following objectives:

- 1. Explore the Role of AI in Research:** Understanding how AI enhances the research process from ideation to execution.
- 2. Strengthen Research Methodology:** Offer insights into how to refine research methodologies, enhancing the quality and depth of academic studies.
- 3. Promote Research Ethics and Integrity:** Discuss the ethical considerations in AI-based research, ensuring that faculty members understand the implications of AI applications in the context of academic integrity, data privacy, and fairness.
- 4. Hands-on Sessions on AI Tools:** Provide hands-on training to effectively utilise AI tools for literature surveys, research data collection, and analysis.
- 5. Literature Survey Using AI:** Teach participants how AI can streamline and improve literature reviews.
- 6. Research Data Collection & Analysis:** Demonstrate AI methods for more accurate and efficient data management.
- 7. Enhance Thesis Writing and Research Paper Quality:** Provide strategies for using AI tools to assist in writing high-quality research papers and theses, ensuring clarity, coherence, and academic rigor.
- 8. Selection of Appropriate Journals:** Guide participants on selecting the right journals for their research papers, using AI tools to match research topics with suitable publications.
- 9. Use of Reference Managers:** Provide practical sessions on using reference management tools and AI for efficiently organizing citations, managing references, and streamlining the writing process.

## SIX DAYS FACULTY DEVELOPMENT PROGRAMME ON

# AI Applications in Modern Research: A Hands-on Approach

**17-22 February, 2025**

**Department of Civil Engineering**



**MAR BASELIOS**  
COLLEGE OF ENGINEERING AND TECHNOLOGY  
**AUTONOMOUS**

Mar Ivanios Vidyannagar, Nalanchira,  
Thiruvananthapuram - 695015, Kerala, India  
Ph: 0471 2545868

## EXPECTED OUTCOMES

By the end of this programme, participants will be equipped to integrate AI into their own research practices, enhancing the effectiveness, efficiency, and innovation of their work. The programme will help faculty members stay at the forefront of AI-based research methodologies, ensuring that they are well-prepared to guide the next generation of researchers.

- Enhanced Research Capabilities with AI: Faculty will understand and apply AI tools like ChatGPT in literature surveys, data collection, analysis, experimental design, and thesis writing, improving research efficiency and quality.
- Strengthened Research Methodologies and Ethics: Participants will integrate AI in research methodologies while ensuring ethical standards and data integrity, and will be better equipped to secure funding for AI-driven projects.
- Improved Research Output and Dissemination: Faculty will learn strategies for writing high-quality papers, selecting journals, and presenting work effectively, with training in reference management, patent filing, and enhancing research visibility.

## COORDINATORS

- **Dr. Jisha SV**, Associate Professor, MBCET  
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## RESOURCE PERSONS



### Prof. K.P. Sudheer

Ex Officio Principal Secretary S&T  
Department &  
Executive Vice President KSCSTE



### Dr. Achuthsankar S. Nair

Former Professor and Head of  
Dept. of Bioinformatics  
University of Kerala



### Dr. Lakshman Nandagiri

Professor  
Department of Water Resources  
and Ocean Engineering  
NIT Surathkal



### Dr. Binuja Thomas

Principal Scientist, KSCSTE &  
Nodal Officer  
Intellectual Property Rights  
Information Centre, Kerala



### Sunil Prabhakar

Digital Media Professional



### Dr. Gopakumar V

University Librarian  
Digital University Kerala



### Dr. Sabu M. K.

Professor  
Department of Computer  
Applications CUSAT



### Sriram V

Chief Librarian  
Centre for Development  
Studies



### Dr. J. Jeffin Gracewell

Associate Professor  
Saveetha Engineering College

## TARGET PARTICIPANTS

- PG students and Research scholars
- Faculty members
- Industry and Research organizations

**Open to participants from all Engineering, Science, and Humanities backgrounds.**

## REGISTRATION FEE

- PG students and research scholars - Rs.850/-
- Faculty members - Rs.1250/-
- Industry and Research organizations - Rs.2000/-

Registration charges include course materials, snacks, and a working lunch. The number of participants is limited to 30, on a first come first serve basis.

**Date:** 17 - 22 February, 2025

**Time:** 9.30 am - 4.30 pm

## REGISTRATION

For registration, scan the QR code of the link below and submit it on or before **12 February 2025**.

Register online using the link:  
<https://forms.gle/YHXF99RtMQU2kq4n9>

For payment of registration fees, scan the QR code below. Enter the transaction number in the registration form.

Registration  
QR Code



Payment  
QR Code

