OBJECTIVES OF THE FDP:

The objective of this Faculty Development Programme is to provide participants with a comprehensive understanding of Agentic AI and its integration with Secure and Intelligent Cyber-Physical Systems (CPS) by exploring the latest advancements in Artificial Intelligence, Large Language Models (LLMs), autonomous intelligent agents, cybersecurity, Internet of Things (IoT), Edge Computing, Digital Twins, and intelligent automation. The programme aims to enhance participants' knowledge and practical skills in designing, developing, and securing AI-enabled Cyber-Physical Systems through expert lectures, hands-on sessions, and real-world case studies. It also seeks to promote interdisciplinary research, innovation, and industry-academia collaboration while enabling faculty members and researchers to incorporate emerging technologies into teaching, research, consultancy, and project development. Furthermore, the programme emphasizes the development of secure, trustworthy, and responsible AI solutions that address contemporary technological challenges and contribute to sustainable innovation in line with national priorities and the United Nations Sustainable Development Goals (SDGs).

OUTCOMES OF THE FDP:

Upon successful completion of the programme, participants will be able to:

1. Understand and apply the fundamental concepts of Agentic AI, Large Language Models (LLMs), and Cyber-Physical Systems (CPS) for designing intelligent and autonomous applications.
2. Design and develop secure AI-enabled Cyber-Physical Systems by integrating AI agents, IoT, Edge Computing, and modern AI frameworks to solve real-world engineering problems.
3. Identify and mitigate cybersecurity threats in AI-driven systems by adopting secure design principles, trustworthy AI practices, and responsible AI governance.
4. Enhance their teaching, research, and innovation capabilities by incorporating emerging technologies, hands-on tools, and interdisciplinary approaches into academic and research activities.
5. Foster collaboration with academia and industry to undertake high-quality research, develop innovative solutions, and contribute to sustainable technological advancements aligned with national priorities and the Sustainable Development Goals (SDGs).

ABOUT THE COLLEGE:

East Point College of Engineering and Technology (EPCET), established in 1999 under the aegis of M. G. Charitable Trust, is located in the eastern part of Bangalore near Bidarahalli, about 7 km from K.R. Puram.The institution is affiliated with Visvesvaraya Technological University (VTU), Belagavi, and all its programs are approved by AICTE. EPCET has been granted autonomous status by UGC and VTU from the academic year 2024–25 for a period of five years. The college offers seven undergraduate and two postgraduate programs, with all eligible programs accredited by the National Board of Accreditation (NBA), New Delhi, and has been accredited with an 'A' grade by NAAC in 2025.

With a student strength of around 2500 and a team of over 150 qualified faculty members, including a significant number of doctorates, the institution emphasizes academic excellence and research-driven learning. EPCET provides a vibrant learning environment supported by modern infrastructure, including well-equipped laboratories, smart classrooms, seminar halls, and a library with over 50,000 volumes, along with campus-wide Wi-Fi connectivity.

The institution focuses on holistic development through industry-oriented training, internships, and active student participation in technical, cultural, and sports activities. With a strong commitment to innovation in teaching and learning, EPCET strives to nurture competent professionals equipped to meet global challenges.

ABOUT THE DEPARTMENT:

The Department of CSE (Artificial Intelligence & Machine Learning) at East Point College of Engineering and Technology (EPCET), established in 2023 with an intake of 60 students and the Institute is affiliated with VTU, Belagavi. Department offers a four-year B.E. program with 120 students' intake from the current academic year 2025-26. Its mission is to provide students with a strong foundation in artificial intelligence, Machine learning, computer science, programming, and emerging technologies. The curriculum covers a wide range of subjects, including artificial intelligence, programming languages, algorithms, operating systems, machine learning, Natural Language Processing & Generative AI. The department has well-equipped labs, and a dedicated faculty involved in research and teaching.

VISION:

To develop competent professionals in the field of Artificial Intelligence and Machine Learning to serve best to the society.

MISSION:

M1: To achieve academic excellence through innovative teaching-learning practices that will best serve the society.

M2: To nurture successful Computer Science Engineering graduates with a specialization in AI&ML with professional responsibilities and commitment to lifelong learning.

M3: To establish Center of Excellence in areas of Computing, Artificial Intelligence & Machine Learning to inculcate strong ethical values, applied research capabilities.

EAST POINT COLLEGE OF ENGINEERING & TECHNOLOGY

AN AUTONOMOUS INSTITUTION, AFFILIATED TO VTU, APPROVED BY AICTE
ACCREDITED BY NATIONAL BOARD OF ACCREDITATION (NBA) - CSE, ECE & ISE

NAAC GRADE A

AICTE Training and Learning (ATAL) Academy Sponsored

Six Days Online Faculty Development Programme on

AGENTIC AI FOR SECURE AND INTELLIGENT CYBER-PHYSICAL SYSTEMS

18th January 2027 to 23rd January 2027



Organized by

Department of CSE (Artificial Intelligence and Machine Learning

ABOUT THE FDP:

This Faculty Development Programme is designed to introduce participants to the latest developments in Agentic AI, Large Language Models (LLMs), and Cyber-Physical Systems, with a special focus on building secure and intelligent autonomous systems. The programme will provide a balanced combination of theoretical concepts, practical demonstrations, hands-on sessions, and real-world case studies delivered by experts from academia and industry.

The FDP aims to bridge the gap between emerging research and practical implementation by enabling participants to understand how AI agents can perceive their environment, make informed decisions, interact with physical systems, and operate securely in dynamic environments. Participants will also gain exposure to the cybersecurity challenges associated with AI-enabled systems and explore techniques for developing trustworthy and resilient intelligent applications.

AICTE –TRAINING AND LEARNING (ATAL) ACADEMY:

The Government of India in association with AICTE launched the ATAL academy in 2018. The Vision of ATAL academy is to empower faculty to achieve goals of Higher Education such as access, equity and quality.

Objectives of Academy:

- To set up an Academy which will plan and help in imparting quality technical education in the country.
- To support technical institutions in fostering research, innovation and entrepreneurship through training.
- To stress upon empowering technical teachers & technicians using Information & Communication Technology.
- To utilize SWAYAM platform and other resource for the delivery of trainings.
- To provide a variety of opportunities for training and exchange of experiences. Such as workshops, Orientations, learning communities, peer mentoring and other faculty development programmes.
- To support policy makers for incorporating training as per requirements.

TARGET AUDIENCE:

Faculty members of AICTE approved institutions, Universities, research scholars, PG Scholars, participants from Government, Industry (Bureaucrats/Technicians/Participants from Industry etc.) and Engineers from R&D Labs are invited for registration.

Details of Registration:

The participants are advised to apply online through:
https://atalacademy.aicte-india.org/
Kindly visit https://atalacademy.aicteindia.org/FAQs for more information.

NUMBER OF PARTICIPANTS IS LIMITED TO 100.
FREE REGISTRATION FOR ALL PARTICIPANTS.

Selection of the participants will be based on first come first serve basis. The coordinators decision will be final in the selection of participants.

ONLINE PLATFORM:

The entire programme will be conducted through online mode. The details of online platform and meeting link will be communicated to the selected candidates through their registered email. Assessment on topics covered will also be done through online mode. Minimum 80% attendance and 70% Marks are required to earn certificate.

TOPICS TO BE COVERED:

- Introduction to Cyber-Physical Systems
- Fundamentals of Artificial Intelligence and Agentic AI
- Large Language Models (LLMs) for Intelligent Systems
- Designing AI Agents for Cyber-Physical Systems
- Retrieval Augmented Generation (RAG) and Knowledge Integration
- Cybersecurity for Intelligent Cyber-Physical Systems
- Adversarial AI and Trustworthy Artificial Intelligence
- Edge AI, IoT, and Intelligent Automation
- Case Studies and Industrial Applications

RESOURCE PERSONS:

Overseas Experts:

- Sussan De, Director, Innovation Platforms, SC Ventures by Standard Chartered, Singapore.
- Mr. Anesh Arch Victor, AI Adoption Strategist, Kirkland, Washington, USA.
- Dr. Roopa, Senior Research Database Management, Agriculture and Agri-Food, Canada.

Industry & Academic Experts

- Ms. Arfin Parween, Software Engineer, IELEKTRON Technologies, Bengaluru.
- Mr. Anuj Dwivedi, Founder, Archzos Private Limited, Bengaluru.
- Dr. Gururaj G P, Consultant Psychiatrist & Psychotherapist, Axon Hospital, Indiranagar, Bengaluru.
- Dr. Selvaraj Kesavan, Solution Architect, DXC Technology.
- Dr. Manish Kumar, Associate Professor, RV University, Bengaluru.
- Dr. Siddesh GM, Professor and Head, MSRIT, Bengaluru.
- Dr. A N Ramya Shree, Associate Professor, MSRIT, Bengaluru.
- Dr. Abhijit Das, Assistant Professor, Senior Scale, Department of Information Technology, Manipal Institute of Technology, Bengaluru.



Chief Patron

Smt. B.L.Ramadevi Venkatpathi, Chairperson,EPGI

Patrons

Sri. S.V.Pramod Gowda, CEO, EPGI
Sri. S.V.Rajiv Gowda, CEO, EPGI
Sri. Peter Francis, Secretary, EPGI

Advisors

Dr. Pradipkumar Dixit, Principal, EPCET
Dr. G Indumathi, Dean Academics, EPGI

Convenor

Dr. C Emilin Shyni, HOD - CSE (AI & ML), EPCET

Coordinators

Dr. C Emilin Shyni, HOD - CSE (AI & ML), EPCET
Mrs. Vetrikani R, Assistant Professor, CSE (AI & ML), EPCET

East Point College of Engineering & Technology
(An Autonomous Institution Affiliated to Visvesvaraya Technological University (VTU), Belagavi)
Jnanaprabha, Virgo Nagar Post, Bidarahalli, Bengaluru - 560 049, Karnataka, India.

