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IIT Guwahati

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Course Coordinator from IIT Guwahati

Dr. Prithwijit Guha

Associate Professor

Dept. of Electronics and Electrical Engineering

IIT Guwahati

One Week Online Faculty Development Programme
on

Agentic AI for Smart Decision-making and Human-AI Collaboration

19th to 23rd January, 2026

About E&ICT Academy

Electronics and ICT Academy is an initiative of the Ministry of Electronics and Information Technology (MeitY), Govt. of India for conducting various Faculty / Research Scholar Development Programme. Academy has planned short term training programmes on fundamental and advanced topics in IT, Electronics & Communication, Product Design, Manufacturing with hands-on training and project work using the latest software tools and systems. In addition, the Academy will conduct specialized / customized training programmes and research promotion workshops for corporate sector & educational institutions.

Who Can Attend?

The Programme is open to Faculty Members and PhD Research Scholars from universities and colleges. Faculty members are requested to submit an NOC from their respective institute before attending the session.

For details of the Programme and course contents please log in to Electronics and ICT Academy website: https://eict.iitg.ac.in

Scan to Register

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Organized by

E&ICT Academy, IIT Guwahati

in association with

Department of Computer Science and Engineering

Vasavi College of Engineering, Hyderabad

ABOUT Vasavi College of Engineering :

Vasavi College of Engineering was established in 1981 by the Vasavi Academy of Education and has grown into a well-known engineering college in Telangana. The college follows the vision of Sri Pendekanti Venkata Subbaiah, a respected leader of Independent India. Over the past 44 years, the college has earned a strong reputation and is accredited by NAAC with an 'A++' grade. It has also been ranked 3rd in the state and 32nd in the country (Hindustan Times, 24 June 2009). The college offers seven undergraduate engineering programs—Civil, Mechanical, ECE, CSE, CSE (AI & ML), EEE and IT with 780 seats, and four postgraduate programs—ME (ES & VLSI), ME (ADM), ME (PS & PE) and M.Tech (CSE) with 48 seats. The campus is located in Ibrahimbagh, Hyderabad, near the historic Golconda Fort, and has a beautiful 12.7-acre environment with modern buildings and facilities. Over the years, the college has built strong industry connections, upgraded its resources and introduced new programs to match current technology trends. It has been granted autonomous status by the UGC and Osmania University, first for six years starting from 2014–15 and then extended for ten more years up to 2030–31. The undergraduate programs in Civil, CSE, EEE, ECE and Mechanical Engineering are accredited up to June 2027, and the IT program is accredited up to June 2026.

Course Objectives

❖ Introduce the concepts of autonomous, goal-driven AI agents and their role in decision-making systems.

❖ Familiarize participants with agent architectures, reasoning models, and action-planning frameworks.

❖ Explore how AI agents analyze data, evaluate alternatives, and optimize decisions.

❖ Learn key computational approaches such as reinforcement learning, multi-agent systems, and utility-based decision models.

❖ Examine frameworks for designing AI systems that augment human capabilities.

❖ Understand trust, transparency, explainability, and ethical alignment in human-AI teamwork.

❖ Implement agent workflows for real-world problem scenarios in education, research, and industry contexts.

❖ Implement agent workflows for real-world problem scenarios in education, research, and industry contexts.

Course Outcomes

❖ Explain core principles of agentic AI and describe how autonomous agents perceive, reason, and act in complex environments.

❖ Apply AI-driven decision-making models such as reinforcement learning, optimization strategies, and multi-agent frameworks to academic or real-world scenarios.

❖ Design simple agentic workflows or prototypes using available AI tools and platforms to support problem-solving and automation tasks.

❖ Evaluate human–AI collaboration models with respect to trust, transparency, explainability, and user-centric design principles.

❖ Analyze ethical, legal, and societal implications of deploying agent-based systems, with an emphasis on responsible and safe AI usage.

Mode of Delivery

Online through Webex Platform

Please Note:

❖ Participants have to submit UTR No. as the proof of payment while registering for the Faculty Development Programme.

❖ Registration Fees is refundable if the registration cancellation request is submitted before the last date of registration.

For Online Transfer

Bank Name: State Bank of India

Account Name: IIT Guwahati R and D E and ICT Academy

Account No.: 36071160089

IFSC Code: SBIN0014262

IIT GUWAHATI R D

SCAN & PAY

UPI ID: eict2025@sbi

Course Date:

19th to 23rd January, 2026

Per Day Timing:

10:00 am to 05:00 pm (5 hrs project on 24th January 2026 which participants need to complete and submit in Google Classroom by 25/01/2026 for the issue of Participation certificates.)

Contact Hours for the Course:

40Hrs (Theory, Activities, Case Studies & Evaluation)

Registration Fees: Rs. 500/- (Inclusive of GST)

Mode of payment: Online only (NEFT/RTGS/IMPS)

Last Date of Registration: 12/01/2026

Registration Link:
https://forms.gle/JjtgFNijVGGwSkcE9

Pre-Requisite

❖ Basic knowledge of digital electronics and computer architecture

❖ Familiarity with embedded systems fundamentals

❖ Programming experience in C/C++ and Python.

❖ Understanding of operating system basics (processes, threads, memory)