



Faculty Development Program



VIT[®]
Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)

Event Outcome

Title : Mastering AI Agents and MCP: Real-Time Strategies for Innovation

Date : 2026-03-16 - 2026-03-20

Time : 10:00 - 17:30

Venue : SJT 107

- To understand the core concepts of AI agents, their architecture, functioning models and real time decision making mechanisms.
- To gain insights into the Model Context Protocol (MCP) its role in tool integration and real time interaction between AI systems and external environments.
- To familiarize participants with safety, security, and access control considerations while deploying MCP enabled AI agents in practical applications.
- To develop the ability to incorporate AI agent frameworks and MCP concepts into UG and PG curriculum, laboratory experiments, mini projects and capstone initiatives.
- To enhance research competence, industry collaboration, and innovation potential in emerging domains such as autonomous AI systems, multi agent workflows and tool integrated intelligence.

	<p>Resource Person 1 - Details Name : Dr Sathiesh Kumar Designation : Assistant Professor, Computer Science University/ Company : MIT Chennai Anna University campus, Chennai Address : India, 60044.</p>
	<p>Resource Person 2 - Details Name : Mr Deepan Raj M Designation : Technical Lead, HCL University/ Company : HCL Tecnologies, Chennai Address : India, 632014.</p>
	<p>Resource Person 3 - Details Name : Jai Ganesh Suresh Designation : Lead AI Architect , Ericsson University/ Company : Ericsson, Chennai Address : India, 600096.</p>
	<p>Resource Person 4 - Details Name : Mr Richard Rozario A Designation : Senior Software Developer, Software University/ Company : KissFlow Pvt Ltd, Chennai Address : India, 600096.</p>
	<p>Resource Person 5 - Details Name : Neelu Khare Designation : Professor Grade 2, School of Computer Science Engineering and Information Systems University/ Company : VIT, Vellore Address : India, 632014.</p>
	<p>Resource Person 6 - Details Name : Tamil Priya D Designation : Assistant Professor Sr. Grade 1, School of Computer Science Engineering and Information Systems University/ Company : VIT, Vellore Address : India, 632014.</p>
	<p>Resource Person 7 - Details Name : Ganesan K Designation : Professor Higher Academic Grade, School of Computer Science Engineering and Information Systems University/ Company : VIT, Vellore Address : India, 632014.</p>
	<p>Resource Person 8 - Details Name : Ragukumar P Designation : Assistant Professor Sr. Grade 2, School of Advanced Sciences University/ Company : VIT, Vellore Address : India, 632014.</p>

**Resource Person 9 - Details****Name :** Jothish Kumar M**Designation :** Assistant Professor Sr. Grade 2, Office of the VIT Innovation, Startups and Technology Transfer**University/ Company :** VIT, Vellore**Address :** India, 632014.

Resource Person's Profile :

1. Profile of Dr Sathiesh Kumar

Dr. V. Sathiesh Kumar has been working as an Assistant Professor (Selection Grade) in the Department of Electronics Engineering, MIT Campus, Anna University, Chennai, Tamil Nadu, India, since 2014. He is also acting as a deputy director of planning and development and RUSA coordinator at a university. He has about 13 years of teaching experience. His research interests include artificial intelligence systems, embedded systems, optoelectronics, machine learning, and computer vision.

2. Profile of Mr Deepan Raj M

Deepan Raj M is the Technical Manager (Data Science), an AI Corporate Trainer with over 10 years of training experience and 8 years in the corporate sector. Deepan Raj specializes in AI, robotics, and data science solutions. He has conducted 750 workshops across India, including sessions at IITs, NITs, and IISc, and is part of the Indian Book of Records for organizing an AI workshop for 700 students in a single day. He holds a bachelor's in electronics and communications.

3. Profile of Jai Ganesh Suresh

Jai Ganesh Suresh is a Lead AI Architect at Ericsson with over 12 years of rich experience in Artificial Intelligence, Machine Learning, and Deep Learning. He is a Speaker of the India Book of Records and has delivered 800 workshops, FDPs, and guest lectures across premier institutions, including IITs, IISc, NITs, and international universities. He was personally appreciated by the former President of India, Dr A. P. J. Abdul Kalam, for his contribution to the development of a Humanoid Robot.

4. Profile of Mr Richard Rozario A

Richard Rozario A is a Python Developer and technical trainer with experience across software development, AI ML, full stack engineering, and automation. He has contributed to global client projects at Kissflow, delivered workflow automation solutions at Renault Nissan, and built products ranging from LMS platforms and healthcare APIs to autonomous robotic systems. As the founder of Productivv Academy, he created and delivered online courses to 200 students, combining his strengths.

5. Profile of Neelu Khare

Dr. Neelu Khare has been working as a professor in the School of Computer Science Engineering and Information Systems at VIT, Vellore, India, since 2012. Overall, she has 16 years of academic and research experience. She completed a Ph.D. degree from Maulana Azad National Institute of Technology, Bhopal, India, in the year 2011. She has published 55 research papers in international journals and conferences and 6 book chapters. She has guided 6 Ph.D. students. She published 2 patents.

6. Profile of Tamil Priya D

Dr. Tami Priya D received a Bachelor of Technology in Information Technology from Anna University, Chennai, in 2005. She got her master's degree in computer science and engineering from Anna University, Trichy, India, in 2008. She obtained her Ph.D. degree from Vellore Institute of Technology, Vellore, India, in 2021 in the field of image processing and computer vision. Currently, she holds the position of assistant professor in the SCORE School at VIT Vellore.

7. Profile of Ganesan K

Dr. Ganesan Kaliyaperumal is a professor at the Vellore Institute of Technology (VIT), where he has held major leadership roles, including Director of TIFAC CORE in Automotive Infotronics, Dean, Head of Department, and Chairperson of VIT Business School. His research spans signal and image processing, cryptography, embedded and wireless systems.

8. Profile of Ragukumar P

Dr. P. Ragukumar is an Assistant Professor (Senior Grade) in the Department of Mathematics at Vellore Institute of Technology, Vellore. With 17 years of academic, research, and industrial experience, he specializes in graph coloring, quantum algorithms, machine learning, and deep learning. He earned his Ph.D. in Mathematics from Anna University and completed a postdoctoral fellowship at IMSc Chennai. His career includes research work at IIT Madras and six years in industry as well.

9. Profile of Jothish Kumar M

Dr. M. Jothish Kumar is an Assistant Professor Senior in the SCORE at VIT Vellore. He previously served as the Head of the Department of Computer Science and Engineering at Arunai Engineering College, affiliated with Anna University, Chennai, where he also provided technical support to the Tiruvannamalai District Police. A certified CISCO CCNA instructor with over 13 years of service at Arunai Engineering College.

Artificial Intelligence is evolving from isolated models to autonomous agents systems that perceive, reason, and act across complex environments. The Model Context Protocol (MCP) has emerged as the standardized framework enabling AI agents to securely interact with external tools, databases, and APIs in real time, fundamentally transforming what intelligent systems can accomplish.

This Faculty Development Programme equips participants with expertise in modern agent architectures, MCP integration, real-time decision-making, and multi-agent collaboration. As industries deploy AI agents for enterprise automation, robotics, software development, and knowledge management, faculty must understand not just what AI knows, but how AI acts autonomously.

This programme bridges theory and deployment, enabling participants to redesign curricula, initiate cutting-edge research, forge industry partnerships, and lead in the agentic AI era.

Python 3.9 (primary language), Jupyter Notebook

Google Colab (interactive development)

OpenAI API (GPT-4, GPT-3.5) requires API key

Google Gemini API

Hugging Face Transformers (pre-trained models)

Hugging Face Datasets

Coordinator's: Prof. NEELU KHARE 13587 - Professor Grade 2 - SCORE
Prof. TAMIL PRIYA D 12572 - Assistant Professor Sr. Grade 1 - SCORE