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# SYMBIOSIS

INSTITUTE OF TECHNOLOGY, HYDERABAD

## ONE WEEK FACULTY DEVELOPMENT PROGRAM ON Advances in AI and Quantum Technologies: Bridging Explainability, Vision, and Large Language Models

in collaboration with STLRC



17th - 21st March, 2025

**MODE: ONLINE**

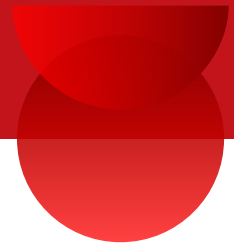


**SYMBIOSIS INTERNATIONAL (DEEMED UNIVERSITY)**

(Established under Section 3 of the UGC Act, 1956) | Re-accredited by NAAC with 'A++' grade | Awarded Category - I by UGC

# Objectives of the FDP/Session

- To provide an in-depth understanding of the latest advancements in Artificial Intelligence (AI) and Quantum AI.
- To explore Explainable AI, Computer Vision, and Large Language Models (LLMs) in research and industry applications.
- To discuss real-world implementations of AI-driven solutions in diverse domains.
- To introduce Quantum AI and its potential impact on future computing paradigms.



## Learning Outcomes

Participants will gain,

- Foundational and advanced knowledge of AI and Quantum Computing.
- Understanding of Explainable AI, AI-based software engineering, and industry applications.
- Practical exposure to Computer Vision techniques and deep learning models.
- Hands-on learning with Large Language Models and their real-world applications.

# Schedule of The FDP

Day & Date	Session	Topics/ Content Details (Tentative)	Resource person
Day 1 (17/03/2025)	Pre-lunch- 1 session (11:00 AM- 11:30 AM)	Inaugural Session	CONVENOR
	Pre-lunch- 1 session (11:30 AM- 1:00 PM)	Amalgamation of Blockchain and AI for healthcare beyond 5G	Dr. Sudeep Tanwar
	Post-lunch - 1 session (2:30 PM- 4:00 PM)	Quantum AI: The Future of Artificial Intelligence	Mr. Syama Sundar Santosh Kumar Gopasana
Day 2 (18/03/2025)	Pre-lunch- 1 session (11:00 AM- 12:30 PM)	Industry Applications and Case Studies in Quantum Computing	Mr. Syama Sundar Santosh Kumar Gopasana
Day 3 (19/03/2025)	Pre-lunch - 1 session (11:00 AM- 12:30 PM)	Explainable AI and its role in modern applications	Dr. Mayuri Mehta
	Post-lunch - 1 session (2:30 PM- 4:00 PM)	Implementation of query-based person retrieval system on edge devices	Dr. Mehul Raval
Day 4 (20/03/2025)	Pre-lunch- 1 sessions (11:00 AM- 12:30 PM)	Large Language Models and Their Real-World Implementations	Dr. Santosh Chapaneri
	Post-lunch- 1 session (2:30 PM- 4:00 PM)	Exploring OpenCV: Computer Vision Applications and Beyond	Suresh Kumar Badhagouni
Day 5 (21/03/2025)	Pre-lunch- 1 session (11:00 AM- 12:30 PM)	Large Language Models and their role in Agents and Agentic automation	Mr. Kameshwara Pavan Kumar Mantha
	Post-lunch- 1 session (2:30 PM- 4:00 PM)	Introduction to Gen AI and Building a Retrieval-Augmented Generation (RAG) Model	Dr. Rajanikanth Aluvalu
	4:00 Pm Onwards	Test followed by Valedictory session	

# About The University

Symbiosis International (Deemed University), established in 1971 by Prof. Dr. S. B. Mujumdar, is a multi-disciplinary institution dedicated to "Promoting International Understanding through Quality Education." With students from 85+ countries, the university provides a global learning environment rooted in the philosophy of "Vasudhaiva Kutumbakam" (The World is One Family).

SIU is recognized for academic excellence, holds Category-I status by UGC, 'A++' NAAC accreditation, ranks 31st in India (NIRF 2024), and 10th in Innovation (ARIIA 2021). SIU is Spread across six Indian cities and has an international campus in Dubai, UAE; the university is a hub for research and innovation, with strong contributions in AI, medical imaging, behavioral science, sustainability, and nanotechnology. Symbiosis continues to empower students with world-class education, fostering knowledge, innovation, and global collaboration.

## About SIT HYDERABAD

Symbiosis Institute of Technology (SIT) Hyderabad is one of the best engineering colleges in Hyderabad established in 2024 inheriting splendid novelty, dynamism, and excellence in education. It is nurtured by the visionary ideas of Dr. S.B. Mujumdar, Chancellor, Symbiosis International (Deemed University) on the principles of vedic thought 'Vasudhaiva Kutumbakam' which means 'World is One Family.' Symbiosis Institute of Technology, Hyderabad is a constituent of Symbiosis International (Deemed University), Pune, India.

# Patrons

## Dr. S. B. Mujumdar

Founder & President, Symbiosis  
Chancellor, Symbiosis International (Deemed University), Pune,  
India

## Dr. Vidya Yervadekar

Principal Director, Symbiosis  
Pro Chancellor, Symbiosis International (Deemed University),  
Pune, India

## Dr. Ramkrishanan Raman

Vice Chancellor  
Symbiosis International (Deemed University), Pune, India

## Convenor

### Dr. Rajanikanth Aluvalu

Director & Professor, SIT Hyderabad

## Coordinators

### Dr. Amulya Prasad Panda

Assistant Professor

## Co-Convenor

### Dr. Akash Sharma

Assistant Professor

### Dr. M. Santhosh Kumar Goud

Assistant Professor

## Resource Person's

Dr. Mayuri Mehta, Professor, SCET, Gujarat

Dr. Sudeep Tanwar, Professor, Nirma University, Gujarat

Dr. Mehul Raval, Professor, Ahmedabad University, Ahmedabad

Dr. Rajanikanth Aluvalu, Director & Professor, SIT Hyderabad

Mr. Syama Sundar Santosh Kumar Gopasana, Quantum AI Specialist, Accenture, Hyderabad

Mr. Kameshwara Pavan Kumar Mantha, Lead AI Engineer, OpenText

Dr. Santosh Chapaneri, AI/ML Expert, Wolters Kluwer

Mr. Suresh Kumar Badhagouni, Software Engineer, Accellor Pvt. Ltd

## Organising Committee

Dr. Shshank Chaube

Dr. Mohmad Ausif Padder

Dr. Amulya Prasad Panda

Dr. Dhruva Jyoti Bora

Mr. Pallati Narsimhulu

Dr. Sriram Kumar P

Dr. M. Santhosh Kumar Goud

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