

## Resource Persons

**Dr. P B Sujit**

Professor

Department of Electrical Engineering and  
Computer Science, IISER, Bhopal

**Dr. B M V A Raju**

Associate Professor

Department of Mechanical Engineering  
NIT, Pudhcherry

**Dr. B B V L Deepak**

Associate Professor

Department of Industrial Design  
NIT, Rourkela

**Dr. Eswaran M**

Research Associate

Department of Applied Mechanics  
IIT, Madras

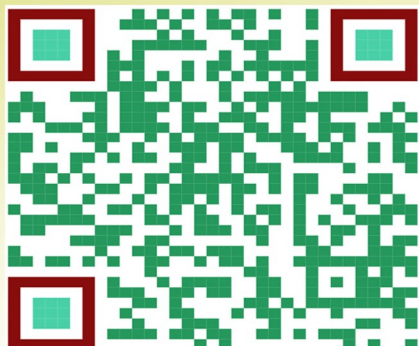
## Resistration

Online Registration link for the FDP:

<https://forms.gle/wFxAxUIEdRQDoeac8>

OR

Scan QR



Last Date: On or Before 3PM @ 01/10/2024

## Chief Patron

**Sri. M. Srinivasa Rao**

Ex Tourism Minister, AP

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**Sri. I. Sravan Kumar**

Treasurer & MD, Avanthi Educational Society

**Dr. M. Priyanka**

General Secretary, Avanthi Educational Society

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Vice President, Avanthi Educational Society

## Convenors

**Dr. V.Joshua Jaya Prasad,**

Principal, ASTC

**Sri B .Venkata Ramana,**

Vice Principal, ASTC

**Sri A. Anil Kumar,**

A.O, ASTC

## Co-ordinators

**Mr. M. Umamaheswararao ,**

Associate Professor & HOD, Department of CSE

**Mrs. A. Krishnaveni**

Assistant Professor, HOD, Department of CSE(AI&ML)

## Organizing Department

**Mr. B.Rajasekharam,** Assistant Professor

**Mr. M. John Timothy,** Assistant Professor

**Mr. G.Venkateswarao,** Assistant Professor

**Mr. D. David Prakash,** Assistant Professor

**Mr. Y. Hari Naidu,** Assistant Professor

**Mr. M. Jeevaratnam,** Assistant Professor

**Mrs. M. Jayalakshmi,** Assistant Professor

**Mrs. J. Jeevitha,** Assistant Professor

**Mrs. B. Geethasri,** Assistant Professor

**Mrs. S. Meena,** Assistant Professor

**Mr. CH. Guna Sekhar,** Assistant Professor

## A Three-Day

Online Faculty Development Program (FDP)

on

# Immersive Technologies VR/AR/MR with Machine Learning Applications

**2 - 4 October 2024**



Organized by

Department of Computer Science and Engineering  
Avanthi's St Theresa Institute of Engineering and  
Technology Garividi, Vizianagaram, AP

Approved by APSCHE & AICTE

Affiliated by JNTU GV

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## About Institute

Avanthi's St. Theresa Institute of engineering & technology is established in the year 2001, with a vision "To be among most preferred premier Engineering colleges" for overall development of the student by means of Engineering education, integrity, Innovation & Social responsibility with ethical values. It is approved by AICTE & APSCHE and affiliated to JNTU GV. This college is belongs to "Avanthi's Group of Institutions" which has 29 years of excellence in the field of Education. The college has good infrastructure, eminent faculty & lavish playground. The college provides engineering education to many rural students. The college have CSE, CSE(AI&ML), ECE, Mech & EEE courses are available in the B.TECH level and in the M.Tech Power Electronics & Electrical Drives, VLSI & CSE and MBA courses are available. In our group have a strong placement cell, this implements a systematic strategy, for best placements to the students. Our top recurtiers are Infosys, Accenture, TCS, IBM, Tech Mahindra, Gen Pact, Enfratech systems, Effitronics, Wheels India Ltd., Daikin Maintec, and Poornima Info Vision, We take care about English communication, Arithmetic, reasoning for the competitive examinations. The college is provided with a conducive environment for learning, Innovation and research.

## About Department

The Department of Computer Science Engineering (CSE) of this esteemed Institution was established in 2005. The Department was established with an undergraduate (B. Tech) and P.G (M.Tech) program. The department which emphasizes the basics of computer programming and networking, comprises a plethora of topics. The said topics are related to computation, algorithms, programming languages, program design, computer software, computer hardware, etc. In addition to that our department offers B. Tech in Artificial Intelligence and Machine Learning as the advanced course at UG Level in the computer science stream which is creating a big pool of job opportunities in this area.

## Content of FDP

The industries in the manufacturing domain are experiencing substantial changes in the functionalities with the arrival of emerging technologies in Industry 4.0 to Industry 5.0 towards machine learning strategies. In the current context, industries are blooming to satisfy customer demands in terms of high-quality products, customized products, and mass production in minimum time. In this context, the embracing of immersive technologies with artificial intelligence in the industrial environment enables the manufacturer to resolve the challenges with worker cognitive load. Consequently, this program focuses on explorations of immersive technologies with machine learning techniques and hands-on practices with the accessibility of wearable visualization devices for industrial applications. At the end of the FDP, the participating faculty will be able to explore the potential of immersive technologies in engineering industrial applications.

## Program Sheet

Date	Time	Content	Resource Person
02/10/2024	6pm-7pm	Industry 4.0 to Industry 5.0	Dr. B M V A Raju Associate Professor Department of Mechanical Engineering NIT, Pudhcherry
02/10/2024	7pm-8pm	Virtual Reality for the Swarm Systems	Dr. P B Sujit Professor Department of Electrical Engineering and Computer Science IISER, Bhopal
03/10/2024	6pm-7pm	Introduction to VR/AR/MR fundamentals and its Machine Learning Applications	Dr. B M V A Raju Associate Professor Department of Mechanical Engineering NIT, Pudhcherry
03/10/2024	7pm-8pm	Mixed Reality for Robotic Assembly System through Human Interaction and Machine Learning Strategy	Dr. B B V L Deepak Associate Professor Department of Industrial Design NIT, Rourkela
04/10/2024	6pm-7pm	Hands on Training on Introduction to Augmented Reality	Dr. Eswaran M Research Associte Department of Applied Mechanics IIT, Madras
04/10/2024	7pm-8pm	Simultaneous Image Tracking Using a AR Greeting Card / Virtual Buttons in Augmented Reality	Dr. Eswaran M Research Associte Department of Applied Mechanics IIT, Madras

## Targeted Audience

All Engineering Faculty, Ph.D Scholars, P.G Students, And Industrial persons.

## Fees Structure

- Your Participation is impotant than the fees. Hence there is no registration fees.
- On Successful completion of the FDP certificates will be issued based on the attendance.

## Contact Persons

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