

RESOURCE PERSON

Sessions will be handled by eminent persons from reputed Institutions/Industries.

HOW TO APPLY?

The applicants should register at AICTE-ATAL web portal at the earliest.

Website : <http://www.aicte-india-org/atal>

ELIGIBILITY AND SELECTION

Faculty members from AICTE approved Engineering Colleges can apply. Selection is on “first come first serve” basis. Selection will be intimated through mail and selected participants should confirm their participation.

REGISTRATION:

- No Registration Fee
- TA/DA will not be provided
- Selected Participants should attend program for the entire duration through online

Address for Communication :

The Co-ordinator

FDP ON ARTIFICIAL INTELLIGENCE FOR ROBOTICS

Department of Electronics & Communication Engineering

Sri Sairam Engineering College, Sai Leo Nagar,

West Tambaram Chennai – 600 044.

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Sairam
INSTITUTIONS



ORGANIZING COMMITTEE

Chief Patron

Shri. Sai Prakash LeoMuthu
Chairman & CEO

Patrons

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Principal

Dr. J. Raja

Dean (Academics) & Head - ECE

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Ms. K. Jeyapiriya, Asst. Professor / ECE
Mr. K. Devibalan, Asst. Professor / ECE
Mrs. S. Gayathri, Asst. Professor / ECE
Mr. T. Sivasakthi, Asst. Professor / ECE



DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

FIVE DAYS FACULTY DEVELOPMENT PROGRAM ON ARTIFICIAL INTELLIGENCE FOR ROBOTICS

07.12.2020 TO 11.12.2020

Sponsored by



AICTE Training and Learning (ATAL) Academy



Sri
SAI RAM ENGINEERING COLLEGE
An Autonomous Institution

Sai Leo Nagar, West Tambaram, Chennai - 600 044. www.sairam.edu.in



ABOUT THE COLLEGE

Sri Sairam Engineering College, Chennai, established in the year 1995 by MJF Ln Leo Muthu, Chairman of Sapthagiri Educational Trust, is a non-profitable, and non-minority institution. A well defined vision to provide world-class engineering education and highly committed mission to achieve, sustain and foster unmatched excellence in technical education with dedicated leadership facilitate Sri Sairam Engineering College to be in the best of educational institutions in the country. Since its inception, our institution has grown into a vast conglomerate of magnificent buildings, state-of-the art and sophisticated laboratories internet centers, modern library and a superlative sports complex-each a land mark in itself across 300 acres. The college is affiliated to Anna University and is also approved by the All India Council for Technical Education, New Delhi. Our students are motivated to be technologically superior and ethically strong, who in turn shall contribute to the advancement of society and humankind to build a better nation through quality education with team spirit. Sri Sairam Engineering College is an ISO 9001: 2015 Certified institution and all the NBA eligible disciplines of Engineering and Management have been accredited by the National Board of Accreditation. The institution has also been accredited by the NAAC with "A+" grade for a period of 5 years.

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

The Department of Electronics and Communication Engineering was started in the year 1995. The department is accredited by the National Board of Accreditation. Well experienced and dynamic faculty imparts knowledge and

skills to inculcate the professional responsibilities to play leadership role along their diverse career paths and develop capability to utilize innovative and creative engineering skills in industry. The dedication of our faculty and the keen interest exhibited by our students has produced a commendable academic record with university ranks every year.

The department inculcates R & D acumen among the faculty and students. They are encouraged to implement their innovative ideas for the benefit of the society. The department received over Rs. 1 crore funding from organizations such as AICTE, DST, CSIR IGCAR and DRDO for research projects and to organize technical events.

FDP THEME

Artificial Intelligence (AI) and Robotics have gained a rapidly expanding foothold in the workplace, faster than many organizations ever. This is predicted to be one of the most wanted skills in the near future. This course is designed to provide an exposure to the fundamentals of Robotics and Artificial Intelligence. Participants will learn kinematics and dynamics of industrial manipulators, kinematics of mobile robots, trajectory planning, path planning and control and how to embed intelligence in robotic tasks. Therefore, the course provides basic understanding of mathematical methods for modeling and control of robot manipulators.

The course will be useful for students, faculty of engineering and sciences and industry person who are interested in learning robotics and intelligent systems. This will aid the faculty members and research scholars from various institutions for their academic and research purpose.



TOPICS COVERED

- Robotics Kinematics
- Robotics Control, Modeling and Simulation of Dynamic System
- Mobile Robot Navigation
- Path Planning, Computer Vision using Open CV
- Underwater Robots
- Deep Learning Applications: Challenges and Solutions
- Machine Learning to Build Smart Systems
- Case Study: Mechatronics System Design
- Building of Autonomous Robots
- Study of Simulation Tools such as Robot Operating System (ROS), Webots, etc.
- Humanoid Robots & Advances in Robotics
- Future of AI in Robotics