ABOUT THE COLLEGE

The College is situated in an eco-friendly area of 180 acres with thick greenery at Surampalem, Gandepalli Mandal, East Godavari District, Andhra Pradesh. The College is 15 KM away from Samalkot Railway Station on Howrah-Chennai Railway line in South Central Railway. The College is 35 Km away from Kakinada and Rajahmundry on ADB Road. The dreams of its bounding took shape in 2004 in the form of Sri Sai Aditya Institute of Science and Technology which is renamed as Aditya College of Engineering and Technology (ACET) with approval of AICTE in the aegis of Sarojini Educational Society, Kakinada and permanently affiliated to JNTUK Kakinada. It is accredited by National Assessment and Accreditation Council (NAAC) with 'A+' Grade with 3.40 CGPA and accredited by NBA. The Aditya College of Engineering and Technology is now (Autonomous) offers various under graduate and post graduate courses in engineering, science and management and has state of art laboratories and well stocked library and one of the best computing facilities .The college proudly offers 8 UG and 4 PG programmes in engineering, MCA, MBA with 15 years of rich standing in the educational era. Besides, the college has added many feathers in its cap which include AA+ Grade by Careers 360, South India 4th rank by Digital Mailers, South India 6th rank by Silicon India.

ABOUT ECE DEPARTMENT

ECE department was established in the year 2004 with an intake of 60 students and now it has been expanded with an intake of 240 students. ECE plays a vital role in Technology Revolution. Our main aim is to generate new knowledge by engaging in cutting-in research to promote academic growth and to develop human potential to its fullest extent so that intellectually capable & imaginatively gifted leaders can emerge in a range of professions.

We have Modern state of the art and well-furnished labs like Microwave and Optical Communication Lab, Electronic Devices and Circuits lab, Electronic Devices and Circuits lab, Modern Communication Lab, Research lab etc with excellent laboratory facilities and dedicated faculty. The department's footprint is made visible by our distinguished alumni settled in major MNC's like Intel, Capgemini, CGI, TCS, CTS, Accenture, public sector companies and so on. In addition, the department enables training on advanced technologies through Texas Instruments Innovation lab, Robotics Lab etc and organizing workshops on IoT and Robotics.

AIM OF THE PROGRAM

The SERB-sponsored Symposium on "Embracing the Future: AI-Powered 5G/6G Antenna Design " aims to provide a comprehensive platform for researchers, engineers, industry professionals, and academia to explore and discuss the latest advancements, challenges, and opportunities in the field of AI-based techniques and implementations for 5G/6G antenna design. By bringing together experts and stakeholders from diverse backgrounds, the symposium aims to:

- Showcase cutting-edge research and innovations in AI-driven antenna design for 5G and emerging 6G networks.
- Foster collaboration and knowledge exchange among researchers, industry professionals, and academia to accelerate the development and deployment of AI-enabled antenna solutions.
- Identify key challenges and opportunities in AI-based 5G/6G antenna design and chart a roadmap for future research and development.
- Explore the transformative impact of artificial intelligence on wireless communication systems and its implications for the future of connectivity.

Through keynote presentations, technical sessions, panel discussions, and networking opportunities, the symposium aims to inspire and empower participants to embrace the potential of AI in shaping the future of wireless communication.

SERB- Sponsored National Symposium on

"Embracing the Future: AI-Powered 5G/6G Antenna Design"

(Offline Mode)

03-04 May 2024

Organized By Department of Electronics and Communication Engineering

Aditya College of Engineering and Technology(A)

Aditya Nagar, ADB road, Surampalem, Gandepalli mandal, Kakinada District-533437.

COURSE CONTENTS

- **Cellular Evolution: Traversing from 1G to 5G and Pioneering Towards 6G**
- **RF Transceivers: Design and Challenges along with Computational Intelligence Approach**
- **AI enabled MIMO Detection & Performance Analysis of Beam Management Design for 5G and beyond**
- **Millimeter Wave MIMO Antennas: Design Requirements and Challenges**
- **Microstrip Antennas: Importance & Designing Techniques for different Applications**
- **Computer Aided Design Tools for 5G/6G Antenna Design**

RESOURCE PERSONS

Eminent personalities with expertise in related fields from IITs, NITs, and other Universities of repute will form the core faculty for delivering the content

REGISTRATION FEES

No registration fee for participation. A maximum of 50 participants are allowed to attend this Symposium on a first come first serve basis.

Accommodation if required will be available on payment basis.

Registration Link:

https://forms.gle/NfmktRefhYux5GEUA

Last date for Registration : **30/04/2024**

For more details**: www.acet.ac.in**

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TARGET PARTICIPANTS/ ELIGIBILITY

Faculty from AICTE approved engineering colleges, institutions, and from R&D organizations with basic degree in Electronics and Communication Engineering, Electrical and Electronics Engineering, Electronics and Instrumentation Engineering, Electronics and Computer Engineering and those who are associated with research in Wireless Communications and Antennas domain.

CERTIFICATE

Participation Certificate will be issued to all the participants, for which the attendance for the symposium on both days is mandatory.

For further details contact:

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HOW TO REACH