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Mrs. P. Raghava kumari, Assistant professor

Mrs. D. Pavana Kumari, Assistant Professor

Mrs. J. Sujatha, Assistant Professor

Mr. D. Srinivas, Assistant Professor

Mr. S. V. Anand, Assistant Professor

Mr. V.Raju, Assistant Professor

Mr. S. Phani Varaprasad, Assistant Professor

Mr. A.V.S.Deepak, Assistant Professor

Mr. K.V.S.Ganesh, Assistant Professor

Mr. A.Ramana Babu, Assistant Professor

Mr. B. Ramesh Kumar, Assistant Professor

Mr. V. Roja Bharathi, Assistant Professor

Mrs. B. Lalitha, Assistant Professor

Mr. P.Sai Babu, Assistant Professor

Mrs. Nagamani, Assistant professor

Mrs. S. Sireesha, Assistant Professor

ABOUT FDP

The Faculty Development Program (FDP), focuses on equipping participants with advanced knowledge in IoT technology. It explores the latest trends, emphasizing the design and development of resilient, scalable IoT applications for diverse domains. The FDP includes sessions on IoT architecture, data management and security challenges. With expert-led discussions, it aims to enhance research and practical skills, fostering innovation in IoT. This program is ideal for educators, researchers, and professionals aiming to excel in IoT application design. This FDP will focus to benefit people from academic and research communities associated with future technology. The whole course is handled by academicians and industry experts.

Objectives

- To understand the fundamentals and advancements in next-generation IoT technologies.
- To explore techniques for designing robust and scalable IoT applications across industries.
- To analyze IoT architecture, data management, and appropriate strategies.
- To address security challenges and implement solutions for IoT systems.

Expected Outcome

- Participants will gain in-depth knowledge of next-generation IoT architecture and technologies.
- Participants will acquire skills to design robust and scalable IoT applications for real-world challenges.
- Participants will understand the integration of IoT with emerging trends like edge computing and secured data management.
- To make the participants familiar with trending research problems and NEP-2020.

Eligibility

The faculty members of the AICTE approved institutions of ECE, EEE, CSE Allied Branches, research scholars, PG Scholars, participants from Government, Industry (Bureaucrats /Technicians / Participants from Industry etc.) and staff of host institution.

**A One - Week Online
Faculty Development Programme
On
"Next-Generation IoT: The
Convergence of Designing Robust and
Scalable Applications"**

**From
2nd December
to
7th December, 2024**

Organized by



**Department of
Electronics & Communication Engineering
AVANTHI INSTITUTE OF
ENGINEERING & TECHNOLOGY
(AUTONOMOUS)**

Makavarapalem, Anakapalli Dist,
Andhra Pradesh.-531113

**Program Coordinator
Dr.E. Govinda
Professor & HoD, Department of ECE**

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Preamble

It is the need of the day to train the young generation in skill sector and faculty & technicians in their respective disciplines. The National Education Policy (NEP) of 2020 serves as a guiding light for this transformative journey. To keep an institute competitive and more productive, faculty training on the latest tools and technologies is vital. Training is required for increasing the knowledge and skills of students to make them more employable and to acquire global competencies.

About the Institution



The Avanthi Institute of Engineering & Technology, Makavarapalem (AIETM) was established in 1999 with the objective of promoting social empowerment and becoming an institution of excellence in engineering education and research, and has been imparting quality education to students with the aim of bringing engineering education to the doorsteps of rural and semi-urban areas. The growth of the institution is reflected in the increase in the number of students, which currently stands at around 3000.

AIETM has a magnificent permanent buildings with classrooms and laboratories. The institute is approved by AICTE and is permanently affiliated to Jawaharlal Nehru Technological University-Gurajada, Vizianagaram (JNTU-GV) and SBTET, Vijayawada. AIETM has qualified and experienced faculty in all its departments. The college is headed by Dr. C.P.V.N.J.Mohan Rao a senior academician and administrator, having rich experience in Teaching and research.

The institution is accredited by NAAC with a grade of 'A+' and is recognized under sections 2(f) and 12(b) of the UGC Act, 1956 and the Institute has conferred Autonomous status by University Grants Commission (UGC) for 10 years in the year 2024.

AIETM aims at being one of the most premier educational institution in Andhra Pradesh. Our plans are to produce the best quality students who would contribute optimum to the society, nation and the global world with latest trends and innovations. We intend to establish a system of Continuous Quality Improvement (CQI) processes that would evaluate the quality of education and training and improve the teaching-learning methods to ultimately lead the Institute to Excellence.

About ECE Department

Electronics is the branch of study that has revolutionized the life style of humanity. It is a pacesetter and a prime mover behind the transition to a technological society. The field of Electronics and Communication Engineering encompasses all areas of human life. The Department of Electronics & Communication Engineering was started in the year 1999. It is a full-fledged academic department for emerging ECE engineers.

B.Tech. (ECE) program was duly approved by the AICTE and affiliated to JNTU-Gurajada Vizianagaram with an intake of 180 seats. The department has spacious laboratories and state-of-the-art equipment for various laboratories. Seminars, Guest Lectures, Workshops and Technical Symposia are conducted in the department to keep faculty and students updated with latest developments in various technologies.

The department is committed to provide students the opportunity to embark on a rewarding and exciting learning journey in preparation for a future career. Department is making exhilarating progress in areas ranging from signal and Image Processing, microelectronics, mobile communications to VLSI Design Automation. Students draw the expertise and knowledge of our faculty by interacting them in classrooms and Laboratories. The team approach is very warm in the Department of ECE.

Resource Persons



Dr. P.Sankar, Professor
Hindusthan University



Dr.S.Ravi chand
Professor, DNR CET



Dr. Parijata Majumdar,
IIIT Agartala



Prof. B.K.N.Srinivas
NIT, Warangal



Dr. Papiya Dutta,
Professor, BIET



Mr. Subrahmanyam, GM,
Unifirst Robotics



Certification

The certificates shall be issued to the participants who are registered in the form and successfully complete FDP with 80% of attendance.

Interested participants can register using the following link

<https://docs.google.com/forms/d/e/1FAIpQLSdDkWUWJznQtTkVTLmXNjHWhqpw21LeuAuJSVOXDNe1LrWg/viewform>



AVANTHI
INSTITUTE OF ENGINEERING & TECHNOLOGY



MUTTAMSETTI
SRINIVASA RAO
Chairman



Faculty Development Programme

on

**"NEXT-GENERATION IOT: THE
CONVERGENCE OF DESIGNING
ROBUST AND SCALABLE
APPLICATIONS"**

From

2nd December to 7th December, 2024
2PM - 4PM

Program Coordinator
Dr.E. Govinda

Professor & HoD, Department of ECE

Scan to Register now



Resource persons

Dr. P.Sankar,
Professor Hindusthan
University

Dr.S.Ravi
chand Professor,
DNR CET

Dr. Parijata
Majumdar,
IIIT Agartala

Prof.
B.K.N.Srinivas
NIT, Warangal

Dr. Papiya Dutta,
professor, BIET

Mr. Subrahmanyam,
GM, Unifirst
Robotics

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Anakapalli District Andhra Pradesh



AVANTHI



**INSTITUTION'S
INNOVATION
COUNCIL**
(Ministry of Education Initiative)

Institute of Engineering & Technology

**ONE WEEK FDP ON "NEXT-GENERATION
IOT: THE CONVERGENCE OF DESIGNING
ROBUST AND SCALABLE APPLICATIONS"**



**"NAVIGATING THE
IOT LANDSCAPE
MANAGING MILLIONS
OF DEVICES IN REAL
TIME"**

on 3.12.24

@ 2:00 PM

Resource Person

Prof.S.Ravi Chand

DNR CET, Bhimavaram



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**ONE WEEK FDP ON "NEXT-GENERATION
IOT: THE CONVERGENCE OF DESIGNING
ROBUST AND SCALABLE APPLICATIONS"**



IoT in Action : Robust and Scalable applications

Dt: 02/12/2024

@ 2:00 PM

Resource Person

Dr. Sankar P

Hindusthan University



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**ONE WEEK FDP ON "NEXT-GENERATION
IOT: THE CONVERGENCE OF DESIGNING
ROBUST AND SCALABLE APPLICATIONS"**



**Hardware
security for
IoT
applications**

Dt: 05/12/2024

@ 2:00 PM

***Resource Person
Dr. B.K.N.Srinivas
NIT Warangal***



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**ONE WEEK FDP ON "NEXT-GENERATION
IOT: THE CONVERGENCE OF DESIGNING
ROBUST AND SCALABLE APPLICATIONS"**



**Data
management
and big data
analytics in IoT**

Dt: 07/12/2024

@ 2:00 PM

Resource Person

***Dr. Parijata Majumdar
IIIT Agartala***



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**ONE WEEK FDP ON "NEXT-GENERATION
IOT: THE CONVERGENCE OF DESIGNING
ROBUST AND SCALABLE APPLICATIONS"**



**IOT
with
Robotics**

Dt: 04/12/2024

@ 2:00 PM

Resource Person
Mr. S. Sunil Kumar
MD, UniFirst ROBOTICS



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**ONE WEEK FDP ON "NEXT-GENERATION
IOT: THE CONVERGENCE OF DESIGNING
ROBUST AND SCALABLE APPLICATIONS"**



**Integration of
IoT with AI
and ML in 6G
for Health
Care
Application**

Dt: 06/12/2024

@ 2:00 PM

Resource Person
Dr. Papiya Dutta
BIET, Hyderabad