

ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES (Autonomous) :: RAJAMPET

**AN EXCLUSIVE NEWS LETTER OF DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING
FROM ANTRIX-ECE ASSOCIATION**

Reach us at www.aitsrajampet.ac.in/ecdept/index.htm

CONTENTS

Mission and Vision
PEO's and PO's
Events Organized
Student Activities
Faculty Publications

Antrix Newsletter is an amalgamation of all the events held in the Department of Electronics & Communication Engineering, Annamacharya Institute of Technology & Sciences, Rajampet. This e-News letter is compiled by Antrix-ECE Association with the inputs of the Faculty and Students of the Department. It plays an instrumental role in providing a greater exposure of the achievements accomplished.



VISION

To offer educational experiences those make the students globally competent, socially responsible and bring in answers to ever-ebbing problems in the field of Electronics & Communication Engineering.

MISSION

To offer high quality premier education in the field of Electronics & Communication Engineering and to prepare students for professional career and higher studies. To promote excellence in technical research, collaborative activities and positive contributions to society

Program Educational Objectives (PEOs)

1. Work efficiently as Electronics & Communication Engineers, including supportive and leadership roles on Multidisciplinary teams.
2. Communicate effectively, recognize and incorporate societal needs and constraints in their professional endeavors with high regard to legal and ethical responsibilities.
3. Develop attitude in lifelong learning, applying and adapting new ideas and technologies as their field evolves.

PROGRAM OUTCOMES

Students in the Electronic and Communication Engineering program should, at the time of their graduation, are in possession of:

Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

EVENTS ORGANISED

- A four day workshop on “MATLAB” was conducted from 18th to 21st October for II B.Tech ECE students by the department of ECE.
- The Resource person was J Prem Kumar, Product Manager, Capricot Technologies Pvt Ltd., Hyderabad. In this workshop the resource person explained importance of MATLAB and application of MATLAB usage on basis of signals.



- One day online Guest Lecture was conducted on “ Digital Signal Processing” by the department of ECE on 17th November for III B.Tech ECE students. The resource person is Dr. Mahesh Kumar H. Kolekar from IIT Patna, Bihar and he is Associate Professor in department of Electrical and Electronics Engineering at IIT Patna.
- In this webinar Resource person taught about DSP applications in the by using the Matlab software and DSP Processors.

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RAJAMPET, ANNAMAYYA DIST. ANDHRA PRADESH
(AICTE Approved, JNTUA Ananthapuramu, A.P., affiliated & NAAC 'A' Grade and NBA accredited)

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
Presents
Guest Lecture on "Digital Signal Processing"
(Virtual mode)

by
Dr. Mahesh Kumar H. Kolekar
Associate Professor-Electrical Engineering Department
IIT Patna, Bihar
17th November 2022

Chief Patrons:
Sri. C.Gangi Reddy, Hon' Secretary, AET
Dr.C. Ramachandra Reddy, Chairman, AET
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Coordinator : Mrs.P.Syamala Devi Assistant Professor - ECE
Organizing Secretary: Dr.J.Chinna Babu, Associate Professor-ECE

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- A Guest lecture on **“BASICS OF Signals and Systems”** was conducted in online mode on 12th December by the department of ECE for II B.Tech ECE students. And resource person is Dr. Sumohana S. Channayappa, Professor – Electrical Engineering department, IIT Hyderabad.
- The resource person taught on basics of signals how they are applied in communication systems. He explained systems classification and applications of signals with examples.

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
 Presents
Guest Lecture on
"Basics of Signals and Systems"
 (Virtual mode)
 by
Dr. Sumohana S. Channayappa
 Professor-Electrical Engineering Department
 IIT Hyderabad
12th December 2022

Chief Patrons:
 Dr. C. Gangi Reddy, Hon' Secretary, AET
 Dr. C. Ramachandra Reddy, Chairman, AET
 Sri. C. Yella Reddy, Vice Chairman, AET
 Sri. C. Abhishek Reddy, Executive Director, AET

Patron: Dr. S.M.V. Narayana, Principal, AITS, Rajampet

Organizing Convener: Dr. CH. Nagaraju, Professor & HOD-ECE
Coordinator : Mrs. J. Himabindhu, Assistant Professor - ECE
Organizing Secretary : Dr. J. Chinna Babu, Associate Professor-ECE

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MADE WITH VISME



- One day Parents meeting was conducted on 28/1/2023 for II B.Tech ECE students by the department of ECE. In this, meeting Principal shared to the parents benefits about college and he also discussed various events conducted in college.
- And HOD of ECE shared to the parents about the department facilities such as labs and activities going in the department and career opportunities in the field of ECE.



- A one day training and workshop on “Communication Radio System” was conducted by the department of ECE on 30/01/2023. The speaker of this event is Mr.Dr.K.Prasad sir, Associate Professor department of ECE AITS Rajampet. In this event the speaker shared the knowledge of Antennas, Communications, FM Radio Systems, microwave antennas.





Antrix- ECE Association Events:

- **Elocution competition** was conducted for 2nd,3rd B. Tech ECE students on the topic “**Covid-19 Pandemic and it’s impact on Healthcare**” by the department of ECE. This Event was conducted on 14th November 2022 by ANTRIX ECE Association.
- **Anthyakshari Competition** was conducted for 2nd, 3rd B. Tech ECE students by the department of ECE. This Event was conducted on 15th December 2022 by ANTRIX ECE Association.

Editorial Team

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