ANTRIX NEWS LETTER

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/ecedept/index.htm

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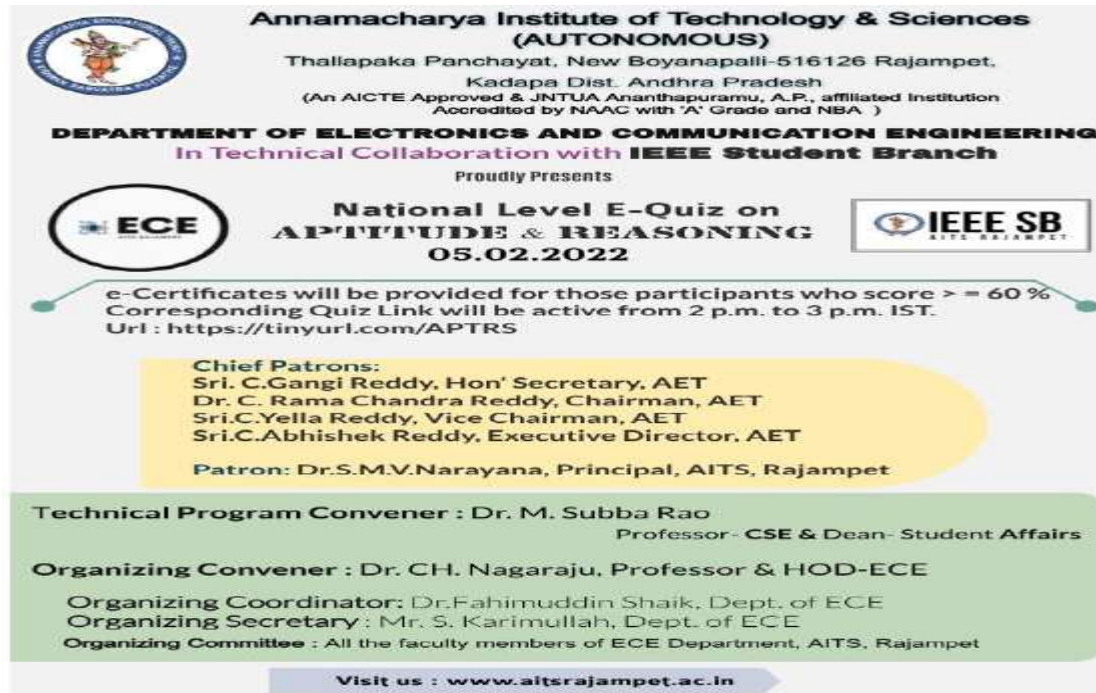
Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

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

- **National Level E-Quiz on APTITTUDE & REASONING** was conducted for 1st,2nd ,3rd, 4th year students of ECE department on 5th February 2022 by ANTRIX ECE Association.

- The purpose of this E-Quiz is from the idea that students finding it hard to clear aptitude test and reasoning. This E-Quiz provided a platform for students aimed to build best career with a Dream Job, Crack your Competitive Exam, Placement Interviews with free of cost as part of training.

- One day online webinar on **"IMAGE PROCESSING AND COMMUNICATION"** was conducted on 22nd February 2022 by the dept. of ECE and in association with ANTRIX. In this guest lecture IV B.Tech ECE students are participated. A webinar aimed to provide the advanced image processing techniques and communication for the engineering community. Given its scope, the webinar was aimed for interested researchers, students who want to learn research ideas, state - of - the art methods and tools in all aspects of image processing and Communications.

- A Guest lecture on **"BASICS OF OPTICAL FIBER COMMUNICATION AND ITS APPLICATIONS"** was conducted on 11/03/2022 by ANTRIX ECE Association for III ECE students. With the recent development in the optical fiber communication aimed for high bandwidth and data rate transmission, this lecture brought the potential applications. The potential applications revealed a number of applications in which optical fiber act as a backbone infrastructure. The characteristics of fiber communication with its different properties were discussed.

- One day online webinar on **"INDUSTRIAL AUTOMATION USING EMBEDDED SYSTEMS & IoT"** was conducted on 13th April 2022 by the dept. of ECE and in association with ANTRIX. In this guest lecture, III & IV B. Tech ECE students are participated. The resource person is Mr. S. Selvaradji, Senior Executive of M/s SSI Embedded Foundations, M/s SS Technologies, Chennai.

- This one day webinar aimed to make the aspiring engineers acquainted with the conceptual knowledge of the Industrial Automation, Embedded System & Latest Technologies being used to achieve Automation. The session dealt with Recent Trends in Industrial Automation, detailed study of PLC and different software used for the embedded system

- Two day Live Industrial Training on **"ROBOTICS "** was conducted from May 13th to 16th march 2021 by Team EnFlare Technologies . In this online programme, faculty members and students are participated. This event was conducted by Antrix ECE Association.

- This two day live industrial training aimed especially for students and researchers interested in understanding the mathematical models of industrial robots and their most common control methods.

- A two day workshop on "**MATLAB Programming**" was conducted for II-ECE students from 24th to 25th June 2022.The Resource person was J Prem Kumar, Product Manager, Capricot Technologies Pvt Ltd. This event has been arranged by ECE ASSOCIATION (ANTRIX).

- This two day workshop covered tutorial. an introductory programming that uses MATLAB to illustrate general concepts in computer science and programming. Students gain an understanding of the general concepts of programming, and obtain a solid foundation in the use of MATLAB. The workshop include various data types and how to handle them in MATLAB. Students learned the powerful support MATLAb provides for working with matrices and calculation and so on
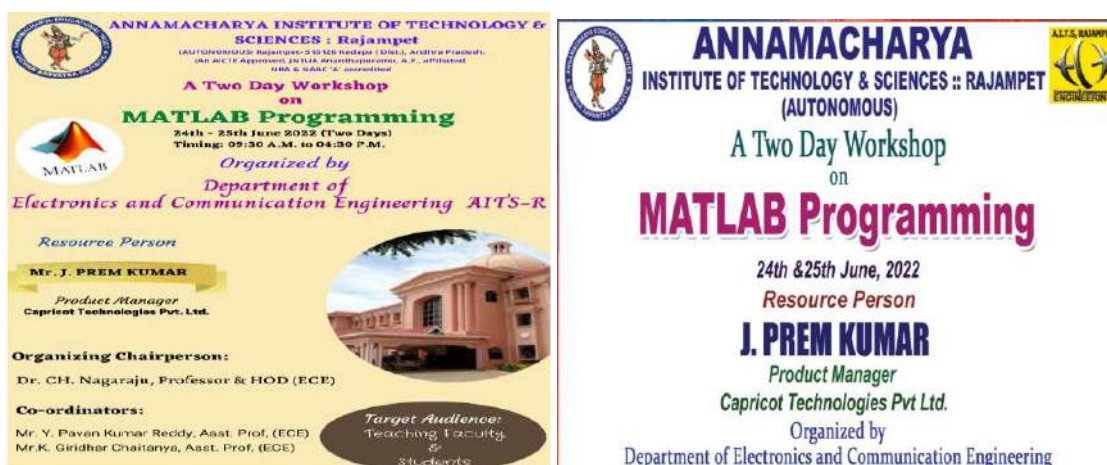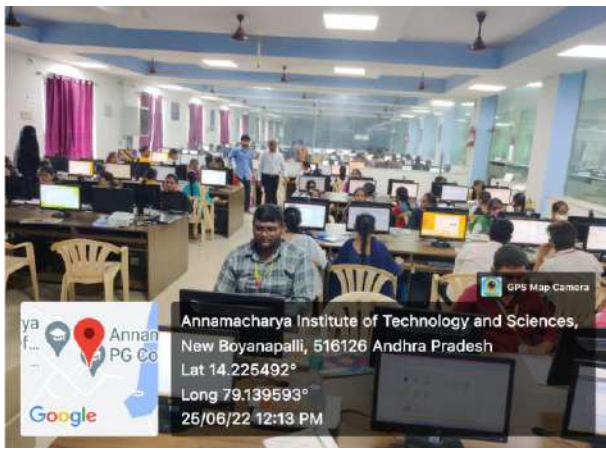
Antrix- ECE Association Events:

- **Jam "** was conducted for 2nd ,3rd, 4th year students of ECE department on 14th February 2022 by ANTRIX ECE Association.

- **Film Quiz** was conducted for 1st,2nd ,3rd, 4th B. Tech ECE students by the department of ECE. This Event was conducted on 17th March 2022 by ANTRIX ECE Association.

- **Cultural Meet** was conducted for 3rd B.Tech ECE students by the department of ECE. This Event was conducted on March 28th 2022 by ANTRIX ECE Association

- **Cultural Meet** was conducted for 4th B.Tech ECE students by the department of ECE. This Event was conducted on April 6th 2022 by ANTRIX ECE Association.

- **FAREWELL DAY"** was conducted by III-B.Tech Students for IV–B.TECH Students. Sri "C.YELLA REDDY" garu, vice chairman ,AITS Rajampet was the chief guest. Dr CH. Nagaraju ,HOD of ECE and all the faculty members of ECE addressed the PG Quadrangle, this event was closed with cultural programs. this event was conducted under "ANTRIX ECE Association".

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