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

CONTENTS

Mission and Vision

PEO's and PO's

Events Organized

Publications

Student Activities

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:

1. **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **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.
3. **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.
4. **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.
5. **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.
6. **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.
7. **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.
8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. **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.
11. **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.
12. **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.
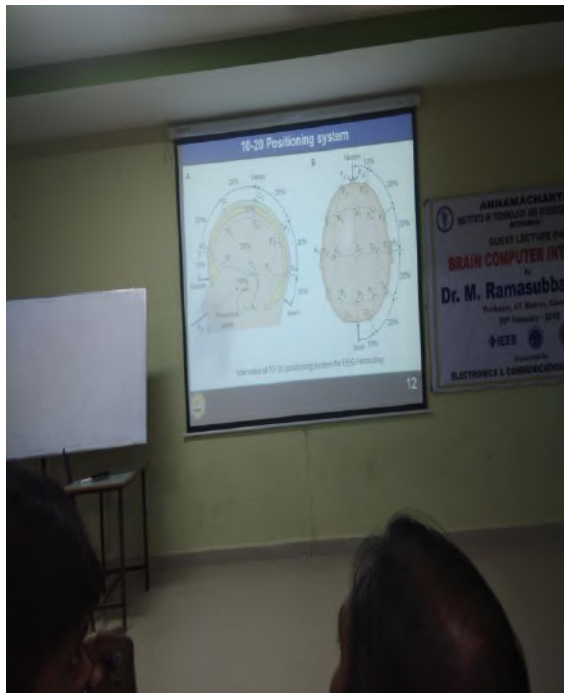
EVENTS ORGANISED

- A Guest Lecture on **"VLSI Signal Processing"** was conducted on 2/1/2018 by the department of ECE for 3rd and 4th year students of ECE. The speaker of this program was Dr.Shaik Rafi Ahamed, Department of Electrical and Electronics Engineering ,IIT Guwahati. This program was conducted under IEEE Young Professionals Hyderabad, ISTE, The Institution of Engineers(India).

- A National Level Technical and Cultural Fest was organized as a part of **" MAHOTSAV"**, Vicennial Celebrations on 7th,8th,9th February 2018. Prof.A.Rama Chandra Reddy, Honorable Vice-chancellor, Yogivemana University, Kadapa was the chief guest of Inaugural function. Dr. D. Vishnu Vardhan, Assistant Professor, JNTUA, Ananthapur was the jury member for ECE Department.

- A Guest Lecture on **"Brain Computer Interface"** was conducted on 9/2/2018 by the department of ECE for 3rd year ECE students. The speaker of this program was Dr. M. Rama Subba Reddy , Biomedical engineering group, Department of Applied Mechanics, IIT Madras, Chennai, India.

- A Two day workshop on **"Industrial Automation System using PLC'S"** was conducted on 10th and 11th march 2018 by the department of ECE for III-BTECH,ECE Students by Mr. SENTHIL KUMAR-Technical head automation, SSK Private limited ,Chennai, Tamilnadu. This program was conducted under IEEE, IEI, ISTE.

- **"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 , Dr Abdul Raheem Dean, professional bodies. This event was conducted under "ANTRIX ECE Association".

- An Invited talk on **"Technology for national security"** was conducted on 21/03/2018 by the department of ECE,EEE and CSE students. The speaker of this program was sir K.V .S. S .Prasad rao, former releaved as ex. officer secretary and chairman of NTRO often on special Duty, National Security Council Secretariat Chief controller (R&D), missiles and strategic systems, DRDO Ministry of defence, new Delhi. Direct research center ,DRDO, Hyderabad Head, Digital processor Group(on board launch vehicles)VSSC ISRO, Trivandrum.

Antrix ECE Association Events:

- "Jam " was conducted for 1st,2nd ,3rd, 4th year students of ECE department on 21st February 2018 by ANTRIX ECE Association.

- "Technical quiz" was conducted for 1st,2nd ,3rd, 4th year students of ECE department on 05th March 2018   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 ,AITSRajampet was the chief guest.

- Dr CH. Nagaraju ,HOD of ECE .Dr Abdul Raheem Dean of professors bodies. all the faculty members of ECE addressed the gallery, this event was closed with cultural programs. this event was conducted under "ANTRIX ECE Association".

- "Jam 2" was conducted for 1st,2nd ,3rd, 4th year students of ECE department on 02th April 2018 by ANTRIX ECE Association.

STUDENT ACTIVITIES

Co –Curricular:

Workshops:

SL. NO.	TITLE	VENUE	DATES	No. of Students Attended
1	IOT using Arduino	MITS college	16 & 17 February 2018	01

Symposium:

S. NO.	TITLE	VENUE	DATES	No. of Students Attended
1	Mahotsav	AITS, Rajampet	7, 8 & 9th February 2018	13

Achievements:

S. No.	Name of the Student	Seminar/Symposium	Place & Date	Award
1	S. Shaheena	Paper presentation	Annamacharya Institute of Technology &Sciences(Autonomous), Rajampet,7th, 8th and 9thFebruary 2018.	1st prize

FACULTY PUBLICATIONS

Journals:

- **N. Baladastagiri**, K. Hari Kishore, "A 14 bit 10KS/s Power efficient 65nm SAR ADC for cardiac implantable medical devices" International Journal of Engineering & Technology, Volume:07,Issue: No. 2.8, January 2018, Pg.No:30-34, **ISSN: 2227-524X**, (**SCOPUS)**

- **N.Baladastagiri**, K.HariKishore, "Design of Dynamic Latched Comparator with Reduced Kickback Noise" International Journal of Pure and Applied Mathematics, Special issue, Volume:118,Issue: No. 17, January 2018, Pg.No:289-298, **ISSN: 1311-8080 (printed version); ISSN: 1314-3395 (on-line version),SCOPUS**

- **CH. Nagaraju**, Dr.Anil Kumar Sharma,Dr.M.V.Subramanyam, "Reduction of PAPR In MIMO-OFDM Using Adaptive SLM And PTS Technique" International Journal of Pure and Applied Mathematics, Special issue, Volume:118,Issue: No. 17, January 2018, Pg.No:355-373, **ISSN: 1311-8080 (printed version); ISSN: 1314-3395 (on-line version),SCOPUS**

- **P. Brundavani,** Dr. D. Vishnu vardhan, S. Jyothsna**,** G. Likitha " Comparison of Neural Signals for ADC in neural Implants" International Journal of Engineering and Techniques, Special Issue, April 2018, Pg.No:1-6, **ISSN: 2395-1303 (UGC)**

- **P. Brundavani,** E. Naga Anitha, P.Nandini, O.Ruchita**,** " Energy Optimization Based on PLC Automation" International Journal of Engineering and Techniques, Special Issue, April 2018, Pg.No:1-6, **ISSN: 2395-1303 (UGC)**

- **P. Brundavani,** Dr. D. Vishnu vardhan, P.Mahesh, R.Suresh**,** " Design and Analysis of 16-Bit RISC Processor Using Low Power Pipelines" International Journal of Engineering and Techniques, Special Issue, April 2018, Pg.No:1-6, **ISSN: 2395-1303 (UGC)**

- **S. Sivakumar,** K.Venkata Pallavi, V.Tharun, K.Yashoda**,** " War Field Spy Robot Using Night Vision Technology" International Journal of Engineering and Techniques, Special Issue, April 2018, Pg.No:1-6, **ISSN: 2395-1303 (UGC)**

- **B.Prasanthi,** K.Supriya, B.Sravani, V.Shanthi**,** " Things Detector Using Embedded Systems" International Journal of Engineering and Techniques, Special Issue, April 2018, Pg.No:1-6, **ISSN: 2395-1303 (UGC)**

- **P.Syamaladevi,** K.Keasava Reddy, A.Anitha, Y.Mahesh**,** " Design and sSimulation of Status Register using Multibit Flipflop for UART Application" International Journal of Engineering and Techniques, Special Issue, April 2018, Pg.No:1-6, **ISSN: 2395-1303 (UGC)**

- **A.Priyanka,** G.Sahithi, Sneha, K.Ramanjaneya Reddy " Smart E-Bill Generation Using PLC" International Journal of Engineering and Techniques, Special Issue, April 2018, Pg.No:1-6, **ISSN: 2395-1303 (UGC)**

- **B.Lakshmi Prasanna,** P.Kashi Viswanath Reddy, V.Chenna Krishna Reddy, S.GAnga Devi " Automatic White Board Cleaner Using Arduino Uno" International Journal of Engineering and Techniques, Special Issue, April 2018, Pg.No:1-6, **ISSN: 2395-1303 (UGC)**

- **B.Lakshmi Prasanna,** Shaik Rajeena " Smart Waste Management Based on IOT" International Journal of Engineering and Techniques, Special Issue, April 2018, Pg.No:1-6, **ISSN: 2395-1303 (UGC)**

- **K.Sreenivasa Rao**, C.Madhuri "IOT Applications on Secure Smart Shopping System" International Journal of Engineering and Techniques, Special Issue, April 2018, Pg.No:1-7, **ISSN: 2395-1303 (UGC)**

- Venkata Subbaiah.B, Venkata Sreekanth Reddy.E, Abhishek.K, **Pavan Kumar Reddy.Y**, "An IOT Based Smart Industry Monitoring System by Using Raspberry Pi" International Journal of Engineering and Techniques, Special Issue, April 2018, Pg.No:1-09, **ISSN: 2395-1303 (UGC)**

- **Pavan Kumar Reddy.Y**, Vaishnavi.M, Sree Pavani.G, Venkata Subbaiah.B "An IOT Based Real Time Weather Monitoring System by Using Raspberry PI" International Journal of Engineering and Techniques, Special Issue, April 2018, Pg.No:1-10, **ISSN: 2395-1303 (UGC)**

- **K.Naganarasaiah Goud**, B.Siva, M.SaiRadhika,C.Mounika "Biometric System for Railway Ticketing" International Journal of Engineering and Techniques, Special Issue, April 2018, Pg.No:1-4, **ISSN: 2395-1303 (UGC)**

- **K.Naganarasaiah Goud**, Mallem Nagamani "Design and Implementation of Indoor Environment Monitoring and Control System" International Journal of Engineering and Techniques, Special Issue, April 2018, Pg.No:1-5, **ISSN: 2395-1303 (UGC)**

- **K.Ramanjeneyulu**, G.Naveen Kishore "Diagnosis of Neoplasm Using Fuzzy Logic and GMRF" International Journal of Engineering and Techniques, Special Issue, April 2018, Pg.No:1-5, **ISSN: 2395-1303 (UGC)**

- **M.Venkata Dasu**, Dr.P.Subbaiah "Blood Cell Segmentation of MicroScopic Images Using K-Means Clustering Algorithm with SIFT" International Journal of Engineering and Techniques, Special Issue, April 2018, Pg.No:1-5, **ISSN: 2395-1303 (UGC)**

- **P.Sukumar**, Dr.T.Kavya, R.Vijay "Real Time Streamlined Multi Tasking Technique for Soft and Hard Deadline Tasks" International Journal of Engineering and Techniques, Special Issue, April 2018, Pg.No:1-5, **ISSN: 2395-1303 (UGC)**

- **P.Sukumar**, Dr.T.Kavya, A.Deepika, V.Jashnavi "Real Time Soil Fertility Analyzer Using IoT" International Journal of Engineering and Techniques, Special Issue, April 2018, Pg.No:1-5, **ISSN: 2395-1303 (UGC)**

- Chaitra.M, Ahhila Reddy.K, Reddy Sahithi, **N.Baladastagiri** "CMOS Implementation of Different Reversible Logic Gates" International Journal of Engineering and Techniques, Special Issue, April 2018, Pg.No:1-6, **ISSN: 2395-1303 (UGC)**

- **N.Baladastagiri**, K.Riyazuddin,G.Vasudha,P.Venkata Ravikumar "Implementation of Latched Comparators in Cardiac IMDs" International Journal of Engineering and Techniques, Special Issue, April 2018, Pg.No:1-7, **ISSN: 2395-1303 (UGC)**

- A.Himachandrika, P.Kowsalya, P.Anusha, S.Ayeshasidikha, **N.Baladastagiri** "Design of a Power Efiicient Multiplier Using Reversible Logic Gates" International Journal of Engineering and Techniques, Special Issue, April 2018, Pg.No:1-4, **ISSN: 2395-1303 (UGC)**

- **L.Sivayamini**, M.Bindusree, B.Harichnadana, S.Ayeshasidikha "An Optimized Image Fusion Technique for Neurosurgery" International Journal of Engineering and Techniques, Special Issue, April 2018, Pg.No:1-5, **ISSN: 2395-1303 (UGC)**

- **C.Venkatesh,** G.I.Lakshmi Prasanna**, L.Sivayamini**, "Design of Smart Bio-Metric Anti-Theft Protection System for Vehicles" International Journal of Engineering and Techniques, Special Issue, April 2018, Pg.No:1-5, **ISSN: 2395-1303 (UGC)**

- **L.Sivayamini**, P.Bhargav, K.Bhavya, D.Himasree "Anti Theft Protection for ATM Banking Using IoT" International Journal of Engineering and Techniques, Special Issue, April 2018, Pg.No:1-8, **ISSN: 2395-1303 (UGC)**

- **C.Venkatesh**, A.Chandana, T.Kesava charulu, C.Laharika "A Smart & Autonomous Wireless System for Precision Agriculture Using IoT" International Journal of Engineering and Techniques, Special Issue, April 2018, Pg.No:1-7, **ISSN: 2395-1303 (UGC)**

- **S.Nazeer Hussain**, G.Venkata Supriya, V.Venkata Nagendra Babu,S.Sowjanya "Optimization of Floor-planning in VLSI Using Bio-Inspired Algorithm" International Journal of Engineering and Techniques, Special Issue, April 2018, Pg.No:1-6, **ISSN: 2395-1303 (UGC)**

- M.Hymavathi, **Dr.K.Riyazuddin**, Dr.D.Vishnuvardhan,**N.Baladastagiri,** "IoT Based Security System for Women and Children Safety" International Journal of Engineering and Techniques, Special Issue, April 2018, Pg.No:1-6, **ISSN: 2395-1303 (UGC)**

- **Dr.K.Riyazuddin**, P.Chandrakala, M.Anusha, Aswini, "An Autonomous Wireless Implementation of IoT Based Health Care Applications" International Journal of Engineering and Techniques, Special Issue, April 2018, Pg.No:1-6, **ISSN: 2395-1303 (UGC)**

- **Dr.B.Abdul Raheem**, B.Anitha, S.Bharath Kumar, S.Khadeer Suhail, "Smart Car Parking Information System" International Journal of Engineering and Techniques, Special Issue, April 2018, Pg.No:1-6, **ISSN: 2395-1303 (UGC)**

- **Dr.B.Abdul Raheem**, S.Swetha, M.Varalakshmi, S.Venkata Subba Reddy, "Automatic Guidance System for Office/High rise Buildings" International Journal of Engineering and Techniques, Special Issue, April 2018, Pg.No:1-6, **ISSN: 2395-1303 (UGC)**

- **M. Venkata Dasu**, Dr.P.Subbaiah, " Leukemia Detection in Microscopic Imagery using Optimization Algorithm", International Journal of Engineering & Technology,Volume.7, Issue.2.24, 2018,Pg.No:299-303, **ISSN: 2227-524X**, (**SCOPUS**)

- **M.Venkata Dasu**, Dr.P.Subbaiah," A proposal on automatic segmentation and detection of malignant leucocytes in microscopic blood smear" International Journal of basic and applied research, ,volume:8 ,Issue No: 6, June 2018, Page No.:.678-684, **ISSN:2249-3352 (UGC)**

International Conferences:

- **G. Thirumalaiah** "Dynamic Object Indexing Technique for Distortionless Video Synopsis", International Conference on ISMAC in computational Vision and Bio-Engineering (ISMAC-IoT, Social, Mobile, Analytics and Cloud), organized by SCAD Institute of Technology, 16th -17th May 2018,Palladam, Tamil Nadu, India.

Invited Experts:

S.NO	FACULTY	ROLES & RESPONSI-BILITIES	EVENT	INVITED INSTITUTION/ORG ANISATION	DATE
1	Dr.CH.Nagaraju	Judge	Siddharth Quest-2K18 (National level Symposium)	Siddharth Institute of Engineering & Technology, Puttur	17th February 2018

Patent:

S.NO	Name of Applicant(s)	Name of other Inventor(s)	Title of the Invention	Application No	Date of Filing	Publication Date
1	Dr.B.Abdul Raheem Dr.Fahimuddin Shaik	Dr.K.Riyazuddin N.Baladastagiri	Method for medical image analysis	201841004767	08/02/2018	16/02/2018

Editorial Team

Editor-in-Chief

Dr.Ch. Nagaraju
Professor & HOD

Guest Editor

Mr. B. Abdul Rahim
Mr. Fahimuddin. Shaik

Editors

Mr. G. Sudha Kiran
Mr. G. Obulesu