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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:*

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 Two day Workshop on “**VLSI DESIGN METHODOLOGY-2K17**” Conducted on 7<sup>th</sup> and 8<sup>th</sup> august 2017 by Y. Avinash ,principal consultant, Infosys-LTD, Hyderabad.



- A Two day Workshop on “**Introduction to MATLAB**” Conducted on 17<sup>th</sup> and 18<sup>th</sup> august 2017 by Mr. P. Vikram Kumar, MATLAB Trainer, Hyderabad



- On the occasion of “**National Sports Day**” (29/08/2017) celebrations Department of ECE has conducted various sports like Shuttle, Ball Badminton, Throw ball, Handball, volleyball for students and faculty. Dr. C.H.Nagaraju -Head of the dept., Dr. B. Abdul Raheem -Dean, Mr. K. Prasad -Sports incharge.





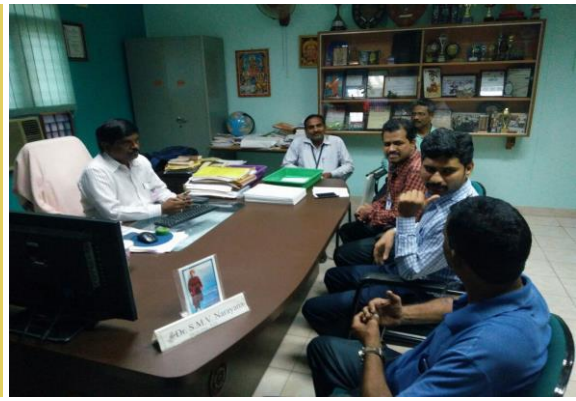
- A 3-Day workshop on “**Embedded System Design using Microcontrollers**” was conducted on 12<sup>th</sup>, 13<sup>th</sup>,14<sup>th</sup> September 2017 by APSSDC (Andhra Pradesh state skill development corporation).The trainers of this workshop are Mr. S. Murali Krushna, Mr. B. Nagaraju, Mr. Siva from Vijayawada.



- A guest lecture on “**Rapid Prototyping using SIMULINK**” has been arranged for IV B.Tech students of ECE Department on 5/10/2017.DR.SAK JILANI Professor, ECE Dept., MITS, Madanapalli.



- A Two days workshop on “**Antenna Design Fabrication and Link Deployment**” was conducted on 13<sup>th</sup>,14<sup>th</sup> October 2017 by department of ECE for 3<sup>rd</sup> B. Tech ECE students . The resource persons are Mr Anirudha, S kulkarni, R&D Analyst ,MUMLAB, Mumbai and Mr Mukundhar Bhople.



- “An Invited Talk on **“Shaping up Career”**” was conducted on 28/10/2017 by the Department of ECE. The speaker of this program was Mr. Srinivas Narayan Bairi, senior director engineering, Intel corporation, Former vice president and India R&D Head, Le Eco Former director, Qualcomm, India. In the forenoon session he addressed I,II,III,IV B. Tech students of all the departments. At the end of the program Mr.S rinivas distributed the prizes for the winners of Student model design contest “SDMC-2K17” and congratulated them.



- A Guest Lecture on **“Microwave Wave Applications in Defence and Civil Sector”**” was conducted on 16/12/2017 by the department of ECE for 3<sup>rd</sup> BTECH ECE Students .The Speaker of this program was Sri. P. Raghavendra Rao, Scientist-G, Associate Director, DRDO, Hyderabad and Vice Chairman IDST Hyderabad. This Event was conducted under ISTE.





### Antrix ECE Association Events:

- "Anthyakshari" competition was conducted for II,III,IV year students on 3<sup>rd</sup> August 2017. This event was conducted by "ANTRIX" ECE association.
- Debate was conducted on "**Industrial Revolution**" for II, III, IV year students on 17<sup>th</sup> August 2017. This event was conducted by "ANTRIX" ECE association.
- On the occasion of "**Engineers Day**" (15/09/17) Celebrations Antrix-ECE association was conducted a debate on "**Which is the best-Past or Present Engineer?**" for II,III,IV Year students. In addition to this Technical Quiz Competition was conducted.



- "Debate" ( Final Continuation from 17/08/17) was conducted for II,III,IV year students on 15<sup>th</sup> September 2017. This event was conducted by "ANTRIX" ECE association.
- "Debate" was conducted for II,III,IV year students on 17<sup>th</sup> September 2017. This event was conducted by "ANTRIX" ECE association.
- A Two days workshop on "**PCB DESIGN**" was conducted on 14<sup>th</sup>,15<sup>th</sup> October 2017 by department of ECE for 2<sup>nd</sup> BTECH ECE students. N. Mohammed Asif Assistant Manager ,Innowitech Solutions ,Bangalore was the chief guest of this programme. Resource persons of this program are R.Subhan Tilak Basha, R.Sudha Rani , Innowitech Solutions ,Bangalore. This work shop was conducted under IEEE young professionals, IEE SB AITS, ISTE, IEL, ANTRIX ECE.



- **Fresher's Day Celebrations** was conducted on 14<sup>th</sup> September 2017. The chief guest of this event was Mr. V. Hari Krishna, sub divisional officer, BSNL, Rajampet. Dr.S.M.V. Narayana Principal, Dr. C.H. Nagaraju HOD ECE, Dr. B. Abdul Raheem Dean, Dr. P. Lakshmi Devi addressed the first year students and gave a valuable speeches. This event was conducted by Antrix ECE Association.





- **"Singing Competition"** was conducted for 1<sup>st</sup>,2<sup>nd</sup> ,3<sup>rd</sup>, 4<sup>th</sup> year students of ECE department on 23<sup>rd</sup> October 2017 by ANTRIX ECE Association.
- **Mime, Mono action, Skit Competitions** was conducted for 1<sup>st</sup>,2<sup>nd</sup> ,3<sup>rd</sup>, 4<sup>th</sup> year students of ECE department on 24<sup>th</sup> October 2017 by ANTRIX ECE Association.
- **Anthyakshari Competition** was conducted for 1<sup>st</sup>,2<sup>nd</sup> ,3<sup>rd</sup>, 4<sup>th</sup> year students of ECE department on 25<sup>th</sup> October 2017 by ANTRIX ECE Association.
- **Tug of War Competition** was conducted for 1<sup>st</sup>,2<sup>nd</sup> ,3<sup>rd</sup>, 4<sup>th</sup> year students of ECE department on 23<sup>rd</sup> October 2017 by ANTRIX ECE Association.
- Student model design contest **"SDMC-2K17"** was conducted on 26/10/2017 for 1<sup>st</sup>,2<sup>nd</sup> ,3<sup>rd</sup>, 4<sup>th</sup> BTECH ECE students by the department of ECE. Mr S.M.V Narayana, principal, AITS, Rajampet was the chief guest of the program. Students designed around 33 models in the contest. Mr. Srinivas Narayan Bairi, senior director engineering, Intel corporation, Former vice president and India R&D Head, LeEco Former director, Qualcomm, India distributed the prizes for the winners. This event was conducted under IEEE Young professionals, IEE SB AITS,ISTE,ANTRIX ECE Association.







- **Film Quiz** was conducted for 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup> B. Tech ECE students by the department of ECE. This Event was conducted on 27<sup>th</sup> October 2017 by ANTRIX ECE Association.
- **Treasure Hunt** was conducted for 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup> B. Tech ECE students by the department of ECE in the college campus. This Event was conducted on 28<sup>th</sup> October 2017 by ANTRIX ECE Association.
- **Dance solo** was conducted for 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup> B.Tech ECE students by the department of ECE. This Event was conducted on 30<sup>th</sup> October 2017 by ANTRIX ECE Association.
- **Dance Group Competition** was conducted for 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup> B. Tech ECE students by the department of ECE. This Event was conducted on 31<sup>st</sup> October 2017 by ANTRIX ECE Association.

## STUDENT ACTIVITIES

### Co –Curricular:

#### Achievements:

S. No	Name of the Student	Seminar/ Symposium	Place & Date	Award
1	P. Mahesh	Paper presentation	Vaagdevi Institute of Technology & Science, Proddatur, 23 <sup>rd</sup> September 2017	Participation Certification
2	R. Suresh	Paper presentation	Vaagdevi Institute of Technology & Science, Proddatur, 23 <sup>rd</sup> September 2017	Participation Certification
3	D. Tarunum Sulthana	Paper Presentation	SK University, Anantapuram, 27 <sup>th</sup> September, 2017	I Prize
4	B. Jhansi Rani	Study/ Working Model	Annamacharya Institute of Technology & Sciences, Rajampet, 26 <sup>th</sup> October, 2017	Participation Certificate
5	B. Tharanum Sulthana	Study/ Working Model	Annamacharya Institute of Technology & Sciences, Rajampet, 26 <sup>th</sup> October, 2017	Participation Certificate

#### Extra-Curricular:

##### Sports:

S. No	Name of the Student	Event	Place & Date	Award
1	G Naresh	Volleyball	Nationals & 9/17/2017	Participated
2	S Sada siva	Volleyball	Nationals & 9/17/2017	Participated
3	S Saleem peera	Volleyball	Nationals & 9/17/2017	Participated
4	P Sai adithya	Volleyball	Nationals & 9/17/2017	Participated
5	N Teja	Basket ball	Nationals & 9/17/2017	Participated
6	K Narasimha reddy	Basket ball	Nationals & 9/17/2017	Participated
7	G Venkata sai	Basket ball	Nationals & 9/17/2017	Participated
8	B Yashwanth nikhil	Handball	Nationals & 9/17/2017	Participated
9	Mani kumar reddy	Kabbadi	Nationals & 9/17/2017	Participated
10	Linga raju	Handball	Nationals & 9/17/2017	Participated



11	B Yashwanth nikhil	Handball	Nationals & 9/17/2017	Participated
12	G Venkata sai	Handball	Nationals & 9/17/2017	Participated
13	T Lohith	Table tennis	Nationals & 9/17/2017	1 <sup>st</sup> Position
14	N Sreenivasulu	Table tennis	Nationals & 9/17/2017	1 <sup>st</sup> Position
15	Linga raju	Running race	Nationals & 9/17/2017	1 <sup>st</sup> Position
16	Linga raju	Disc throw	Nationals & 9/17/2017	2 <sup>nd</sup> Position
17	V Chaitanya kumar reddy	Javellen throw	Nationals & 9/17/2017	2 <sup>nd</sup> Position
18	Chaitanya lahari	Throw ball	Nationals & 9/17/2017	1 <sup>st</sup> Position
19	B Harisha	Throw ball	Nationals & 9/17/2017	1 <sup>st</sup> Position
20	M Nikitha	Throw ball	Nationals & 9/17/2017	1 <sup>st</sup> Position
21	V Sravani	Shuttle badminton	Nationals & 9/17/2017	2 <sup>nd</sup> Position
22	K Rajitha	Shuttle badminton	Nationals & 9/17/2017	2 <sup>nd</sup> Position
23	P. Naga mohan reddy	Chess	Nationals & 9/17/2017	Participated

## **FACULTY PUBLICATIONS**

### **Journals:**

- **P. Sivakalyani, G.Lahari**, "Development of Automated Diagnostic Software to Validate for SOC-Based Hardware IPs", International Journal of Innovative Research in Technology (IJIRT), Volume:4, Issue 2, July 2017, Pg.No:316-320, ISSN : 2349-6002,
- **Mr.G.Tirumalaiah**, Kandula Vinay Kumar, "Industrial Process Tracking Through Wireless Communication", International Journal of Innovative Research in Technology (IJIRT), Volume:4, Issue 2, July 2017, Pg.No:185-190, ISSN : 2349-6002,
- **Mrs.B.Lakshmi Prasanna**, M.Madhana mohan Reddy “ Automatic Real-Time Accident Avoiding System Using Controller Area Network ” International Journal of Innovative Research in Technology, Volume 4, Issue : 2, July 2017, Page No.:293-297, ISSN : 2349-6002.
- **K.Riyazuddin**, Dr.Anil Kumar Sharma "Computational Development of an Adaptive Model for LTE with OFDM", Journal of Advanced Research in Dynamical and Control Systems, Special Issue on Trends and Future in Engineering, Vol. 9, Special issue :6, 2017, Page No. :1829-1842, ISSN : 1943-023X, (**SCOPUS**)
- **Mr.Y.Pavan Kumar Reddy, Assistant Professor, M.Tech** ,“ Application of higher order Image co-segmentation in Medical Images” International journal of Research, Volume:04, Issue No. 09, August 2017, pg No.: 2374-2382, p-ISSN : 2348-6848, e-ISSN : 2348-795X. (<https://edupediapublications.org/journals>)
- **P.Syamala Devi, B.Balaji**, “The Design and Simulation of Split Radix FFT Processor using Multi-Bit Flip Flop for Power Reduction” International Journal for Scientific Research & Development, Volume : 5, Issue 06, August 2017, Page No.: 343-346, ISSN(online) : 2321-0613
- **C.Venkatesh, K.Bhagya Lakshmi, L.Sivayamini** “Detection of Diverse Tumefactions in Medial images by Various Cumulation Methods” International Research Journal of Engineering and Technology (IRJET) , Volume: 04, Issue: 08 , Aug -2017, e-ISSN: 2395-0056, p-ISSN: 2395-0072, [www.irjet.net](http://www.irjet.net) (**UGC**)
- **Fahimuddin Shaik**, Vinit Kumar Gunjan, Amith Kashyap, Amit Kumar, "An Interactive Computer Aided System for Detection and Analysis of Pulmonary TB" Helix Journal, Vol.7, Issue.5, September 2017, Pg.No:2129-2132, ISSN 2319-5592, [**Web of Science** ]



- **P.Brundavani**, P.Sai Krishna, "Design and Implementation of Low power 16-Bit ALU Using MGDl Technique", International Journal of VLSI System Design and Communication Systems, Volume.5, Issue.10, October 2017, Pg.No:0954-0959, **ISSN: 2322-0929**
- **S.Nazeer Hussain**, K.Hari Kishore, "Performance evaluation of heuristic Algorithms in floor planning for ASIC design", International Journal of Engineering & Technology, Volume.7, Issue.1.5, 12<sup>th</sup> December 2017, Pg.No:56-61, **ISSN: 2227-524X, (SCOPUS)**
- **C.Venkatesh**, Polaiiah Bojja, "An Exploration of Optimization Techniques for Detection of Lung Cancer in CT images", International Journal of Pure and Applied Mathematics Volume:117, Special IssueNo.:18, December 2017, Pg.No:379-384, **ISSN No(Online): 1314-3395 , ISSN No(Printed): 1311-8080, SCOPUS**

**International Conferences:**

- **K.Riyazuddin**, Dr.Anil Kumar Sharma ,Dr.PVN Reddy, "Performance Evaluation of LTE OFDM System Using an Adaptive Modulation Scheme in Indoor and Outdoor Environment", IEEE International Conference on Recent Trend in Electrical, Electronics & Computing Technologies, 30<sup>th</sup> -31<sup>st</sup> July 2017, SR Engineering College, Warangal, Telangana, ISBN:978-1-5090-6266-9, **DOI: 10.1109/ICRTEECT.2017.39**
- **L.Sivayamini, C.Venkatesh, S.Fahimuddin, N.Thanusha, S,Shaheer, P.Sujanasree**, "A Novel Optimization for Detection of Foot Ulcers on Infrared Images", IEEE International Conference on Recent Trend in Electrical, Electronics & Computing Technologies, 30<sup>th</sup> -31<sup>st</sup> July 2017, SR Engineering College, Warangal, Telangana, ISBN:978-1-5090-6266-9, **DOI: 10.1109/ICRTEECT.2017.36**
- **J.Chinna Babu, C.Chinnapu reddy, M.N.Giri prasad** " VLSI Implementation of decoding algorithms using EG-LDPC codes" , 7<sup>th</sup> International Conference on Advances in Computing & Communications (ICACC-2017), 22<sup>nd</sup> -24<sup>th</sup> August 2017, Cochin India, **published by Elsevier B.V(ScienceDirect), DOI:10.1016/j.procs.2017.09.119**
- **Nadhindla Baladastagiri, Shaik Fahimuddin**, Kakarla Hari Kishore ,Vinit Kumar Gunjan " Design of a Low power Low-Kickback noise Latched Dynamic Comparator for Cardiac Implantable Medical device Applications" , 2<sup>nd</sup> International Conference on Micro-electronics, electromagnetic and Telecommunications, **lecture notes on electrical engineering**, Volume:434, 7<sup>th</sup> September 2017, **DOI: 10.1007/978-981-10-4280-5-67.**

- **J.Chinna Babu**, C.Chinnapu reddy, M.N.Giri prasad “ Generation and Decoding of non-binary LDPC codes using MSA Decoding Algorithm” , 2<sup>nd</sup> International Conference on Micro-electronics, electromagnetic and Telecommunications, **lecture notes** on electrical engineering, Volume:434, 7<sup>th</sup> September 2017, **DOI: 10.1007/978-981-10-4280-5-61**.
- **K.Riyazuddin**, Dr.Anil Kumar Sharma ,Dr.PVN Reddy, “Analyzing the behavior of OFDM parameters in Different LTE Environment”, IEEE International Conference on Power, Control, Signals and Instrumentation Engineering (ICPCSI), 21<sup>st</sup> -22<sup>nd</sup> September 2017,Chennai,India,
- **J.Chinna Babu**, C.Chinnapu reddy,M.N.Giri prasad “ Comparison of various decoding algorithms for EG-low density parity check codes”, Advances in Systems, Control and Automation, **Lecture notes** on electrical engineering,Volume:442, Springer Nature Singapore Pte Ltd. 2018, 12<sup>th</sup> December 2017,Pg.No:605,**DOI:10.1007/978-981-10-4762-6-58**.

**National Conferences:**

- **Dr.B. Abdul Rahim**, “Embedded Systems and Hardware Software Co-Design, “UGC Sponsored National Conference on Academia Digital Transformation Challenges & opportunities (NCADT -17), 15<sup>th</sup> & 16<sup>th</sup> December 2017, Pg.No:06, SSBN Degree College, Ananthapuramu, Andhra Pradesh.

**Invited Experts:**

S.NO	FACULTY	ROLES & RESPONSIBILITIES	EVENT	INVITED INSTITUTION/ORGANISATION	DATE
1	Prof. B. Abdul Rahim	Technical Program Committee Member	IEEE International Conference on Recent Trends in Electrical, Electronics & Computing Technologies, (ICRTEECT-2017)	SR Engineering College, Warangal, Telangana State	To be held on 30 <sup>th</sup> & 31 <sup>st</sup> July 2017
2	Mr. N. Bala Dastagiri	Reviewer	IEEE International Conference on Recent Trends in Electrical, Electronics & Computing Technologies, ICRTEECT-2017	SR Engineering College, Warangal, Telangana State	To be held on 30 <sup>th</sup> & 31 <sup>st</sup> July 2017



3	Mr. C. Venkatesh	Reviewer	IEEE International Conference on Recent Trends in Electrical, Electronics & Computing Technologies, ICRTEECT-2017	SR Engineering College, Warangal, Telangana State	To be held on 30 <sup>th</sup> & 31 <sup>st</sup> July 2017
4	Prof. B. Abdul Rahim	Session Chair	1 <sup>st</sup> International Conference on Advanced Technologies in Engineering, Management & Sciences (ICATEMS-17)	Golden Valley Integrated Campus, Madanapalle	16 <sup>th</sup> & 17 <sup>th</sup> November 2017
5	Prof. B. Abdul Rahim	Invited Talk	National Conference on Academia Digital Transformation (NCADT-2017)	SSBN Degree College, Ananthapuramu	15 <sup>th</sup> & 16 <sup>th</sup> December 2017

**Text Books Authored and Published by Faculty:**

S. No	Author	Title of the Book/Chapter book	Publisher	ISBN No.	Year
1	Fahimuddin Shaik	Computer Vision Techniques in Medical Imaging	Educreation Publishing	ISBN: 978-1-5457-0834-7.	October 2017
2	C.Venkatesh Dr.Fahimuddin Shaik	Image Processing Simplified	VSRD Academic Publishing	ISBN:978-93-86258-76-2	October 2017
3	Mr.N.Bala Dastagiri Mr.S.Nazeer Hussain	An Experimental Approach To VLSI System Design	VSRD Academic Publishing	978-93-86258-85-4	December 2017
4	Dr.K.Riyazuddin Dr. B.Abdul Rahim Dr.Fahimuddin Shaik	Evaluating OFDM With LTE	VSRD Academic Publishing	978-93-86258-84-7	December 2017

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