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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

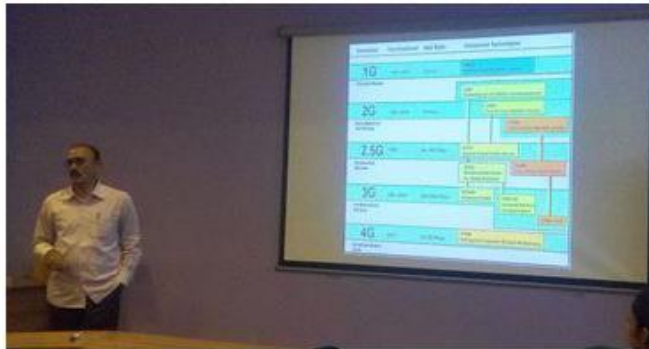
- A Two-day workshop on “**Industrial Automation Systems- 2K17**” has been organized by E.C.E department for III B. Tech ECE students on January 3rd& 4th 2017. The Resource person of this event was **Mr. B. Senthil Kumar**, Technical Head, SSK Delta Engineering Pvt, Ltd., Chennai and his team. This workshop was partially sponsored by IEI Students’chapter A.I.T.S.



- A Two-Week ISTE STTP on “**CMOS, Mixed Signal and Radio Frequency VLSI Design**” has been conducted by IIT Kharagpur from 30/01/2017 to 04/02/2017. Our Institute is one of the remote centers who hosted the participators from all over the state. The staff members of E.C.E Department in our Institute and delegates from other Institutions also participated. Prof. T. K. Bhattacharya, Prof. Indrajit Chakrabarti, Dr. Mrigank Sharad of IIT Kharagpur were the resource persons.



- A Guest lecture on “**Mobile Communications**” has been arranged for the final year students of E.C.E department on 01-02-2017. **Dr. P. V. Ramana**, Head, Department of E.C.E, Sri Vidya Niketan Engineering College, Tirupathi. The Resource person of this event was **Dr. P.V.Ramana**, Head, Department of E.C.E, Sri VidyaNiketan Engineering College, Tirupathi.



- A Guest lecture on “**Microprocessors and Microcontrollers**” has been arranged for the B. Tech students of E.C.E department on 27-02-2017. **Dr. M. N. Giri Prasad**, Professor, Department of E.C.E, JNTU College of Engineering, Ananthapuramu has delivered the lecture which includes the basic concepts of Microprocessors and Microcontrollers. He also stressed on the advancements in this area.



- A Guest lecture on “**Industrial Automation**” has been arranged for the IV B.Tech students of E.C.E department on 02-03-2017. **Mr. B. Senthil Kumar** ,Technical Head, SSK Delta Design Engg. Ltd., Chennai has delivered the lecture on need of automation in industry, different tools for automation and Role of Programmable Logic Controllers in industries.



- A Guest lecture on “**Design for Testability**” has been arranged for the IV B.Tech students of E.C.E department on 16-03-2017. Mr. Y. Avinash, Project Manager, CYIENT Ltd., Hyderabad has started his lecture by touching the basics of digital design and it went on programming for digital circuits. He also given a list of companies which actually seeking the engineers for developing the most advanced and reliable devices.



- A Guest lecture on “**Internship Opportunities in VLSI based organizations**” has been arranged by the department of E.C.E for III B.Tech E.C.E students on 16-03-2017. **Mr.Y.Avinash**, Project Manager, CYIENT Ltd., Hyderabad has started the lecture with the advantages of having additional knowledge apart from the curriculum. Then he moved to the different areas of our discipline which has lot of scope to enhance the knowledge.



- A "National Level Technical symposium ATM-17" has been conducted in our Institute on 20th March 2017. Dr. A. Ananda Rao, Director, Academics & Planning, JNTUA, Ananthapuram was the chief guest for the inaugural function. Dr.D. Vishnu Vardhan, Assistant Professor from JNTUCE, Kalikiri, was the jury member for ECE department.



STUDENT ACTIVITIES

Co –Curricular:

Achievements:

S. No	Name of the Student	Seminar/ Symposium	Place & Date	Award
1	K.V.Pallavi	Paper presentation	S.V. College of Engineering S.V.Engineering College for Women,Tirupathi,22nd & 23rd February 2017	I Prize
2	M.Sushma	Paper Presentation	S.V. College of Engineering S.V.Engineering College for Women,Tirupathi,22nd & 23rd February 2017	II Prize
3	R.Suresh	Model Presentation	KSRM College of Engineering, Kadapa, 24th March,2017	Winner
4	P.Mahesh	National Level Tech Fest	Y.S.R. Engineering College of Yogi Vemana University,Proddatur,25th March,2017	3rd Prize

Extra-Curricular:

Sports:

S. No	Name of the Student	Event	Place & Date	Award
1	M. Teju	Throw ball	National & 13.03.2017	2nd position
2	J. Swathi	Tennicoit	National & 13.03.2017	1st position
3	R. Sai Krishna Pavan	Table tennis	National & 13.03.2017	2nd position
4	S.Swathi	Ball badminton	National & 13.03.2017	1st position
5	A.Ravindra Reddy	Chess	National & 13.03.2017	1st position
6	O SUBRAMANYAM	Basket ball	National & 13.03.2017	2nd Position
7	S SIRAZ	Cricket	National & 13.03.2017	2nd Position
8	G KARTHIK	Cricket	National & 13.03.2017	2nd Position
9	NARESH	Volley ball	National & 13.03.2017	2nd Position
10	Beerappa	Running race	National & 13.03.2017	2nd Position

FACULTY PUBLICATIONS

National Conferences:

- **V.Hymavathi,A,Priyanka, Fahimuddin.Shaik,Vinit Kumar Gunjan** “ A Cognitive Approach Based Image Thresholding System for Analysis of Images Associated with Diabetic Myonecrosis” , National Conference on Research Trends in Engineering & Technology (NCRTE-2017),Conducted by TechFluent Solutions Pvt.Ltd, Vijayawada, Andhra Pradesh, 6th March 2017.(Best Paper)
- **G.Obulesu, G.Sudha Kiran, B Abdul Raheem,N.Baladastagiri** “ Design of a power efficient multiplier using reversible logic gates” , National Conference on Research Trends in Engineering & Technology (NCRTE-2017),Conducted by TechFluent Solutions Pvt.Ltd, Vijayawada, Andhra Pradesh, 6th March 2017.(Best Paper)
- **G.Sudha Kiran, G.Obulesu, B Abdul Raheem,N.Baladastagiri,**“ CMOS implementation of different reversible logic gates” , National Conference on Research Trends in Engineering & Technology (NCRTE-2017),Conducted by TechFluent Solutions Pvt.Ltd, Vijayawada, Andhra Pradesh, 6th March 2017.(Best Paper)
- **K.Ramanjaneyulu,S.Siva Kumar, G.Venkatapadmaja, Fahimuddin.Shaik,Vinit Kumar Gunjan,** “Interactive Segmentation and Analysis of Images related to Pulmonary Tuberculosis”, National Conference on Research Trends in Engineering & Technology (NCRTE-2017),Conducted by TechFluent Solutions Pvt.Ltd,Vijayawada, Andhra Pradesh, 6th March 2017.

Invited Experts:

S.NO	FACULTY	ROLES & RESPONSIBILITIES	EVENT	INVITED INSTITUTION/ORGANISATION	DATE
1	Mr. N. Bala Dastagiri	Keynote Speaker	National Conference research Trends in Engineering & Technology, NCRTE-17	Organised by Tech Fluent Pvt. Ltd., Hyderabad at Hotel Manorama, Vijayawada	6 th March 2017
2	Dr. CH. Nagaraju	Session Chair	National Conference research Trends in Engineering & Technology, NCRTE-17	Organised by Tech Fluent Pvt. Ltd., Hyderabad at Hotel Manorama, Vijayawada	6 th March 2017

S.NO	FACULTY	ROLES & RESPONSIBILITIES	EVENT	INVITED INSTITUTION/ORGANISATION	DATE
3	Dr. Fahimuddin Shaik	Publication Committee Chair	International Conference on Recent Advances in Electronics & Communication Technology, ICRAECT-2017	SJBIT, Bengaluru	16-17 th March 2017
4	Dr. CH. Nagaraju	Chief Guest	National Level Student Symposium, e-Wizard- 2k17	St. Johns College of Engineering & Technology, Yemminganoor, Andhra Pradesh	17 th March 2017

Text Books Authored and Published by Faculty:

S. No	Author	Title of the Book/Chapter book	Publisher	ISBN No.	Year
1	Fahimuddin Shaik C.Venkatesh	Computational Methods in Molecular Imaging Technologies	Springer-Singapore	eBook ISBN: 978-981-10-4636-0 Soft cover ISBN: 978-981-10-4635-3 Series ISSN: 2196-8845 DOI: 10.1007/978-981-10-4636-0	April 2017
2	N.Bala Dastagiri, Dr.B.Abdul Rahim, Dr.S.Fahimuddin,	CMOS Latched Comparators	VSRD Academic Publishing	ISBN:978-93-86258-59-5	June 2017

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