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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 Guest lecture on **"Rehabilitation Engineering"** by Dr. M. Ramsubba Reddy, Biomedical Engineering group applied mechanics department, Indian Institute of Technology , Madras, Chennai, India, was conducted on 6/7/19 by the department of ECE for IV B.Tech ECE students .

- A One week workshop on **"Industrial Robotics"** was conducted on 15th to 20th July 2019, for III B.Tech ECE Students by the department of ECE in the association with APSSDC ,JNTU Centre of Excellence, Anantapuram. The resource persons of this workshop was "Sri.G.Vamshi garu" , Engineering Technical services(Ltd), design tech system (Ltd) and also "Sri G. Dattha ", Engineering Technical services(Ltd), design tech system (Ltd).

- A Two day workshop on **"Antenna Design fabrication and Link Deployment"** was conducted for III-ECE students on 30 & 31 July- 2019 by the department of ECE. The resource person of this workshop was "Mr. Anirudh Kulkarni" from Maharastra.

- A Two day workshop on **"MATLAB & its applications"** has been conducted for II B.tech ECE students on 21st & 22nd August – 2019, by the department of ECE. Sri. J.Prem kumar, product manager, Capricot technologies, Hyderabad, was the resource person for this workshop.

- A Two day workshop on **"Industrial Automation System –PLC & its usage "** for III B.Tech ECE Students was conducted on 20th & 21st September – 2019. Mr. B.Senthil Kumar , Technical Head- Automation Division, SSK Delta Design engineering pvt.ltd , Chennai was the resource person of this workshop along with Bhavani Singh, Trainer.

- A One day workshop on **"e-sim, a first course in IOT series for teachers"** was conducted on 21st September – 2019 , for faculty members. This training was organized by the teaching learning centre ICT at IIT-Bombay, funded by the pandit Mohana Malaviya National Mission on teachers and teaching (PMMNMTT) , MHRD, Govt. of India.

- **Fresher's Day Celebrations"** was conducted on 3rd October 2019. Toll wood Lyricist and Music Composer Mr. Chandra bose graced the event as the Chief Guest.

- An **Interactive Session** was conducted on 7/12/19 For III B.Tech ECE Students .The Resource Person for this Interactive Session Was Dr. B. Dheeraj Kumar, IPS.

- A Two day workshop on **"PCB Design"** was conducted on 27th & 28th December for all II_B. Tech ECE Students. This workshop was organized by the department of ECE in association with AITS-ISTE Students chapter. The resource persons for this workshop were S. Amankumar & Rushikesh.

Antrix ECE Association Events:

- An **"ANTHYAKSHARI"** Competition was conducted for II, III, IV B. Tech ECE students on 20/9/19 by the Antrix ECE Association.

- A Guest lecture on **"CORPORATE CULTURE"** by Dr. P. Krishna Moorthy, Professor & HOD, Dept. of MBA, AITS rajampet, was conducted on 25/09/2019 by the Antrix ECE Association for II, III, IV B.Tech ECE students.

- An Internship talk on **"HOW TO GAIN EXPERIENCE AND POCKET MONEY WHILE IN COLLEGE"** by T. Yogeswar reddy, III ECE-C Sec. student, AITS rajampet, was conducted on 01/10/2019 by the Antrix ECE Association for II, III, IV B.Tech ECE students.

- A **"DUMB SHELL ARTS"** Game was conducted on 27/12/2019 by the Antrix ECE Association for II, III, IV B.Tech ECE students.

STUDENT ACTIVITIES

Co –Curricular:

Workshops:

SL. NO.	TITLE	VENUE	DATES	No. of Students Attended
1	Two days' workshop on Antenna Design, Fabrication & link Deployment	AITS Rajampet	30 & 31 July 2019	16
2	A two day workshop on MATLAB & its Application	AITS Rajampet	21 & 22 August 2019	33
3	A 3 Days workshop on ANDROID hands on practice	AITS Rajampet	24 September to 26 September 2019	01

Online courses:

SL. NO.	STUDENT NAME	TITLE	VENUE	DATE(S)	REMARKS
1	Sai Vardhan Bolla	Learn Programming with Python	Online	3rd December 2019	Completed
2	Sai Vardhan Bolla	The complete Android Oreo and Nougat App	Online	24th December 2019	Completed
3	Sai Vardhan Bolla	Android Development for Newbies	Online	24th December 2019	Completed
4	Sai Vardhan Bolla	Complete Beginners Java tutorial – Java, JavaFx, Maven, Jenkins	Online	24th December 2019	Completed
5	Sai Vardhan Bolla	Advanced Penetration Testing	Online	25th December 2019	Completed
6	Thota Yogeshwar Reddy	Siksha's Digital Marketing Project 1.0	Online	October 2018 – January 2019.	Contributor

FACULTY PUBLICATIONS

Journals:

- **C.Venkatesh**, Polaiah Bojja, "Development of Qualitative Model for Detection of Lung Cancer Using Optimization", International Journal of Innovative Technology and Exploring Engineering, Volume: 08, Issue: 09, July 2019, Page No.:.3143-3147, **ISSN NO. (Online):2278-3075 (SCOPUS)**.

- **M.Venkata Dasu**, Dr.PVN.Reddy, Dr.S.Chandra Mohan Reddy, "Classification of Landsat-8 Imagery Based on PCA and NDVI methods", International Journal of Innovative Technology and Exploring Engineering, Volume: 08, Issue: 10, August 2019, Page No.:.4321-4325, **ISSN NO. (Online):2278-3075 (SCOPUS)**.

- N.Yuvaray, **Dr.T.Karthikeyan**, A.Sampath Dakshina Murthy, K.Swathi "An PSO-SFLA Based Ensemble Link Weighted Triple Quality Algorithm to Improve the Performance of Clustering over Categorical Data Clustering", International Journal of Advanced Science and Technology, Volume: 28, Issue: 09, October 2019, Page No.:.104-115, **ISSN NO. (Online):2005-4238 (SCOPUS)**

- **Sudhakiran Gunda**, Dr.Ernest Ravindran R. S., "Design and Simulation of Low Power Consuming Digital Controlled Oscillator in All Digital Phase Locked Loop ", International Journal of Innovative Technology and Exploring Engineering, Volume: 08, Issue: 12, October 2019, Page No.:.3801-3806, **ISSN NO. (Online):2278-3075 (SCOPUS)**.

International Conferences:

1. **M.Venkata Dasu,** Dr.PVN Reddy, Dr.S.Chandra Mohan Reddy "Classification of Remote Sensing Images Based on K-Means Clustering and Artificial Bee Colony Optimization", Springer-International Conference on Cybernetics, Cognition and Machine Learning Applications, , Goa, India, 16th & 17th August 2019.

2. **Fahimuddin shaik** et.al., "Detection and Analysis of Pulmonary TB using bounding box and k-means algorithm", Springer-International Conference on Cybernetics, Cognition and Machine Learning Applications, Goa, India, 16th & 17th August 2019.

3. **M.Venkata Dasu,** Dr.P.Subbaiah, K.Sreelatha "Detection of Blast cells in Microscopic Images Using Optimization Algorithms", International Conference on Computing, Communication and Electrical Technologies, G.Narayanamma institute of technology and Science for Women, Hyderabad, Telangana, India, 29th & 30th August 2019.

Patents:

S.NO	Name of Applicant(s)	Name of other Inventor(s)	Title of the Invention	Application No	Date of Filing	Publication Date
1	S. Nazeer Hussain Shaik Karimullah	S. Nazeer Hussain Dr. B. Abdul Raheem Dr. Fahimuddin Shaik Dr. K. Riyazuddin Shaik Karimullah	Computer-Implemented System for Optimizing Placement and Routing In Very-Large-Scale Integrated Circuit Design	201941021599	30/05/2019	09/08/2019
2	C.Venkatesh M.Venkata Dasu	C.Venkatesh M. Venkata Dasu S. Karimullah K.N.N. Goud L. Sivayamini Dr. Ch.Nagaraju Dr. Fahimuddin Shaik	Computer Implemented Method and System for Processing Qualitative Imaging to Detect and Forecast Abnormalities	201941033884	12/09/2019	20/09/2019
3	------	Dr.T.Karthikeyan	Biological Hydration Monitoring System	201941036762	12/09/2019	20/09/2019
4	Dr.K.Shankar	Dr.K.Shankar	IEMG-Power Bank: Intelligent Electronics Modern Gaugeate Power Bank	201941037444	17/09/2019	27/09/2019
5	Dr.T.Karthikeyan Dr.K.Shankar Dr.CH.Nagaraju	Dr.T.Karthikeyan	IoT System to Detect and Analyse Gait of an Individual and Method Employed Thereof	201941043934	30/10/2019	01/11/2019
6	------	Dr.Fahimuddin Shaik	System and Computer Implemented Methods for Analyzing Features to Generate Sleep Disorder Insights	201941045922	12/11/2019	29/11/2019

S.NO	Name of Applicant(s)	Name of other Inventor(s)	Title of the Invention	Application No	Date of Filing	Publication Date
7	Dr.Fahimuddin Shaik	-------	System and Computer Implemented Methods for Analyzing Features Of Digital Medical Images	201941049665	03/12/2019	20/12/2019

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