



TECHNO DIGEST

Newsletter from Department of ECE

GEETHANJALI COLLEGE OF ENGINEERING AND TECHNOLOGY

Chairman: Sri G. R. Ravinder Reddy

Principal: Dr. S. Udaya Kumar

Head of The Department
Prof. B. Hari Kumar

Editorial Committee
Prof.K.Somasekhara Rao,
Professor ECE, DoSA.
Ms.D Sony, Assistant Professor.

Student Co-ordinators
Y. Sai Vishwanath (14R11A04B6)
IV Year ECE
A. Pranav Raju (14R11A0466)
IV Year ECE
B.L.N.A. Karthik (15R11A04M6)
III Year ECE

R & D Project for the Department:

1. An R&D project of Rs 45.81 Lakhs on “Development of Novel Carbon Nanotube/Polymer Nanocomposite Materials for EMI Applications” was sanctioned to Department of ECE by DRDO for a duration of three years from April, 2018. Dr. S.Ramana Murthy is the Principal Investigator.
2. Dr. V.Vineel Kumar, was appointed as an Associate Professor, ECE. He earned his B.E (ECE) from University College of Engineering, Osmania University, M. Tech (Communication Engineering) from IIT Guwahati and Ph. D (Signal Processing, Communications & Networks) from IIT Kanpur. His research areas include Channel Estimation and Turbo Equalization. He has three research publications to his credit.

Students' Achievements:

1. Students of II year ECE Ms. Divya Kishore and Ms. Vaishnavi Varma Alluri went to Damietta, Egypt for Training children on “Quality Education”.
2. M.Tech students have been deputed for doing their Major Project at CEERI Pilani under the Co-ordination of Dr.R.S.Raju.
3. More than 70 students of 4th year ECE were placed in various reputed organisations .

Workshops Conducted:

1. A workshop was conducted for students of ECE on “Wireless Technology” in association with IEEE Student Chapter on 3rd March, 2018.
2. A One day Workshop on “Research Methodology” for all the faculty, was held on 3rd March, 2018. Prof. B.Yegnanarayana, ECEDept.,IIT,Hyderabad was the resource person. The objective was to strengthen research activities in GCET and guide the faculty pursuing research leading to Ph.D.



Principal Dr. S. Udaya Kumar introducing the Resource Person Prof Yegnanarayana

3. A two day workshop was conducted to III Year ECE students on **“VLSI Design Using Cadence Tools”** on 3rd and 4th March, 2018.

4. A One day workshop was conducted for II and III Year ECE students on **“3D Printing”** in association with Robokart.com by IEEE SB-GCET Chapter on 11th January, 2018.

5. A Two day workshop for students was conducted on **“Arduino Based Internet of Things with Hands – on Practice”** on 17th and 18th February, 2018 for 3rd year ECE students in association with M/s Technotran Electronic Solutions, under ISTE Student Chapter, Hyderabad Section. 62 students participated with enthusiasm in this program, to learn the Arduino and its applications.



Students designing the projects

6. A workshop on **“PCB Design and Fabrication”** was organized on 27th Dec, 2017 for 2nd and 3rd Year ECE students in association with PGP Electronics Pvt. Ltd., Hyderabad

7. Group IV of Department of ECE organized a **“3 Day Faculty Development program on Microprocessors and Microcontrollers lab course”**, held at MPMC LAB from 8th to 10th May 2018, for faculty of ECE, handling the lab course for ECE and EEE III year students, during the academic year 2018-19. Training is given by the lab handling faculty Ms. M.Laxmi, and Mr. CH.Sandeep of ECE Department. The FDP aims to provide an opportunity to all the lab handling faculty, to enrich their programming skills in lab experiments as per Autonomous syllabus. The FDP also intends to develop the knowledge of faculty for execution of additional experiments

Peer Learning Activities:

- ◆ The Digital Electronics Group (Group IV), of ECE Department organized a Peer Learning Three day Workshop with Hands on training on **“Real Time Projects Design and Development using Arduino-For Beginners”** on 2nd, 3rd and 4th March, 2018 at Block - I Seminar Hall-2. This event was conducted under IETE student forum, for the students of III ECE and EEE in association with Final Year Students of ECE. The resource persons are Chaganti Mounica, Pranav Raju A, Paramakusam Niharika and Vecha Pavan Kumar from ECE final Year. The main objective was to build confidence in students to do their projects on their own with the help of their seniors, encouraging



Peer Student receiving token of Appreciation from Dean, SA

Peer-to-Peer learning:

1. A Peer Learning program was conducted on **“Life Skills and Communication Skills”** to 1st year ECE students by Ms. Vaishnavi and Mr. Praneeth of 2nd year ECE. It was held on 6th Jan, 2018 in Seminar Hall-4 Block-II and 100 1st year students participated.
2. The Group IV (Digital Electronics Group) of ECE Department, organized a Peer Learning program (Lecture) on **“Advanced Technology Trends Useful For The Mini and Major Projects Execution”** on 27th December 2017 in Block -1 Seminar Hall-1 for III year ECE Students. The speakers were Y. Sai Vishwanath (Roll No. 14R11A04B6) of IV Year ECE B-SEC and A. Pranav Raju (Roll No. 14R11A04M6) of IV Yr ECE D-SEC. 130 students of ECE 3rd year attended this program.



Group photo of the Team

Research Publications from the Department :

- ◆ **Ms. G.Sreelakshmi**, Associate professor, ECE, presented a paper on “Floating Point Vedic Multiplication Using Parallel Prefix Adders for Signal Processing Applications” in International Conference RIEECS-2017 held by Graphic Era Deemed to be University at Dehradun on 28th and 29th October, 2017 .
- ◆ **Ms. D.Sony**, Assistant Professor, ECE published a paper on “Design of High Speed Fixed & Reconfigurable FIR Filter for Speech Signal Processing” in IJAERD Volume 5 Issue 1 January, 2018.
- ◆ **Ms. D.Sony**, Assistant Professor, ECE published a paper on “Real time scene Text Detection via Connected Component Clustering & Non-Text Filtering in Videos” in IJAERD Volume 5 Issue 2 February 2018.
- ◆ A paper was presented by **Ms. G.Sreelakshmi**, Associate professor, ECE on “A Novel approach to the learning of vinculum numbers into Two’s complement method for BCD arithmetic” in 2nd International Conference on Computing Methodologies Communication (ICCMC 2018) organized by Surya Engineering College during 15th Feb-16th Feb 2018 at Erode, TN.
- ◆ **Mr. Jugal Kishore** Assistant Professor, ECE and **Ms. B.Mamatha** Assistant Professor, ECE presented paper on “A Novel Approach for Recoding Canonical Signed Digit” at “NCEITCT 2018” on 24th March, 2018 conducted by St. Martins Engineering College.
- ◆ **Dr. C.V. Narasimhulu** Professor, ECE and **Mr.U. Appala Raju** Published a paper on “A Proficient Modified Multi-Channel MAC Protocol for Wireless Networks ” in “International Journal Of Research In Electronics And Computer Engineering” March 2018.
- ◆ **Ms. D.Sony**, Assistant Professor in ECE Published a paper on “Comparison of Wallace, Vedic & Dadda Multipliers ” in IJAERD Volume 5 Issue 3 March, 2018.
- ◆ **Ms. D.Sony**, Assistant Professor in ECE & **Mr. M.Krishna**, Assistant Professor in ECE Published a paper on “Motion Deblurr” in IJAERD Volume 5 Issue 3 March 2018.
- ◆ **Ms.D.Sony**, Assistant Professor in ECE & **Mr. B.Ramu**, Assistant Professor in ECE Published a paper on “An Adaptive Image Resolution Enhancement by Using Multi-Resolution Transform” in IJCRT Volume 6 Issue 1 March, 2018.
- ◆ Students of ECE IV year **K.Mounica**(14R11A0428), **M.Santoshini**(14R11A0435) ,**K.Rahul** (14R11A0432) under the guidance of **Ms. V.Venkata lakshmi**, Assistant Professor in ECE, published a paper on "Design & implantation of Safety Arm Band for Women & Children Using ARM 7",in IJAERD Volume 5 Issue 3 March, 2018.
- ◆ Students of ECE IV year **Chaganti Monica** (14R11A04C9), **N.Mounika reddy** (15R15A0419), **M Prdhyumna** (14R11A04F5) under the guidance of **Mr. Ch.Sandeep**, Assistant Professor in ECE, published a paper on “Implementation of Driver Drowsiness Alert and Automatic Vehicle Control System Using Arduino” in IJAERD Volume 5 Issue 3 March 2018.
- ◆ **Ms. A.R.L Padmaja**, Assistant Professor in ECE Published a paper on “Design Of Remote Surveillance System For Detection Of Driver's Drowsiness Using Low-Cost Embedded Platform” in IJECEC Volume 4 Issue 2 March, 2018.
- ◆ **Ms. V.VenkataLakshmi**, Assistant Professor in ECE, **Mr. B.Ramu**, Assistant Professor in ECE, **Ms. M.Umarani**, Assistant Professor in ECE, published a paper on "An Efficient Adaptive Image Enhancement Method in Wavelet Domain” in IJCRT, Volume 6, March 2018.
- ◆ Students of ECE IV year **P. Niharika**, **P.J.Bharathwaj**, **A. Shiva Sai**, **B. Adithya**, **V. Pavan Kumar** under the guidance of **Ms. B SreeLatha**, Associate professor, ECE, published a paper on "Preeminent Voting System", in International Journal for Research in Applied Science & Engineering Technology (IJRASET), Volume 6 Issue 4, April 2018, pp-497-504.
- ◆ Students of ECE IV year **E Alakananda**, **B Bhavya**, **S Hari Prasad** under the guidance of **Ms. B SreeLatha**, Associate professor, ECE, published a paper on "IoT Applied to Logistics using Intelligent Cargo”, in International Research Journal of Engineering and Technology (IRJET), Volume 5 Issue 4, April 2018, pp-191-193 .
- ◆ Students of ECE IV year **M Divya**(14R11A0493),**E Nikhitha** (15R15A0408), **Rudra Vamshi** (14R11A04A9) under the guidance of **Mr. Ch. Sandeep**, Assistant Professor in ECE, published a paper on “Smart Ration Distribution using RFID and Biometric for Avoiding Malpractices in IJRASET, Volume 6 Issue IV, April 2018.
- ◆ Students of ECE IV year **K.Dhenu Sri** (14R11A04E2), **K.Aishwarya** (14R11A04E3), **K.Prashanth** (14R11A04E6) under the guidance of **Ms.T.N.Swetha**, Assistant Professor in ECE, published a paper on “Arduino Controlled Robot “ in JETIR, Volume 5 Issue 4 , April-2018
- ◆ Students of ECE IV year **Y.Sai Tejasri** (14R11A04P5), **V.Mounika** (14R11A04N8) and **M. Varun** (14R11A04L8) under the guidance of **Ms. Y.Nagalakshmi**, Assistant Professor in ECE, published a paper on “Configurable Zigbee Based Control System In Smart Homes For People With Multiple Disabilities” in JETIR, Volume 5 Issue 4 , April-2018.

- ◆ **Ms. M.Sowjanya** published a paper on "Acquiring Bus Information Using GSM Technology" in "Journal of Emerging Technologies and Innovative Research" April 2018.
- ◆ **Ms. J.Bharathi**, Assistant Professor in ECE published a paper on "Generating Of Power Through Wheels Of A Vehicle With Smart Lighting System" in "Journal of Emerging Technologies and Innovative Research" April 2018.
- ◆ **Mr. R.Odaiah**, Associate professor, ECE published a paper on "Design Of Electronic Voting Machine Based On Image Processing Using Raspberry Pi" in "International Journal of Advance Engineering and Research Development" April 2018.
- ◆ **Mr. R.Odaiah**, Associate professor, ECE published a paper on "Increasing The Safety Of Bomb Disposal Using Zigbee Technology" in "International Journal of Advance Engineering and Research Development" April 2018.
- ◆ **Mr. R.Odaiah**, Associate professor, ECE published a paper on "Increasing The Safety Of Bomb Disposal Using Zigbee Technology" in "International Journal of Advance Engineering and Research Development" April 2018.
- ◆ **Mr. M.Krishna**, Assistant Professor, ECE published a paper on "Collision And Short Circuit Alert Information System In Vehicles Using Arduino, GPS And GSM" in "Journal of Emerging Technologies and Innovative Research" April 2018.
- ◆ **Mr. B. Sreelatha**, Associate professor, ECE published a paper on "Implementation of Efficient Traffic Management System and Detection of Emergency/Stolen Vehicle" in "International Journal of Research" April 2018.
- ◆ **Mr. B. Sreelatha**, Associate professor, ECE published a paper on "Critical Component Identification in Analog Electronic Circuits using Sensitivity Analysis" in "International Journal of Emerging Research in Management and Technology" April 2018.
- ◆ **Ms. M.Sowjanya**, Associate professor, ECE published a paper on "Multi-View Videos Plus Depth Assessment Using Novel Saliency Detection Method" in "International Journal of Latest Trends in Engineering and Trends" April 2018.

VIBES-VIBGYOR 2K18 :

VIBES –VIBGYOR are Annual Day Celebrations and Cultural Fest conducted on 9th and 10th March 2018. The Chief Guest for Annual Day Celebrations was **Mr. Babu Gogineni**. Progressive Brothers carried out the DJ session of the cultural fest.

TECHEXPO-18 :



TECHEXPO-18, a National level Hardware and Software project competition was conducted on 24th March, 2018 under the ISTE Professional Body. A Total of 109 batches participated in the competition out of which 25 batches were from various reputed colleges namely CVR, Vardhaman Engineering college, TKR, St.Peters Engineering College, Nalla Narasimha Reddy Engineering College, Holy Mary Institute of Technology and Science, Bhoji Reddy, AVN Institute of Engineering and Technology, etc. **Prof. C.R. Sharma**, an Electronics engineer from Madras Institute of Technology (now Anna University) & Vice chairman, IETE, Hyderabad center and **Dr. A.V.Narasimha Rao**, Professor, CBIT were invited as External judges. The judges were accompanied by the professors of the department who supported in evaluating the mini and major projects demonstrated in different labs of the department. Based on the evaluation, the merit list was prepared and a total cash prize of Rs.20,000 was distributed among the winners.



WINNERS OF TECHEXPO - 18

S.No	Name of the students	Prize (Cash in Rs.)	Category	College
1	K.Dhenu Sri K.Aishwarya K.Prashant	I (2500)	H/W	GCET
2	G.Koulini E. Nikhita A.Jyothirmaye Ch. Hari Prasad	I (2500)	H/W	TKRCET
3	Harika Devi K.Ramya Sri	I (2500)	H/W	TKRCET
4	M.Mridula Gayatri T. Vamshi Teja T. Shravan	I (2500)	S/W	GCET
5	Shaik Sameer Ali A.Navya V.Pooja	II (1500)	H/W	GCET
6	A.Reethika D.Mani Kanta	II (1500)	H/W	GCET
7	E.Nikhita M.Divya Rudra Vamshi	II (1500)	H/W	GCET
8	D.Keerthi C Shiva Kumar T Sai Bhuvan	II (1500)	S/W	GCET
9	Nikhitha Ragi P. Karan Kumar N.Vishal Chaitanya	III (1000)	H/W	GCET
10	M.Venkat Rohit M.Vinil Vijaya Bhaskar	III (1000)	H/W	CVR
11	B. Srikanth Reddy B.Manasa R.Srikenth	III (1000)	H/W	Nalla Narsimha Reddy college
12	Ankita	III (1000)	H/W	CVR

ICTEMPS-2018: An International Conference was organized on “Trends in Engineering, Management Pharmacy and Sciences” 20st April, 2018. 300 participants attended from different countries and approximately 120 papers were shortlisted for publication. **Dr. V.N. Mani**, Principal Scientist, Dept. of Electronics & Information Technology, Govt. of India, Hyderabad was the Chief Guest, **Dr. Subhas Chandra Mukhopadhyay**, Prof. of Electronics Engineering, MACQUARIE University NSW 2019, Australia was the Keynote Speaker and **Mr. Bashir, Busahmin**, Senior Asst. Professor, Petroleum & Chemical Engineering, University of Brunei, Brunei was the Guest of Honor.

NSS Activities :

The activities conducted by NSS Cell of our college during December 2017 to May 2018 are:

S.No	Date	Activity
1	18.12.2017	Distribution of clothes and food material for old age Home people near Cheeryal Village.
2	20.01.2018	General Health Camp was conducted in GCET
3	05.03. 2018	Survey on Social Status of the families residing in the Cheeryal Village

Indus-**trial Visits :**

The following Industrial visits were organized to B.Tech (ECE) students:

- ◆ II B.Tech (ECE) students visited [Datalog Controls and Solutions Pvt Ltd., Hyderabad](#) during September 2017 and February, 2018.
- ◆ III B.Tech (ECE) students visited [National Institute of Amateur Radio, Hyderabad](#) during March, 2018.
- ◆ IV B.Tech (ECE) students visited [Regional Telecom Training Centre \(BSNL\), Hyderabad](#) on 23rd September, 2017.
- ◆ IV B.Tech (ECE) students visited [ICOMM TELE LIMITED, Hyderabad](#) on 7th April, 2018 as a part of their industrial visit.

Academic Toppers of 2016-17

S.No	Name	Roll No	Percentage or CGPA / Rank
I Year			
1	M.Eswar Hemanth	16R11A0427	9.50/I
2	M.Sanjay	16R11A04C4	9.42/II
3	K.Greeshma	16R11A0420	9.19/III
4	K.Himesh Bharrdwaj	16R11A0462	9.19/III
II Year			
5	P.Nikitha Reddy	15R11A04F6	76.63/I
6	D.Sai Jaya Madhavi	15R11A0472	75.80/II
7	A.Chinmayee	15R11A04J1	75.23/III
III Year			
8	J.Shiva Charan	14R11A0423	76.93/I
9	A.Navya	14R11A0404	74/II
10	P. Niharika	14R11A04A1	73.66/III

JNTUH Innovatio Club (J-HUB):

Jawaharlal Nehru Technological University Hyderabad has launched a University wide Innovation and R&D initiative J-Hub- JNTUH Innovation Hub , from the academic year 2017-18. J-Hub is envisioned to provide a unique platform for the graduating engineers, faculty, research scholars and alumni to pursue innovation, Applied Research and tech-entrepreneurship. The initiative will impact the quality, confidence and competitiveness of the students and prepare them for 21st century Knowledge Economy.

Following Students are nominated from our department (in addition to students from other departments) to J-HUB initiative

II Year B.Tech. (ECE)

SI No	Name	Roll No
1	Majeti Eswar Hemant	16R11A0427
2	Adusumilli Kaushik	16R11A0497

III Year B.Tech. (ECE)

SI No	Name	Roll No
1	Chitneni Sai Ram Rao	15R11A0408
2	K S Veerendernath	15R11A0483
3	P. Nikitha Reddy	15R11A04F6

Student Internships

There has been a significant improvement in the Student Internships during the last 2 Years. During the academic year 2016-17, **43 students** underwent internships in various reputed industries . During this academic year of 2017-18 as many as **163 students** have taken permission to do internships.

Following III year B.Tech students are nominated for Internship in Airport Authority of India, Begumpet, Hyderabad during May 2018. It covers all practical aspects of Antennas and Navigation Aids.

SI No	Name	Roll No
1	Nallanagula Pranay Teja	15R11A04M9
2	Venkata Nagasesha Sai Lakshmi Sowmya	15R11A04J0
3	GaddamVindhya Reddy	15R11A0410

Guest Lecture/Seminars Organized:

- 1.A guest lecture was conducted for II Year ECE students on “Nano Technology” by Dr. K Narsiham, Senior Scientist, Nuclear Fuel Complex, Hyderabad on 28th Dec, 2018.
- 2.A guest lecture was conducted to II, III & IV Year students of ECE on “Hardware-in-Loop Simulation (HILS) Technology” by Mr. Rajesh S Karvande, Scientist-E, DHILS, RCI, DRDO on 4th Jan, 2018.
- 3.A guest lecture was organized for III Year ECE students on “Introduction to Advanced Micro-controllers” by Ms. B. Bhavani of MVSR Engineering College on 24th Feb, 2018 and 240 students participated in the event.
- 4.A guest lecture was organized for II Year ECE students on “Fundamentals of Analog Communications and Stochastic Process” by Dr. K. Yeukondalu, CVR College on 2nd March, 2018.
- 5.A Seminar was conducted by Ms. Dibya Maheshwari, Software Engineer & Ms. Sridatri Panda, Manager in Association with IEEE WIE AG and Gender Champions-UGC for ECE students on “The baton is in your hands and YOU meet you” on 3rd March, 2018.
6. A guest lecture was conducted for III Year ECE students on 17th March, 2018 by Dr. Anil Kumar Vuppala on “Applications of Digital Signal Processing”.

Faculty Interaction with Outside World:

1. Dr.R.Suryanaraya Raju, Professor and Dean (R&D) acted as the Chair for the Peer Review Committee of DRDL - DMRL on 10th January 2018.
2. Prof.K.Somasekhara Rao, Professor and Dean (SA) acted as a Member for the ECE BoS of SNIST on 20th January 2018.
3. Dr.V.Satya Srinivas, Associate Professor, ECE Dept. acted as Resource Person for FDP held in Osmania University on 5th June 2018.
4. Dr.Vijaya Gunturu, Professor, ECE Dept. acted as Session Chair during the International Conference ICTEMPS-2018 held at GCET on 21st April 2018.
5. Dr.C.V.Narasimhulu, Professor, ECE Dept. acted as Session Chair during the International Conference ICTEMPS-2018 held at GCET on 21st April 2018.
6. Mr.D.Venkatarami Reddy, Associate Professor, ECE Dept. acting as a Member for the Students Activity Committee of IEEE-Hyderabad Section.
7. Dr. C.Venakata Narasimulu Professor, ECE was an External BoS Member for ECE Department of TKR College of Engineering and Technology, Hyderabad
8. A.Shanker, Associate professor, ECE delivered a lecture on “Digital Signal Processing” to III Year students of GNIT on 28th March, 2018

Obituary

Faculty and Staff of ECE Department express their heart felt condolences on the untimely demise of Ms. V.Indu Priya, Assistant Professor, ECE Dept.



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