




 *To become a reputed Department of learning in Electronics and Communication in research and transform the students into professional engineers.*

# MISSION

 *To provide a strong foundation in core electronics and communication engineering that would make students to explore advances in research for higher learning.*

 *To provide a learning ambience to nurture the young minds with theoretical and practical knowledge to produce employable and competent engineers.*

 *To imbibe moral values, professional ethics, team spirit and leadership qualities among students and faculties to contribute to the continuously evolving technologies.*

 *To inculcate empathy for societal needs and concern for environment in engineering research development and practices.*










# E-Sancharika

DEPARTMENT OF ECE NEWSLETTER

JUNE 2019 Vol. 4 Issue 2



***“THE SCIENCE OF TODAY IS THE  
TECHNOLOGY OF TOMORROW”  
- EDWARD TELLER***

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## Editorial Team:

*Faculty Co-Ordinators:*

Dr. N. Srinivasa Rao,  
Professor & Head, -Editor

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Mrs. A. Narmada - Co-Ordinator

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Mr. Akshit Alwala, IV ECE

Mr. K. Pavan Kumar IV ECE

Mr. Sai Sri Harsha, III ECE

Mr. Rohith, III ECE

Ms.K.V.Mriganaini, III ECE

Mr. Sujith Reddy, II ECE

Ms. Spandana, II ECE

### About The Department

The ECE Department was established in 2011 with an intake of 120 students. Dr. N.Srinivasa Rao is the HOD. He has completed Ph.D in ELECTROMAGNETICS and has a vast experience of 29 years in the academics. The department has excellent laboratories and well-qualified faculty. The department trains the young engineers to cater to the technological needs of the nation. The faculty members are associated with IETE, IEEE & CSI. **The Department supports economically poor students in all aspects.**

### From HOD's Desk

The Department of Electronics & Communication Engineering (ECE) has consistently maintained an exemplary academic record. The greatest asset of the department is its highly motivated and learned faculty. The available diversity of expertise of the faculty with the support of the other staff prepares the students to work in a global and multicultural environment. The graduates of the Electronics & Communication Stream have been selected by some of the leading software companies. The Department not only aims to make our students technically sound and knowledgeable, but also to nurture their wisdom and make them a better and responsible human being. We hope that we will continue to deliver our best to serve the society and mankind. It is also expected that our students will continue to pass on the skills which they have developed during their stay at this department to the whole world for a better society

### Faculty Achievements

- Dr. R. Prakash Rao has been privileged with 'Distinguished Professor Award' by IARDO ,Ghaziabad on 15<sup>th</sup> April 2019.
- Dr. R. Prakash Rao has published a book on the title of "FPDWT ON FPGA" by DK International Research Foundation, Chennai in the month of June-2019.
- Dr. Pallavi Khare Assoc. Professor got active **SPOC** (Single Point Of Contact) by NPTEL for Jan-April 2019 session.
- Mr.Ashok Kumar , Asst Professor of ECE has submitted his DOCTORAL THESIS for evaluation and Award of Degree to PONDICHERY UNIVERSITY in VLSI area during Dec-2018.
- Mrs. K.Aruna, Asst. Professor has got the Ph.D admission at OU in June -2019

### Students' Achievements

- K. Divya, III Sem ECE won the 1<sup>st</sup> prize in Badminton in ATHLEMA-19 at MVSREC from 15.03.19 to 16.03.19.

**Events organized by the Department**

- 1) The Department of ECE has organized Two day Project Awareness Program for the benefit of III & IV year ECE students which was scheduled on 30.01.2019 & 31.01.2019 by M/s Elegant Embedded Solutions, Hyd - by Dr. N. Srinivasa Rao, Professor&HOD
- 2) The Department of ECE has organized STTP on Development of Lab Manuals & Instructions in association with NITTR- Kolkata during 04.02.2019 to 08.02.2019.
- 3) The Department of ECE has organized Two day Hands on training- PCB Design during 15.02.2019 & 16.02.2019 in association with M/s Elegant Embedded Solutions Ltd, Hyderabad for the benefit of II year ECE students – by Dr. N. Srinivasa Rao, Professor&HOD
- 4) The Department of ECE has organized three day technical workshop in association with M/s. Edgate Technologies Ltd, Bangalore (Texas Instruments –India) as a part of MOU during 26.02.2019 to 28.02.2019 by Dr. N. Srinivasa Rao, Professor&HOD
- 5) The Department of ECE has organized half day tutorial cum Expert lectures related to EMTL & Antennas by Dr. N. V. S. N. Sarma, Director, IIIT, Tiruchi for the benefit of II & III year ECE students scheduled on 07.03.2019 – by Dr. N. Srinivasa Rao, Professor&HOD
- 6) The Department of ECE has organized half day Labview Virtual Instrumentation Demonstration in terms of ECE applications on 08.03.2019- by Dr. N. Srinivasa Rao, Professor&HOD
- 7) The IEEE student branch of Matrusri Engineering College under WIE-AG wing has organized Women's day Celebrations on 08.03.2019.
- 8) The Department of ECE has organized One week Faculty Development Program on “Advances in Wireless Communication- Challenges & Solutions” from 11.03.2019 to 17.03.2019 in association with Electronics & ICT Academy, NIT, Warangal – by Dr. M.Sushanth Babu, Professor
- 9) III-Semester ECE Students completed an INTERNSHIP program as part of AICTE Model Curriculum in JUNE 2019. As part of this, all faculty of ECE have given 30 minutes lecture related to applications and importance of ECE – by Dr. N. Srinivasa Rao, Professor&HOD

**Workshops/FDPs attended by the Faculty**

- N.Srinivasa Rao, Professor& HOD, attended 21 days summer school during 10<sup>TH</sup> May 2019 To 23<sup>rd</sup> May 2019 @ IIT Hyderabad on TLS
- Mr.K. Koteswara rao attended the FDP on Meta Material Applications and Evolutionary Techniques Organized by NIT Warangal from 22.04.2019 to 27.04.2019
- Mr. M.Naresh attended One Week FDP on “5G wireless communication” Organized by NIT Warangal from 29<sup>th</sup> June to 03<sup>rd</sup> July 2019
- The following faculty members have attended the Two day Workshop on “Hands on Training PCB Design” Jointly organized by ECE Department in collaboration with M/S Elegant Embedded Solutions Limited, Hyderabad during 15th to 16th Feb 2019 at MECS.  
Dr. Prakash rao, Mr. Koteswara rao, Mrs. Indira Priyadarshini, Mrs. K. Vijetha, Mrs.P. Sravani, Mr. K. Praveen
- The following faculty members have attended the One week STTP through ICT Mode on “Development of Laboratory Instruction and Manual” organized by MECS from 04.02.2019 to 08.02.2019.  
Dr. Prakash rao, Mr. K. Koteswara rao, M.Naresh, Mrs. Indira Priyadarshini, Mrs. Vijetha, Mrs.P. Sravani, K. Praveen
- The following faculty members have attended the One week FDP on “Advances in Wireless Communications: Challenges & Solutions” organized by the E&ICT Academy, NIT Warangal at MECS from 11th to 17th March, 2019.  
Dr. Prakash rao, Mr. Koteswara rao, M.Naresh, Mrs. Indira Priyadarshini, Mrs. Vijetha, Mrs.P. Sravani, K. Praveen
- The following faculty members have attended NPTEL Online Certificate course from Jan- Apr 2019 organized by IIT Kharagpur.  
Ashok Kumar K, V Karunakar Reddy, Mr. Koteswara rao, Mrs. Indira Priyadarshini, Mrs. K. Vijetha, Mrs.P. Sravani, K. Praveen



## Faculty Publications

N.Srinivasa Rao, Professor & HOD

- Research paper accepted to publish in SPRINGER Electrical engineering series as book chapter

Dr.P.H.Gopal Mani

- Implementation of The Standard Floating Point DWT Using IEEE 754 Floating Point MAC” ICICV 2019, Springer.

Dr.M.Sushanth Babu, Professor

- A Novel Cooperative Routing Algorithm for Multi-Radio Large Scale MANETs, IEEE Communication Letter, UK (SCOPUS)- pp.119-127.
- Improvement in Sum Rate Maximization Using Game Theory in Massive MIMO Heterogeneous Network - Springer 3<sup>rd</sup> International Conference on Data Engineering and Communication Technology (ICDETT)- from 15-16 March 2019.

Dr. R. Prakash Rao, Assoc. Professor

- Implementation of The Standard Floating Point DWT Using IEEE 754 Floating Point MAC” ICICV 2019, Springer.

Dr. Pallavi Khare Assoc. Professor

- Improvement in Sum Rate Maximization Using Game Theory in Massive MIMO Heterogeneous Network - Springer 3<sup>rd</sup> International Conference on Data Engineering and Communication Technology (ICDETT)- from 15-16 March 2019.
- Qwerty Keyboard In Virtual Domain Using Image Processing - IEEE 3<sup>rd</sup> International Conference on Intelligent Computing & Control Systems ( ICICCS) – 2019 from May 15-17 , 2019.

Mr. V Karunakar Reddy, Asst. .Professor

- IOT Based Smart Zone Vehicle Speed Control, *International Journal of Recent Technology and Engineering (IJRTE)*, Vol-8, Issue-1, May 2019. ISSN: 2277-3878 (Retrieval Number A3442058119/19©BEIESP)
- Design of FPGA based Block Cipher Clefia for Feistel Network” 9<sup>th</sup> National Conference on recent trends in electronics and communication engineering held on 4<sup>th</sup> May 2019, SJBIT, Bangalore.
- Combined Crosstalk Avoidance Code with Error Control Code for Detection and Correction of Random and Burst Errors” *Error detection and correction, Intechopen publisher 2019*. DOI: <http://dx.doi.org/10.5772/intechopen.83561>

Mrs. B. Indira Priyadarshini, Asst. .Professor

- Implementation of The Standard Floating Point DWT Using IEEE 754 Floating Point MAC” ICICV 2019, Springer.
- A Survey on EEG Analysis Using Different Methodologies, IJEDR 2019.
- FPGA Implementation of Vedic Floating Point Multiplier, IJAMTE 2019.
- FPGA Implementation Of High Speed Accelerator using Carry Save Adder, IJAMTE 2019.

Mr. K. Ashok Kumar, Asst. Professor

- Implementation of The Standard Floating Point DWT Using IEEE 754 Floating Point MAC” ICICV 2019, Springer.
- High reliability and low latency network on-chip- International Conference on Recent Advances in Computer Science and Engineering (IC-RACE), organized by Department of Computer Science and Engineering, Acharya Nagarajuna University, Guntur, pp.154-161, 4-5<sup>th</sup> March 2019.
- IOT Based Smart Zone Vehicle Speed Control, *International Journal of Recent Technology and Engineering (IJRTE)*, Vol-8, Issue-1, May 2019. ISSN: 2277-3878 (Retrieval Number A3442058119/19©BEIESP)
- Design of FPGA based Block Cipher Clefia for Feistel Network” 9<sup>th</sup> National Conference on recent trends in electronics and communication engineering held on 4<sup>th</sup> May 2019, SJBIT, Bangalore.
- Combined Crosstalk Avoidance Code with Error Control Code for Detection and Correction of Random and Burst Errors” *Error detection and correction, Intechopen publisher 2019*. DOI: <http://dx.doi.org/10.5772/intechopen.83561>

Mr. M. Naresh, Asst. Professor

- Visiting center based portable emissary approach for data gathering in wireless sensor networks- IEEE-ICCMC- scopus indexed – 2019
- Identity mapping using cluster-based certificate technique for vehicular ad-hoc networks- IEEE- ICICSS- scopus indexed – 2019
- Link prediction algorithm for efficient routing in VANET’s- IEEE-ICCMC- scopus indexed – 2019

### Students' Placements

About 47 students from the department have been placed in various companies from Jan-June 2019 and their details are mentioned in the below tabular form.

S.No	Rollno.	Name of the Student	Name of Company	Package Offered by company
1	1608-15-735-002	B. Anmisha	Face	2.88lpa
2	1608-15-735-003	P Akhil Reddy	infosys	3.6lpa
3	1608-15-735-004	Anuhya. N	TCS, Cognizant	3.35lpa, 3.38lpa
4	1608-15-735-005	Akhila Pasunoori	Cognizant	3.38 lpa
5	1608-15-735-006	Kothuri Sai Sampath	ADP	4 lpa
6	1608-15-735-007	Puli ManasaGayatri	SoCtronics (Veda IIT)	3 lpa
7	1608-15-735-008	G. N. Poojitha	TCS, Cognizant	3.35lpa,3.38lpa
8	1608-15-735-011	Pala. Prashanth	Veda IIT, TCS	3 lpa, 3.35 lpa
9	1608-15-735-016	K.Saivivek	justdial	2.9lpa
10	1608-15-735-018	I.Mohith	amazon	2.26lpa
11	1608-15-735-020	B.Naveen	SoCtronics (Veda IIT)	3 lpa
12	1608-15-735-024	T.V.Apoorva	TCS ninja, infosys	3.36lpa,3.6lpa
13	1608-15-735-026	P.sriharsha	Face	2.88lpa
14	1608-15-735-029	G. Sneha	Wipro	3.5lpa
15	1608-15-735-032	N. Lakshmi Prasanna	cognizant,Amazon	3.3lpa,2.26lpa
16	1608-15-735-034	M.Suchitra	Tcs	3.36lpa
17	1608-15-735-035	K.Lakshmi Kiran	Face	2.2Lpa
18	1608-15-735-055	Rajpure kanya kumari	cognizant	3.38lpa
19	1608-15-735-056	B.Chandra Kanth	ICICI	2 lpa
20	1608-15-735-057	Adirala madhuri	FACE	2.88 lpa
21	1608-15-735-062	Nikhita Kulkarni	Sonata Software	2.4lpa
22	1608-15-735-063	Aayushi Raje	TCS	3.36 lpa
23	1608-15-735-064	Y.Lakshmi Jahnavi	Wipro,Infosys,Cognizant	3.5lpa,3.6lpa,3.3lpa
24	1608-15-735-066	V.L.K.Chaitanya	TCS	3.36lpa
25	1608-15-735-067	N.Srujana	ICICI	1.97lpa
26	1608-15-735-068	K.Pavan Kumar	Wipro	3.5lpa
27	1608-15-735-069	G.Samhitha	Amazon	2.26 lpa
28	1608-15-735-074	K.Satyaram	TCS	3.36 lpa
29	1608-15-735-076	V.Sri Chaitanya	zenq, SoCtronics, wipro	3.6 lpa
30	1608-15-735-077	S Sourabh	infosys	3.6 lpa
31	1608-15-735-078	G.S.V. Prudhvi	Just Dial	2.9lpa
32	1608-15-735-081	J Vallabh Ram	Raam, Amazon	2.4lpa
33	1608-15-735-082	K. Jayanth	Just Dial	2.9lpa
34	1608-15-735-084	K Sai Srinija	TCS, Infosys	3.36lpa, 3.6lpa
35	1608-15-735-085	A.Aravind	just dial	3lpa
36	1608-15-735-087	N.Varsha	TCS	3.36lpa
37	1608-15-735-089	B. Satyajeeth	Amazon	2.69lpa
38	1608-15-735-090	P.Shraddha	FACE	2.8lpa
39	1608-15-735-100	M.Sai kumar	HCS, ICICI	3.7,1.97
40	1608-15-735-102	G.Nikhilesh	wipro	3.5lpa
41	1608-15-735-110	N. Angelina Priyanka	ICICI	1.97 lpa
42	1608-15-735-115	M.Kalpana	Wipro	3.5 lpa
43	1608-15-735-116	Ch. Sai Sri Harsha	Cognizent	3.38 lpa
44	1608-15-735-117	K Varsha	Infosys	3.6 lpa
45	1608-15-735-118	A.Akshith	wipro	3.5lpa
46	1608-15-735-315	p.srikanth rao	justdail	3lpa
47	1608-15-735-319	Y.madhavi	FACE	2.8lpa