

Newsletter

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SIGNALS



HALF - YEARLY NEWS LETTER

VOLUME : 13

JULY : 2018

Newsletter

Electronics & Communication
Engineering



**PRASAD V POTLURI
SIDDHARTHA
INSTITUTE OF TECHNOLOGY**

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Quotation

**“Take Risks in Your Life”
If you win, You can Lead
If you Loose, You can Guide
---Swami Vivekananda**

**Faculty Incharge:
Mrs. D. Hareesha**

WORKSHOPS / SEMINARS / GUEST LECTURES / TRAINING PROGRAMS / SYMPOSIUMS ORGANIZED:

- i. A guest lecture was conducted on **Wearable Antennas** on 5th July, 2018 for III B.Tech., ECE Students.

Resource Person: Mr.V.Balarama Reddy,
(M.Tech.-Alumni 2013-15)



- ii. **Art of Living** orientation program was conducted on 16th July, 2018 for III B.Tech. students and Training Session was conducted from 17th to 19th August, 2018.



- iii. A Three day training program was conducted on **NI My DAQ** during 16th – 18th July, 2018 for staff & IV B.Tech. ECE Students of ECE & EEE.

Resource Person: Mr.Jeegesh Kumar,
Sr. Application Engineer, VI Solutions, Bangalore.

Faculty Participants:

1. **Dr. A. Geetha Devi**, Associate Professor
2. **Mr. J.Ravindra Babu**, Associate Professor
3. **Mrs. K. Aruna Kumari**, Sr. Assistant Professor
4. **Mrs. D. Hareesha**, Assistant Professor
5. **Ms. T. Sushma**, Assistant Professor

6. **Mrs. B.V. Subbayamma**, Assistant Professor
7. **Mrs. V.S.D. Rekha**, Assistant Professor
8. **Mrs. B. Swathi Lakshmi**, Assistant Professor
9. **Mrs. D. Swathi**, Assistant Professor
10. **Mrs. T. Maha Lakshmi**, Assistant Professor

iv. **PCB Expo** was conducted for III B.Tech. ECE students on 17th July, 2018 in Microwave Lab & Communication Systems Lab under ISF. I, II & III Prizes were given to the winners.

Judge: Ms. Sumanjali, Efftronics Pvt. Ltd.,



v. A guest lecture was conducted on **Bio Material Based Medical Devices and FDA Regulations** on 21st July, 2018 for IV B.Tech. students and staff under IETE Students' Forum.

Resource Person: Dr.Trivikrama Bhanoji Reddy Pala, USA.

vi. A guest lecture was conducted on **Bio Medical Instrumentation** on 30th July, 2018 for IV B.Tech. students.

Resource Person: Prof. K.Vidya Sagar,

VNR Vignana Jyothi Institute of Engineering and Technology,
Hyderabad.

vii. **TECHWIZARD-2018** was conducted on 31st July, 2018 under IETE Students' Forum, Technical Events like **HUNKYBRAINS**, **WORK THE NETWORK**, **FOCUS AND QUIZE-BEE** were conducted. I, II & III B.Tech. ECE, EEE students participated.

Techwizard-2k18 Chairperson: Dr.P.Rajesh Kumar, Professor & HoD

Techwizard-2k18 Overall Coordinator: Dr. T.Haritha, Associate Professor

i) Hunky Brains –

Co-ordinator : Dr. A. Geetha Devi, Associate Professor

Staff Members: Mr. Md. Habibulla, Sr.Assistant Professor

Mr. P. Venu Madhav, Assistant Professor

Mrs. V.S.D. Rekha, Assistant Professor

Mrs. T. Krupa Lakshmi, Lab Technician

Ms. M. Lahari Ratnanjali, Lab Technician

ii) Quiz – Bee :

Co-ordinator : Mr. M. Srinivasa Rao, Associate Professor

Staff Members: Mr. T. Balaji, Sr.Assistant Professor

Mr. K.P. Rama Krishna, Assistant Professor

Mrs. D. Swathi, Assistant Professor

Mrs. D. Praveena Bai, Assistant Professor

Mrs. D. L.Hima Bindu, Lab Technician

Mr. P. Koteswara Rao, Lab Technician

iii) Focus:

Co-ordinator : Mrs. K. Anitha, Associate Professor

Staff Members: Mrs. K. Aruna Kumari, Sr.Assistant Professor

Mr. B. Samuyelu, Sr. Assistant Professor

Mrs. D. Hareesha, Assistant Professor

Mr. A. Ashok Babu, Assistant Professor

Mrs. B. Swathi Lakshmi, Assistant Professor

Mrs. T. Maha Lakshmi, Assistant Professor

Mrs. K. Vijaya Lakshmi, Lab Technician

Mr. V. Bharath Kumar, Lab Technician

iv) Work the Network :

Co-ordinator : Dr. Ch. Gangadhar, Associate Professor

Staff Members : Mr. J. Ravindra Babu, Associate Professor

Mr. B. Surya Prasada Rao, Associate Professor

Ms. T. Sushma, Assistant Professor

Mrs. V. Ratna Kumari, Assistant Professor

Mrs. B.V. Subbayamma, Assistant Professor

Mrs. L. Madhavi Devi, Assistant Professor

Mr. G. Rambabu, Embedded Engineer

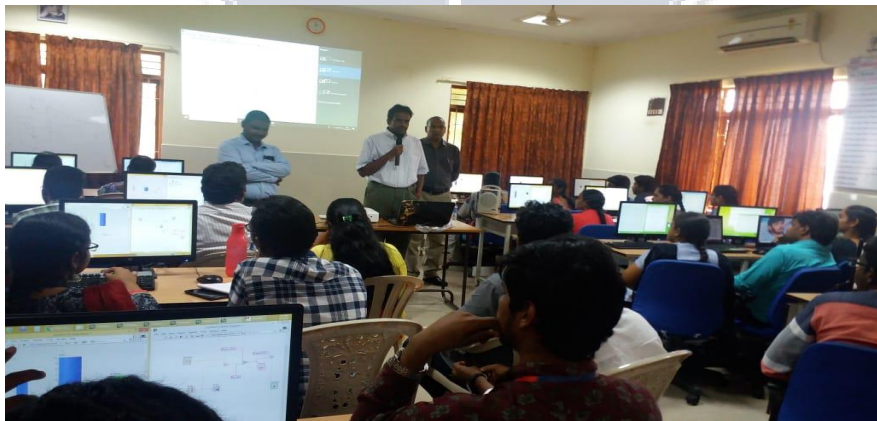


- viii.** An awareness program was conducted on **Higher Education opportunities in SRI SRI University, Odisha** for IV B.Tech. students on 3rd August, 2018.

Resource Persons: Mr. G.R. Anoop, Ms. Madalasa, Mr. Mahesh, & Ms. Saathwika

- ix.** AP Information Technology Authority (APITA) in Association with National Instruments (NI), Bangalore conducted a 3 – day workshop on **NI LABVIEW** for the first round shortlisted Students & Mentors of Krishna & Guntur districts during 01st - 03rd August, 2018. This is a competition on Industrial IOT Project Ideas.

Co-ordinator: Dr. A. Geetha Devi, Associate Professor



- x.** ISTE Student Chapter of ECE Dept. organized **Technical Quiz** event for the II Year ECE students on 4th August, 2018. 40 students participated in this event.

Co-ordinators: Mrs. K. Aruna Kumari, Sr. Assistant Professor

Mrs. Ch. Sri Lakshmi, Assistant Professor

Judge: Dr. T. Haritha, Associate Professor

xi. On the occasion of **Engineers' day** the ISTE Chapter of ECE Department organized events on 15th September, 2018.

i) Innovative Ideas Presentation

ii) Circuitrix and

iii) Techno JAM

ISTE Co-ordinators:

Mrs. K. Aruna Kumari, Sr. Assistant Professor

Mrs.Ch. Srilakshmi, Assistant Professor

i. In '**Innovative Ideas Presentation**' contest - 26 students participated.

Event Co-ordinator: Dr. K. Ramanjuneyalu, Professor

Judge: Mr.M.Srinivasa Rao, Associate Professor



ii. In '**Circuitrix**' contest - 67 students participated.

Event Co-ordinator: Mr. B.Surya Prasada Rao, Associate Professor

Judge: Dr.Ch.Gangadhar, Associate Professor



iii. In '**Techno JAM**' contest - 26 students participated.

Event Co-ordinator: Mrs. K.Anitha, Associate Professor

Judge: Dr. T. Haritha, Associate Professor

iv. On the occasion of **Engineers' Day, 15th September, 2018 School Connect Program & Model Expo** was conducted. 1,223 students from different schools were participated.

Chairperson: Dr.P.Rajesh Kumar, Professor & HoD

Faculty Co-ordinators and Support Staff Members:

1. **Mr.J.Ravindra Babu**, Associate Professor, ECE
2. **Mr.T.Balaji**, Sr. Assistant Professor, ECE
3. **Mr.Md.Habibulla**, Sr. Assistant Professor, ECE
4. **Mr.B.Balaji**, Assistant Professor, EEE
5. **Mr.B.Bala Saibabu**, Assistant Professor, EEE
6. **Mr.C.S.Abdul kalam**, Assistant Professor, AE
7. **Mr.K.Venkata Rao**, Assistant Professor, ME
8. **Mr.I.M.V.Krishna**, Assistant Professor, CSE
9. **Mr.K.Vijay Kumar**, Assistant Professor, CSE
10. **Mr.Ch.Murali Mohan**, Sr. Assistant Professor, FED
11. **Mr.T.D.Ravi Kiran**, Assistant Professor, IT
12. **Mrs.P.Padmaja**, Assistant Professor, FED
13. **Mr.Ch.Kishore Reddy**, Assistant Professor, MBA
14. **Mr.S.N.Prashanth**, Assistant Professor, CE
15. **Mr.G.Rambabu**, Embedded Engineer, ECE
16. **Mr.V.Bharath Kumar**, Lab Technician, ECE
17. **Mr.P.Koteswara Rao**, Lab Technician, ECE



xii. A guest lecture was conducted on **CMOS Analog and Digital VLSI Design** on 18th September, 2018 for selected students.

Resource Person: Mr.Damodar,

Manager, Entuple Technologies, PVT Ltd.,

Faculty Co-ordinators:

1. Dr. Ch. Gangadhar, Associate Professor
2. Mrs.D.Praveena bai, Assistant Professor

xiii.A Three day training program was conducted on **Embedded Thorough IOT** by ECE Dept. in association with APSSDC for selected students of III Year during 24th – 26th September, 2018.

Staff Co-ordinators: Mr.Md. Habibulla, Sr.Assistant Professor
Mr. G. Rambabu, Embedded Engineer

xiv.An Expert talk was organized on **Road Ahead for Engineering Students in Industry** for II B.Tech. students on 6th October, 2018.

Resource Person: Mr.D. Anvesh, Executive Manager,
Efftronics Pvt. Ltd., Vijayawada.

Faculty Coordinator: Dr. T. Haritha, Associate Professor



xv.An expert lecture was conducted on **Intersection of Algebra and Optimization Theory** and a research interaction with the faculty related to Signal & Image Processing on 24th November, 2018 for III B.Tech. ECE students and faculty.

Resource Person: Dr.C.S.sastry, Associate Professor, IIT Hyderabad.



xvi. A 3-day Training Program was conducted on **NI CLAD EXAM TRAINING** during 22nd - 24th November, 2018 for the students and staff of ECE & EEE Depts.

Resource Person: Mr. A. Satish Kumar, Senior Application Engineer,
VI Solutions, Bangalore.

Faculty Participants:

Dr. A. Geetha Devi (Co-ordinator), Associate Professor

Mr. J. Ravindra Babu, Associate Professor

Ms. T. Sushma, Assistant Professor

Mrs. D. Hareesha, Assistant Professor

Mrs. B. Swathi Lakshmi, Assistant Professor

xvii. One day training program was conducted on **FPGA Vision Bundle** on 25th November, 2018 for III B.Tech., ECE (only for selected students) and some faculty members.

Resource Person: Mr. SarathKanth,

Sr. Application Engineer, Entuple Technologies, Hyderabad.

xviii. A guest lecture was conducted on **Sensors for Internet of Things (IoT)** on 13th December, 2018 for III B.Tech. ECE Students.

Resource Person: Mr.G.Krishna Prasad,

Design Engineer, Conservision Systems, Hyderabad.



xix. NI-CLAD Examination has been conducted for 14 ECE students on 21st December, 2018. So far 11 students obtained CLAD certification from our department LABVIEW Academy.

Co-ordinator: Dr. A. Geetha Devi, Associate Professor

xx. A guest lecture was conducted on **Latest Technology and Advances in U.S.A** on 24th December, 2018 for III B.Tech. ECE Students.

Resource Person: Mr. Guduru Sandeep,

Alumni, 2008 Passed out batch student

Co-ordinators: Mrs. V. RatnaKumari, Assistant Professor

Mrs. B.SwathiLakshmi, Assistant Professor

Mrs.D. Swathi, Assistant Professor



xxi. A guest lecture was conducted on **Opportunities for B.Tech. Students in Honeywell Technologies** on 29th December, 2018 for III B.Tech. ECE students.

Resource Person: Mr. D.D.V. Hanumantha Rao,

Technology Specialist, Honeywell Technologies, Bangalore.



2. WORKSHOPS / SEMINARS / CONFERENCES / FACULTY DEVELOPMENT

PROGRAMS ATTENDED BY THE FACULTY:

i. In AP-ICTIEE – 2018, International Conference on Transformation on Engineering Education, **Dr.K.Ramanjaneyulu**, Professor attended a workshop on **Outcome Based Education Platform**. **Dr.K.Ramanjaneyulu**, Professor, &**Mr. T. Balaji**, Sr. Assistant Professor also coordinated our students for a Poster Presentation on **Smart Watering system** as a part of EPICS Program at SRM University, Amaravathi on 16th & 17th July, 2018.

ii. The following **15** faculty members attended one week ICT based Faculty Development Program on **VLSI Design** conducted by NITTTR Chandigarh, organized by dept. of ECE during 24th – 28th September, 2018 at PVPSIT knowledge Centre.

1. **Dr. T. Haritha**, Associate Professor
2. **Mrs. K. Anitha**, Associate Professor
3. **Mr. B.Surya Prasada Rao**, Associate Professor
4. **Mrs. K. Aruna Kumari**, Sr. Assistant Professor
5. **Mr. T. Balaji**, Sr. Assistant Professor
6. **Mrs. D. Hareesha**, Assistant Professor
7. **Mrs. B.V. Subbayamma**, Assistant Professor
8. **Ms. T. Sushma**, Assistant Professor
9. **Mrs. V.S.D. Rekha**, Assistant Professor
10. **Mrs. L. Madhavi Devi**, Assistant Professor
11. **Mrs. D. Swathi**, Assistant Professor
12. **Mrs. Ch.Sri Lakshmi**, Assistant Professor
13. **Mrs. D. Praveena Bai**, Assistant Professor
14. **Mr. P. Venumadhav**, Assistant Professor
15. **Mr. A. Ashok Babu**, Assistant Professor

iii. Following faculty members attended seminar on **IPR7 Patents** on 29th September, 2018 conducted by ISTE faculty chapter in association with IQAC.

Resource Person: Mr. K. Ravindra Nath,

Manager, SUTech Patent art services Pvt. Ltd., Hyderabad

Faculty Participants:

1. **Dr. T. Haritha**, Associate Professor
 2. **Mrs. K. Anitha**, Associate Professor
 3. **Mrs. K. Aruna Kumari**, Sr. Assistant Professor
 4. **Ms. T. Sushma**, Assistant Professor
 5. **Mrs. V.S.D. Rekha**, Assistant Professor
 6. **Mrs. D. Swathi**, Assistant Professor
 7. **Mrs. L. Madhavi Devi**, Assistant Professor
 8. **Mrs. Ch.Sri Lakshmi**, Assistant Professor
 9. **Mrs. D. Praveena Bai**, Assistant Professor
- iv. **Mrs. K. Aruna Kumari**, Sr. Assistant Professor attended a 2 day workshop on **Virtual Labs and Remote Labs** organized by APSSDC in collaboration with IUCEE at NRI Institute of Technology, Nunna on 27th & 28th September, 2018.
- v. The following faculty members attended a Seminar on **Awareness on Research and Development Activities** on 6th October, 2018 at PVPSIT.

Resource Person: Dr. Trimurthy

Faculty Attended:

1. **Dr. K. Ramanjaneyulu**, Professor
 2. **Mrs. V. RatnaKumari**, Assistant Professor
- vi. **Ms. T.Sushma**, Assistant Professor attended **Cardio Pulmonary Resuscitation Training Programme** conducted by MBA Department in association with Nagarjuna Hospitals on 23rd October, 2018 at PVPSIT.
- vii. **Mrs. B.V. Subbayamma**, Assistant Professor & **Mrs. D. Swathi**, Assistant Professor attended a two day workshop on **Leadership opportunities for Professional Women** at Efftronics Pvt.Ltd. during 26th - 27th October, 2018.

Resource Person: Mrs. K. Sravani, ACP, Vijayawada.

- viii. **Mrs. D. Hareesha**, Assistant Professor and **Mrs. L. Madhavi**, Assistant Professor attended a one week Faculty Development Program on **Recent Advances in Communications and Signal Processing** organized by E&ICT Academy, NIT Warangal and NRI Institute of Technology during 29th October, 2018 - 4th November, 2018.

Resource Persons:

1. **Prof. GVVS Sarma**, IITH, Hyd.

2.Mr. Suresh, VI Solutions

3.Dr.V. Anil kumar, IIIT, Hyd.

4.Dr. Swagatham Das, ISI, Kolkata

ix. Dr. K. Ramanjaneyulu, Professor attended one day seminar on **Digitization Vs Digital based Analysis** in collaboration with TCS under AICTE MARGDARSHAN held on 31st October, 2018 organised by VRSEC, Vijayawada.

x. Following faculty members attended one day workshop on **VLSI Design and Challenges** on 17th November, 2018 sponsored by AICTE under Magadarshan scheme & organized by the ECE, VRSEC.

Resource Persons:

1. Dr. A.R. Aravind Kumar, R&D Engineer, Redpine Systems, Hyderabad

2. Mr. PramodKaddi, Design Engineer, R&D Division, Samsung, Session

Director India – Bangalore

Faculty Attended:

Dr. Ch. Gangadhar, Associate Professor

Mr. B. Surya Prasada Rao, Associate Professor

Mrs. Ch. Sri Lakshmi, Assistant Professor

xi. Mr. A. Ashok Babu, Assistant Professor attended a one week Faculty Development Program on **Information Theory and Coding Application** organized by E&ICT Academy, NIT Warangal during 21st - 26th November, 2018.

xii. Dr. T. Haritha, Associate Professor attended a one day workshop on **Industry 4.0** organized by Entrepreneur Cell and Institution Innovation council of PVPSIT on 28th November, 2018.

Resource Persons:

1. Mr. D. Rama Krishna,

Managing Director, M/s. Efftronics Pvt. Ltd., Vijayawada.

2. Ms.Bhavani, Sr. Executive Engineer, Efftronics Pvt. Ltd., Vijayawada.

xiii. Mrs. V. Ratna Kumari, Assistant Professor, Mrs. B.V. Subbayamma, Assistant Professor, Mrs. L. Madhavi Devi, Assistant Professor and Mrs.D.Swathi, Assistant Professor attended a two day hands on workshop on **PCB Design and Prototype development** organized by the department of Electronics and Communication Engineering, Vellore Institute of Technology, A.P. during 8th - 9th December, 2018.

- xiv. Following staff members attended one day workshop on **Digital Health Interventions** organized by Dept. of Medical education at Dr. Pinnamaneni Siddhartha Medical Science and Research Foundation, Chinautupally on 22nd December, 2018.

Faculty Attended:

Mr. M. Srinivasa Rao, Associate Professor

Mrs. K. Anitha, Associate Professor

Mr. B. Surya Prasada Rao, Associate Professor

Mrs. B.V. Subbayamma, Assistant Professor

Ms. T. Sushma, Assistant Professor

Mrs.V.S.D. Rekha, Assistant Professor

3. PAPERS PRESENTED IN SEMINARS / CONFERENCES / SYMPOSIUMS BY THE FACULTY:

- i. **Dr.K.Ramanjaneyulu**, Professor presented a paper entitled **Innovative Approaches for Effective Teaching in Engineering Education** in AP-ICTIEE – 2018, International Conference on Transformation on Engineering Education at SRM University, Amaravathi on 16th&17th July, 2018.
- ii. **Dr. C. Subba Rao**, Professor presented a research paper entitled **Design and Analysis of a Wideband Ecliptic Cone Antenna** - International Conference on New Trends in Engineering and Technology (ICONTET) - on 7th& 8th September – 2018 conference proceedings: ISSN:CFP18P34 – PRT/978 – 1-5386 – 5628-7.
- iii. **Dr. K. Ramanjaneyulu**, Professor presented a paper entitled **Performance Analysis of Joint Turbo Coding for Overloaded MIMO-OFDM Systems** - International Conference on Recent Trends in Automation (ICRTA-18) held at Vasireddy Venkatadri Institute of Technology (VVIT), Guntur, on 15th November 2018.
- iv. **Mr. K.Phani Rama Krishna**, Assistant Professor & **Mr. Md. Habibulla**, Sr. Assistant Professor presented a paper **Optimal LIC using NI My DAQ** in 3rd International Conference on Research Trends in Engineering, Applied source & Management held at Osmania University campus Hyderabad organized in association with Academic Science on 4th November, 2018.

- v. **Mrs. K.ArunaKumari**, Sr.Assistant Professor presented a paper **PAPR lessening execution, BER execution and computational complexity nature with less complexity**- International Conference on Research Trends in Engineering, Applied Science and Management organized by Conference info. in association with Academic Science at Osmania University, Hyderabad organized in association with Academic Science on 16th December, 2018.

4. PUBLICATIONS BY THE FACULTY (NATIONAL/INTERNATIONAL JOURNALS & CONFERENCES):

- i. **Mr. B.Samyelu**, Sr.Assistant Professor published a paper entitled **Deterministic Initialization principle for Normalized Sub band Filtering**- International Journal of Signal and Imaging Systems Engineering, Vol:11, No:4; PP 246-257, Available online from 27 July 2018.
- ii. **Dr. Ch.Gangadhar**, Associate Professor & **Mr.Md.Habibulla**, Sr.Assistant Professor published a paper entitled **Novel Rate Improvement Technique using Non – Orthogonal Multiple Access For 5g Systems** - Journal of Advanced Research in Dynamical of Control systems- special issue (Scopus Index Journal); ISSN:2349, August, 2018.
- iii. **Dr. C. Subba Rao**, Professor presented a research paper entitled **Design of Resonance frequency variable Dipole Antenna** – Journal of Engineering Technologies and Innovative Research- Vol:5; Issue:8; ISSN:2349-5162,UGC approved, August, 2018.
- iv. **Mrs. K. Aruna Kumari**, Sr. Assistant Professor et.al published a paper entitled **Paper Reduction in MIMO – OFDM using Modified PTS Scheme with Hybrid ABC-FF Algorithm** - International Journal of Engineering & Technology, Volume – 7 published on 22.09.2018 (Scopus Indexed Journal) pages : 423-427.
- v. **Mrs. K. Anitha**, Associate Professor & **Mr. M. Srinivasa Rao**, Associate Professor published a paper entitled **FPGA Based Controlled Design for mobile Robots** - International Research Journal of Engineering and Technology, Volume -5, Issue -10, PP:1494-1498, e-ISSN: 2395 – 0056, P-ISSN:2395 – 072,October – 2018.

- vi. **Mr. M. Srinivasa Rao**, Associate Professor & **Mrs. K. Anitha**, Associate Professor published a paper entitled **Improved Performance of Turbo Codes using Interactive Decoding with Additional Convolutional Interleaver** - Journal of Engineering Technologies and Innovative Research Volume – 5, Issue-10, PP:373-378, ISSN: 2349-5162 (UGC Approved Journal) October – 2018.
- vii. **Mrs. Ch. Sri Lakshmi**, Assistant Professor & **Mrs. D. Praveena Bai**, Assistant Professor published a paper entitled **A Simple Application of FM 0 Encoding in DSRC Applications** - JETIR,(UGC Approved) ISSN:2349-5162; Vol.5, Issue 10, Impact factor : 5.87; October - 2018.
- viii. **Mrs. D. Praveena Bai**, Assistant Professor & **Mrs. Ch. Sri Lakshmi**, Assistant Professor published a paper entitled **Wireless Switch using JK Flip-Flop** - JETIR, (UGC Approved); ISSN:2349-5162;Vol.5, Issue 10, Impact factor : 5.87, October - 2018.
- ix. **Mr. M. Srinivasa Rao**, Associate Professor and **Mrs K. Anitha**, Associate Professor published a paper entitled **Improving the uplink available rate and power allocation in LTE – Advanced Networks** - International Journal of Engineering and Science Research, Vol.8, Issue – 10, PP-3642, ISSN:2277-2685 (UGC approved journal) Impact factor : 6.6, October – 2018.
- x. **Dr. K. Ramanjaneyulu**, Professor published a paper entitled **A Novel Compact CPW-FED Antenna for Ultra Wideband Applications** - International Journal of Innovation Engineering and Management Research (IJIEMR), Vol.07, Issue-12, November -2018.
- xi. **Dr. K. Ramanjaneyulu**, Professor et al., published a paper entitled **An Efficient BER for Secure Encoder based Turbo Codes** - Journal of Advanced Research in Dynamical & Control Systems, Vol. 10, 12-Special Issue, 2018 ISSN:1943 -023X, November -2018.

- xii. **Dr. K. Ramanjaneyulu**, Professor published a paper entitled **A survey of Interleaving Techniques in Turbo codes** - International Journal of Engineering & Technology, 7 (4) (2018) 2949-2952 (open access), November -2018.
- xiii. **Mrs. K. Anitha**, Associate Professor and **Mr. M. Srinivasa Rao**, Associate Professor published a paper entitled **Discrete Extended kalman Filter Based ultrasonic Time –of-flight Estimation** - International Journal of Engineering Research and Application, Vol-8, Issue-11 (part-1) PP 31-37, ISSN: 2248-7622 (UGC Approved Journal), November - 2018.
- xiv. **Dr. A. Geetha Devi**, Associate Professor and **Mr. B. Surya Prasada Rao**, Associate Professor et al. published a paper entitled **A Method of Super Resolution Reconstruction for surveillance Images using Fuzzy Interpolation** - International Journal of Research and Analytical Reviews (IJRAR) EISSN:2348-1269 (IPTR) Vol.5, Issuing, PP.103-109, (UGC Approved Journal) November – 2018.
- xv. **Dr. A. GeethaDevi**, Associate Professor, **Mr. B. Surya Prasada Rao**, Associate Professor and **Mr. T. Balaji**, Sr.Assistant Professor published a paper entitled **Principal Component Analysis based super Resolution Image Reconstruction** - Journal of Emerging Technological and Innovative Research, Vol:5, PP:577-582, ISSN:2349-5162 (UGC Approved Journal), November – 2018.
- xvi. **Dr. A. GeethaDevi**, Associate Professor and **Mr. B. Surya Prasada Rao**, Associate Professor et al. Published a paper entitled **A Fuzzy rule based framework for super resolution image reconstruction** - Journal of Emerging Technologies and innovative Research Vol.5, Issue-11, PP:222-231, ISSN:2349-5162. (UGC Approved Journal), November-2018.
- xvii. **Mr. K.Phani Rama Krishna**, Assistant Professor and **Md. Habibulla**, Sr. Assistant Professor published a paper entitled **Implementation of DEEC protocol using optimization Technique in wireless sensor technology** – International Journal on Future Revolution in Computer Science and Communication Engineering, Vol:4; Issue:11; Pages: 86-90,November-2018.

- xviii. **Dr. B. Samuyelu**, Sr. Assistant Professor etal. published a paper entitled **Memories error and varying error bound for extending adaptiveness for normalized sub band adaptive filtering** - Alexandria Engineering Journal, Vol:57; Issue:4; Pages: 2445-2453, December – 2018.
- xix. **Mrs. V. Ratna Kumari**, Assistant Professor Published a paper entitled **A Robust Ear Recognition System** - JETIR, Vol:5; Issue-12; Pages:102 – 106; December – 2018.
- xx. **Mrs. L. Madhavidevi**, Assistant Professor published a paper entitled **EEG Signal Processing for Abnormality Detection using DWT, SE and KNN Techniques** - JETIR, Vol:5; Issue:9; Pages:88-99; December – 2018.
- xxi. **Mr. K.Phani Rama Krishna**, Assistant Professor etal. published a paper entitled **Implementation of Dual Hop concept in DEEC protocol** - IJRECE, Vol:06; Issue:4; (UGC Approved Journal), December – 2018.

5. FACULTY ACHIEVEMENTS (HIGHER QUALIFICATION AWARDED, GUEST LECTURES GIVEN, AWARDS AND REWARDS, Etc.):

- i. **Mrs. V.Ratna Kumari**, Assistant Professor presented a project **Design and Development of Embedded Ear Recognition system** at Jnanabheri organized by AP State Council of Higher Education on 20th September, 2018.



- i. **Dr. P. Rajesh Kumar**, Professor is elevated as a Senior Member of the IEEE on 29th October, 2018. In receiving this honor, he joined a select few less than 10% of IEEE members.

- ii. **Mr. B. Samuyelu**, Sr. Assistant Professor awarded Doctor of Philosophy (Ph. D) in the Area/field of **Signal Processing** on 05th October, 2018 from Andhra University, Visakhapatnam.
- iii. **NPTEL online certification course** was conducted by IIT, Kanpur from July – October 2018. Exam was conducted on 28th October, 2018. 8 faculty registered for different courses. Following are the details of certified faculty.

Sl.No	Name Of The Faculty	Course Name	Final Score	Certificate Type
1	V. Ratnakumari	Digital Image Processing	90	Elite+gold
2	T. Mahalakshmi	Op-Amp Practical Applications: Design, Simulation and Implementation	48	Successfully completed
3	Srilakshmi Chandana	Digital Circuits	72	Elite
4	Madhavi Devi Lanka	Digital Circuits	40	Successfully completed
5	D. Praveena Bai	Digital Circuits	70	Elite
6	K. Phani Rama Krishna	Introduction to Wireless and Cellular Communications	65	Elite
7	Madhavi Devi Lanka	Introduction to Wireless and Cellular Communications	52	Successfully completed

6. FACULTY PARTICIPATION (AS A JUDGE, GUEST, BOS MEMBER & CHAIRING A SESSION, Etc.):

- i. **Dr. K. Ramanjaneyulu**, Professor attended as a Session Chair at International Conference on Recent Trends in Automation (ICRTA-18) held in Vasireddy Venkatadri Institute of Technology (VVIT), Guntur, on 15th November 2018.
- ii. **Mr. B. Surya Prasada Rao**, Associate Professor delivered an expert talk on **Research Challenges in Medical Imaging** in one day workshop on Digital Health Interventions organized by Dept. of Medical Education, Dr. Pinnamaneni Siddhartha Medical Science and Research Foundation, Chinautupally on 22nd December, 2018.

7. INDUSTRIAL VISITS:

- i. III B.Tech. ECE Students visited Dooradarshan Kendra (Studio & Transmitter unit) kondapalli. Sec.1 on 5th September, 2018 & Sec.2 on 10th September, 2018.

The following faculty accompanied the students.

Section – 1

Mr.Md. Habibulla, Sr. Assistant Professor

Mrs. T. Maha Lakshmi, Assistant Professor

Mr. G. Rambabu, Embedded Engineer

Mr. P. Koteswara Rao, Lab Technician

Section - 2

Mr. T. Balaji, Sr. Assistant Professor

Mrs. D. Swathi, Assistant Professor

Ms. L Ratnanjali, Lab Technician



- ii. III B.Tech. students visited:

1. HAL Heritage Centre and Aerospace Museum Bangalore

2. Visweswarayya Industrial and Technological Museum Bangalore & Prof. V. V. Rao Satellite Centre, Bangalore during 13th - 15th December, 2018.

The following staff accompanied the students:

Mrs. V.S.D. Rekha, Assistant Professor

Mr. P. VenuMadhav, Assistant Professor

Ms. LahariRatnanjali, Lab Technician



8. STUDENTS' ACHIEVEMENTS:

a) Literary and Cultural Activities/Academic awards:

- i. On the eve of Dr. APJ Abdul Kalam birthday on 15th October - ISF of ECE department collected charity from staff and students (II year students) and donated Rice bags, accessories, fruits to the Amma Nanna - Old Age Home located at Kethanakonda on 25th October, 2018.

Staff accompanied :

1. **Dr. C. Subba Rao**, Professor
2. **Dr. T. Haritha**, Associate Professor
3. **Mr. G. Rambabu**, Embedded Engineer
4. **Mrs. K. Vijaya Lakshmi**, Lab Technician
5. **Mr. P. Koteswara Rao**, Lab Technician





b) Presentation/Participation in Seminars/Conferences/Workshops/Academic awards:

i. Our students projects **Rural Warehouse Monitoring System&Smart Watering System** were selected for Project Expo at Regional Convention for AICTE-ECI-ISTECHatra Vishwakarma Awards 2018.

ii. **TECHWIZARD-2018** was conducted on 31st July, 2018 under IETE Students' Forum. Technical Events like **HUNKYBRAINS, WORK THE NETWORK, FOCUS AND QUIZE-BEE** were conducted. I, II & III B.Tech. ECE, EEE students participated.

1. In '**HUNKYBRAINS**' contest

S.No.	Name of The Student	Year of Study	Prize
1	D.V.Sai Janavi	I	I
	S.K.Naga Sameer	II	
	N.Tarak Satya	III	
2	K.Swaroop	I	II
	B.Manohar Krishna	II	
	G.Trilok	III	
3	K.Jashwanth Raghu	I	III
	R.Venkat	II	
	D.Vishwa data	III	

2. In ' **WORK THE NETWORK** ' contest

S.No.	Name of The Student	Year of Study	Prize
1	N.Jaya Karthik	I	I
	P.V.Meghna	II	
	G.V.Vijaykumar	III	
2	P.V.Srinivas	I	II
	Md. Fareeda Madeen Gouher	II	
	G. Prabhu Kiran	III	
3	V. Mohan Subrahmanyam	I	III
	K.Pranay Sagar	II	
	G.Hanitha Devi	III	

3. In ' **FOCUS** ' contest

S.No.	Name of The Student	Prize
1	S.N.V.Udaya Ram	I
	Ch.Laksmi Harini	
	A.Sri Sai Poojitha	
2	D.Jyothsna Devi	II
	A.V.S.Raghunath	
	A.Sai Kuldeep	
3	A.L.Hemanth Kumar	III
	V.Jaya Lakshmi	
	S.Yaswanth	

iii. On the occasion of **Engineers' day on 15th September,2018** the ISTE Chapter of ECE Department organized events. Following are the details of the prize winners.

1. In ' **Innovative Ideas Presentation** ' contest

S.No.	Name of The Student	Year of Study	Prize
1	N.Avinash	III	I
2	M.R.K.S.N.Sai	IV	II
3	G.Pavan Teja Tiwari	III	III
	A.Hemanth	III	

2. In 'Circuitrix' contest

S.No.	Name of The Student	Year of Study	Prize
1	T.Mahesh Kumar	III	I
	R.Poojitha	II	
2	Y.Roshini	III	II
	B.Bhagya Lakshmi	II	
3	M.Venu Bhargavi	III	III
	Abdul Fayaz	II	

3. In 'Techno JAM' contest

S.No.	Name of The Student	Year of Study	Prize
1	P.Satvik Bhargav	II	I
2	M.R.K.S.N.Sai	IV	II
3	A.D. Sudha	II	III

iv. **M.Rama Krishna Sai**, IV B.Tech. presented a paper **Optimal LIC using NI My DAQ** in 3rd International Conference on Research Trends in Engineering, Applied source & Management. Held at Osmania University campus Hyderabad on 4th November, 2018. Organized in association with Academic Science.

v. **NPTEL online certification course** was conducted by IIT, Kanpur from July – October 2018. Exam was conducted on 28th October, 2018. 58 students registered for different courses. Following are the details of certified students.

S.No	Name of the Student	Register No	Final Score	Certificate Type
Course Name: Switching Circuits And Logic Design				
1	TatavarthiVenkata Sai Teja	17501A04A9	65	Elite
2	PamarthiAdithya	17501A0479	51	Successfully completed
3	Umesh Kumar Naik Mudavath	17501A04B2	46	Successfully completed
4	Hamsala GeethaSeshaHarika	17501A0441	50	Successfully completed
5	Mohan Krishna Bayana	17501A0468	47	Successfully completed
6	Baby Harshitha	17501A0449	45	Successfully completed
7	SilpaSudharshini	17501A0452	47	Successfully completed
8	Tejasree	17501A04A4	49	Successfully completed

9	SudulaNeelavathi	17501A04A6	41	Successfully completed
10	Polaki.Bhargav	17501A0486	43	Successfully completed
11	N.Gopi Krishna Reddy	17501A0471	60	Elite
12	Piduru.Venkat	17501A0483	60	Elite
13	Deepika.Gattupalle	17501A0421	44	Successfully completed
14	JanjanamVijayaSree	17501A0443	53	Successfully completed
15	Jyothsna Devi Devineni	17501A0423	62	Elite
16	SathvikBhargav	17501A0482	52	Successfully completed
17	Boppa Yuva Sri Lakshmi Anjanavathi	17501A0411	78	Elite
18	Ayinapuru Dharani Sudha	17501A0404	64	Elite
19	B.Bhagya Lakshmi	17501A0412	69	Elite
20	KogiliPranaysagar	17501A0451	54	Successfully completed
21	Devarapu Srikanth	17501A0422	47	Successfully completed
22	Syed Abdul Rahaman	17501A04A7	47	Successfully completed
23	Durgasailavanyasenaga varapu	17501A0428	56	Successfully completed
24	Ch.Achyuth	17501A0417	63	Elite
25	MannamGopiChandana	17501A0462	45	Successfully completed
26	BoyapatiVivek	17501A0413	40	Successfully completed
27	PulipatiVenkata Naga Durga Sai Meghana	17501A0488	60	Elite
28	VusaLikhitaUttam	17501A04B5	50	Successfully completed
29	Abdul Fayaz	17501A0401	51	Successfully completed
30	Jonnala.Sravya	17501A0444	51	Successfully completed
31	Batta Harish	17501A0405	51	Successfully completed
32	Sai Bhargav Reddy	17501A0409	46	Successfully completed
33	Dasari Chaitanya Sai Likhitha	17501A0419	54	Successfully completed
34	Sagi Sri Harshitha	17501A0494	44	Successfully completed
35	MandhapatiAnithaCho wdary	17501A0461	46	Successfully completed
36	B.SaiCherishma	17501A0406	52	Successfully completed
37	DivvelaJahnaviKumari	17501A0425	49	Successfully completed
38	Sk.Nag Sameer	17501A04A0	50	Successfully completed
39	Tangellamudi. Sai Charitha	17501A04A8	55	Successfully completed
40	YanamadalaSamhitha	17501A04B9	58	Successfully completed
41	Mohammad FareedaMadeenGouher	17501A0467	61	Elite
42	ParuchuriRavikiran	17501A0480	58	Successfully completed
43	RapartiPratyusha	17501A0491	47	Successfully completed
44	Lakshmi Mareedu	17501A0463	43	Successfully completed
45	PoojithaRavuri	17501A0493	44	Successfully completed
46	Sayed BasheeraGulshan	17501A0497	43	Successfully completed
47	Parvatham Sai MaruthiKavya	17501A0481	63	Elite

48	R.V.V.Tejasri	17501A0490	40	Successfully completed
49	Shaik ArshiyaSiddika	17501A0498	50	Successfully completed
Course Name: Analog Communication				
50	YelchuriRoshini	16501A04C0	57	Successfully completed
51	NidraTaraka Satya Raju	16501A0483	55	Successfully completed

vi. Our students project ideas have been shortlisted for AICTE Viswakarma Awards – 2018. They displayed prototypes in project exhibition at SRKR College of Engineering on 19th November, 2018.

1. Smart Watering System

K.Naveen -Reg No. 15501A0443

G. Hemanth Raja- Reg No. 15501A0433

D.C.Sai Kumar- Reg No. 15501A0425

B.Vamsi Ram Charan- Reg No. 15501A0411

2. Warehouse monitoring System

D.Subramanyam - Reg No. 15501A0423

B.SaiAkhil - Reg No. 15501A0409

B.Ganesh Kumar - Reg No. 15501A0429

K. Somasekhar - Reg No. 15501A0448

9. Others:

i. Parents Meetings was conducted for III & IV years students on 6th September, 2018.



ii. Parents Meetings was conducted for II years students on 20th September, 2018.



iii. Alumni meeting was conducted on 22nd December, 2018 with ECE students to discuss about present course structure of B.Tech. (ECE) and proposed modifications to the course structure.



iv. BOS Meeting was conducted on 29th December, 2018 to discuss about course structure for 2019-20 batch students i.e. PVP-19

Members Attended:

1. **Mr. D.D.V. Hanumantha Rao,**
Technology Specialist, Honeywell Technologies, Bangalore
2. **Dr. B. Chanrda Mohan, HOD., ECE,**
Bapatla Engineering College, Bapatla



