



# ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES

(Permanently Affiliated to AU, Approved by AICTE & Accredited by NBA)

Sangivalasa-531162, BheemunipatnamMandal, Visakhapatnam Dt.

Phone: 08933- 225084.226395

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### DEPARTMENT QUARTERLY NEWS LETTER

[SEPTEMBER 2017 - NOVEMBER 2017]



#### GUEST LECTURE ON FUNDAMENTALS AND ADVANCES IN COMMUNICATIONS

A Guest Lecture on “**Fundamentals and Advances in Communications**” by Dr.P. SrihariRao, Associate Prof., Dept. of ECE, NITW, Warangal conducted on 9th September 2017 by the Department of ECE, ANITS for II/IV , III/IV B.E ECE students and faculty. In this Program Dr.P. SrihariRao discussed about the basics of communications to present days 5G communications. He guided the students towards issues and revolutionary changes taken place in the area of communications.



#### GUEST LECTURE ON TORPEDO ENGINEERING

A Guest Lecture by Mr.P.Trimurthulu, Scientist-G, Project Director (Varunastra & ALWT), NSTL, which is arranged for the benefit of faculty and students on “**Torpedo Engineering**” which is organized by Antennas and Microwave Group of the department of ECE in association with & IETE Student Forum on 31.10.2017. Dr.V.Rajya Lakshmi, Professor, HOD,

Department of ECE had presided the event. In this he delivered lecture on control systems, batteries & laser guidance involved in design of varunastra which is indigenous product as a part of Make in India. Final year students and Faculty of ECE had participated in this event.



#### ONE DAY WORKSHOP ON “LABVIEW AND ITS APPLICATIONS”

The Department of ECE, ISF of ANITS organized the **one day workshop on “LabVIEW and its Applications**” on 08-10-2017. Mr.Vasanth Kumar V, Sr. Applications Engineer, VI Solutions, Bangalore and Mr.Esakki Raja S, Sr. Applications Engineer, VI Solutions, Bangalore has delivered about the introduction to LabVIEW and its applications in education and research. Hands on training on LabVIEW session was conducted by Mr.J.BhaskaraRao, Asst. Prof., ECE, Mr.A.Siva Kumar, Asst. Prof., ECE, and Mr.R.Ravi Kumar, Asst. Prof., ECE, ANITS. After hands-on training mini project was given on the design of DTMF keypad (Virtual DTMF Keypad) using LabVIEW. 75 students from ECE are participated in this workshop.



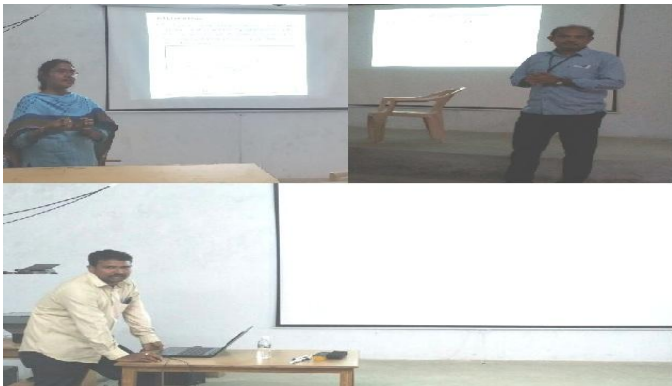
#### PARENTS MEETING

The Department of ECE, ANITS conducted the **Parents Meeting** for III/IV ECE and II/IV ECE parents on 16<sup>th</sup> September 2017 and 23<sup>rd</sup> September 2017. 67 parents (27 from III/IV ECE and 39 from II/IV ECE) attended the meeting. HOD introduced the faculty to parents and created the awareness for OBE system to parents. An open discussion was conducted and parents expressed their suggestions like to conduct GATE orientation classes and SMS reports regarding MID exam marks towards the betterment in regular assessment systems. The program was ended with a Lunch.



### ORIENTATION PROGRAMME FOR FIRST YEAR STUDENTS

Orientation Program for First Year Students for the admitted batch 2017-18 was organized by department of ECE on 9<sup>th</sup> September 2017. HOD introduced the faculty and various facilities provided by the college to student in their four years of engineering life. A quiz program was conducted for the first year students. First year students were performed various activities like dancing and singing. Sports and Yoga club of ECE department conducted the sports for first year students.



### FACULTY SEMINAR

- Dr.K.Murali Krishna, Prof. ECE delivered a lecture on **“5G Technologies”** as a part of faculty Seminars in seminar hall, Dept of ECE on 23.09.2017.
- Mr.S.SrinivasAsst.,Prof., ECE delivered a lecture on **“Research Overview: Generic & Specific ”** as a part of faculty Seminars in seminar hall, Dept of ECE on 07.10.2017.
- Mr.R.Ravi Kumar Asst.,Prof., ECE delivered a lecture on **“Software Defined Radio Basics”** as a part of faculty Seminars in seminar hall, Dept of ECE on 14.10.2017.

- Mrs.P.S.M.VeenaAsst.,Prof., ECE delivered a lecture on **“Speech Encryption”** as a part of faculty Seminars in seminar hall, Dept of ECE on 21.10.2017.
- Mr.K.Vijay Kumar RajuAsst.,Prof., ECE delivered a lecture on **“Setup and Hold”** as a part of faculty Seminars in seminar hall, Dept of ECE on 28.10.2017.
- Mr.A.LakshmiNarayanaAsst.,Prof., ECE delivered a lecture on **“Wrong Decision Probability”** as a part of faculty Seminars in seminar hall, Dept of ECE on 04.11.2017.
- Mr.J.BhaskaraRaoAsst.,Prof., ECE delivered a lecture on **“Image Processing in Automation”** as a part of faculty Seminars in seminar hall, Dept of ECE on 11.11.2017.
- Mr.D.Anil Prasad Asst.,Prof., ECE delivered a lecture on **“Wideband Gap Semiconductors and Devices”** as a part of faculty Seminars in seminar hall, Dept of ECE on 18.11.2017.
- Mr.N.Ram Kumar Asst.,Prof., ECE delivered a lecture on **“DSP on FPGA: A Review”** as a part of faculty Seminars in seminar hall, Dept of ECE on 25.11.2017.

### FACULTY ACHIEVEMENTS

- Ms.P.Devi, Asst.Prof, ECE have received the **BEST PAPER AWARD** for the paper titled “A Compact Pattern Reconfigurable Antenna for WiMAX Application” in 2nd international conference on Micro-electronics , electromagnetic and telecommunications ICMEET-2017 organized by Dept. of ECE, BVRIT Hyderabad College of Engineering for Women, Hyderabad during 9th - 10th September 2017.

- Mr.B.ChandraMouli, Asst.Prof, ECE had **qualified** CBSE-UGC NET in November 2017.



- Mr.N.Srinivas Naidu, Asst.Prof, ECE had **qualified** CBSE-UGC NET in November 2017.



- Ms.K.Yasoda, Asst.Prof, ECE had **qualified** CBSE-UGC NET in November 2017.



- Mr.J.Bhaskar, Asst.Prof., ECE appointed as **Reviewer** for manuscripts in second International Conference on Advanced Computing and Intelligent Engineering(ICACIE-2017)

organized by Central University of Rajasthan, Ajmer, India during 23<sup>rd</sup>-25<sup>th</sup> November 2017.

#### **NPTELCERTIFICATION COURSE**

- Mr.D.Sampath Kumar, Asst.Prof.,ECE Completed NPTEL online Certification course in Estimation for wireless Communications: MIMO-OFDM, Cellular and Sensor Networks with a consolidated score of 84% (**Elite**) from IIT Kanpur in the duration July-September 2017(8 weeks).
- Dr.D.EswarChaitanya, Asst.Prof., ECE Completed NPTEL online Certification course in Estimation for wireless Communications: MIMO-OFDM, Cellular and Sensor Networks with a consolidated score of 82%(Elite) from IIT Kanpur in the duration July-September 2017(8 weeks).
- Mr.B.KiranPatrudu, Asst.Prof., ECE Completed NPTEL online Certification course in Principles of Communication Systems(PART-II) with a consolidated score of 75%(Elite) from IIT Kanpur in the duration July-September 2017(8 weeks).
- Mr.N.Srinivasnaidu, Asst.Prof., ECE Completed NPTEL online Certification course in Design for Internet Of Things with a consolidated score of 69%(Elite) from IIT Bangalore in the duration July-September 2017(8 weeks).
- Mr.S.BalaramaMurty, Assoc.Prof., ECE Completed NPTEL online Certification course in Design for Internet Of Things with a consolidated score of 61% (Elite) from IIT Bangalore in the duration July-September 2017(8 weeks).

#### **WORKSHOP's/ SEMINAR's/ FDP's ATTENDED BY FACULTY**

- Mr.R.Ravi Kumar, Asst.Prof., ECE has attended a Three Day Workshop on "**Recent Advances in Wireless Communications**" organized by Department of ECE, Vasavi College of Engineering, Ibrahimbagh, Hyderabad during 23<sup>rd</sup> – 25<sup>th</sup>, November 2017.

#### **FACULTY PAPER PUBLICATIONS IN JOURNAL**

- Dr.K.MuraliKrishna,Prof.,ECE has published a paper titled "**A Space Frequency Block Coded MIMO OFDM Channel Estimation Under Various Schemes of Modulation With Rayleigh, AWGN Channel States**" in an international Journal of Advanced Research in Dynamical and Control Systems, Issue 14, ISSN 1943-023X, PP:535-545 October 2017.
- Mr.S.Balarama Murthy, Assoc.Prof., ECE has published a paper titled "**Design Optimization of Radar Absorbing Materials Using Particle Swarm Optimization**" in an International Journal of Applied Metaheuristic Computing(IJAMC),

volume 8 issue 4,  
DOI:10.4018/IJAMC.2017100107, pp 113-132,  
October –November 2017.

- Mr.G.ViswanadhRaviteja, Asst.Prof.,ECE has published a paper titled "**Design of rectangular Micro-strip patch antenna employing Flipped Swastika Design for Wi-Max applications**" in an international Journal of IOSR-Journal of Electronics and communication engineering(IOSR-JECE), Vol:12, Issue:5, Ver:1,Sep-Oct 2017, PP:09-12, E-ISSN:2278-2834, p-ISSN:2278-8735.
- Mr.A.LakshmiNarayana, Asst.Prof., ECE has published a paper titled "**Bandwidth based handover probability analysis for beyond 4G heterogeneous wireless Networks**" in an International Journal of Science and Industrial Research (JSIR), vol 76, ISSN:0975-1084 (Online); 0022-4456 (Print), pp:690-693 in November 2017.
- Mr.S.Srinivas, Asst.Prof., ECE has published a paper titled "Improved Wire Length-Driven Placement Technique for Minimizing Wire Length, Area and Timing" in an International Journal of Low Power Electronics , Volume 13, Number 3, ISSN: 1546-1998 (Print): E-ISSN: 1546-2005 (Online), pp. 456-471 in September 2017.

#### **FACULTY PAPER PRESENTATIONS IN CONFERENCE**

- Dr.K.S.RangaRao, Prof., Dept.of ECE has publishes a paper titled "**Proposed SPSG Algorithm for Estimating Radar Cross Section of a Basic Model Sphere Generating Plasma Unseen By Enemy Radar in Active Stealth Technology**" in Andhra Pradesh Science Congress APSC-2017 Andhra Pradesh Akademi of Sciences Amaravati APSC-2017 Organizes Jointly with Andhra University, Visakhapatnam during 7<sup>th</sup> -9<sup>th</sup> November 2017.
- Dr.V.Rajayalakshmi, HOD,ECE has published a paper titled "**Miniaturized textile antenna using electromagnetic band gap (EBG) structure**" in springer, Lecture Notes in Electrical Engineering (LNEE) 434, proceedings of 2<sup>nd</sup> International Conference on Micro-electronics , Electromagnetic and Telecommunications(ICMEET), Pp 13-20 on 7<sup>th</sup> September 2017.
- Ms.B.Deepa, Asst.Prof., ECE has published a paper titled "**Multiband characteristics of the slot-loaded aperture fed antenna**" in springer, Lecture Notes in Electrical Engineering (LNEE) 434, proceedings of 2<sup>nd</sup> International Conference on Micro-electronics , Electromagnetic and Telecommunications(ICMEET), Pp 401-407 on 7<sup>th</sup> September 2017.

## FACULTY STUDENT JOINT PAPER PUBLICATIONS IN JOURNAL

- Dr.V.Rajyalakshmi, HOD,ECE and P.Devi , II/II M.Tech (CS) have publishes a paper titled **“Patch rotation –based frequency reconfigurable antenna for wireless applications”** in springer, Lecture Notes in Electrical Engineering (LNEE) 434, proceedings of 2nd International Conference on Micro-electronics , Electromagnetic and Telecommunications(ICMEET), Pp 123-134 on 7th September 2017.

## STUDENT SPECIAL ACHIEVEMENTS

- Mr.G.Sivaram ECE (2013-2017) awarded **Prathibha Award** by State Government of Andhra Pradesh in the month of **September 2017**.



Appreciation certificate and a cash price of Rs:2,000/- is handedover to his parents upon his absence during Annual Day.

- Mr.GASJatinSai Ram III/IV ECE-A (315126512001) got **student**



**appreciationcertificate**formaintaining 100% class attendance in 2016-17 academic year.

- Mr.U.Rajeshnaidu III/IV ECE-C Completed NPTEL online Certification course in **“Programming, data Structures and Algorithms Using Python”** with a consolidated score of **66%** from IIT Madras in the duration July-September 2017(8 weeks).
- Mr.P.Anirudh, Mr.R.Vinay, Mr.M.V.K.Kalyan, Mr.P.V.K.GowthamIII/IV ECE-B and Mr.T.V.Vijay Kumar III/IV ECE-Chadworking on a project titled **“Solid Testing and Monitoring System by Data Patterning Mechanism”** has been shortlisted for the quarterfinals in **“DST & Texas Instruments Inc. India Innovation Challenge Design Contest 2017”** anchored by the Indian Institute of Management (IIM), Bangalore in November 2017.
- **Mr.Ch.Preetham, III/IV ECE-A** Completed NPTEL online Certification course in **“Developing Soft Skills And Personality”** with a consolidated score of **70% (ELITE)** from IIT Kanpur in the duration July-September 2017(8 weeks).
- Ms. K. V.S.S.SaiSirisha, IV/IV ECE and Ms. V. SreePreethi II/IV ECE, won the **1<sup>st</sup> Prize** in Andhra University Inter-Collegiate Chess Championship (GIRLS) held at Samata Degree College, Visakhapatnam held on 26<sup>th</sup> to 27<sup>th</sup> September, 2017.

- Mr. M. Shiva II/IV ECE, Mr. M, NitishNarayana II/IV ECE and Mr. V. SaiMahidhar II/IV ECE won the **1<sup>st</sup> Prize** in Andhra University Inter-Collegiate Chess Championship (BOYS) held at Samata Degree College, Visakhapatnam.
- Ms. D. Soujanya, IV/IV ECE, and Ms. T. Abhigna, I/IV ECE Achieved **1<sup>st</sup> Place** in Andhra University Intercollegiate Table Tennis Championship held at Andhra University, Visakhapatnam during 12th to 13th September, 2017.
- Mr. T. Mohan Sai, III/IV ECE and Mr. D. Sai Kishore, III/IV ECE got the **2<sup>nd</sup> Place** in Andhra University Intercollegiate Lawn Tennis Championship held at Andhra University, Visakhapatnam held on 14th to 15th September, 2017.
- Mr. M. Hari, III/IV ECE, secured **4<sup>th</sup> Place** in Andhra University Intercollegiate Table Tennis Championship held at Andhra University, Visakhapatnam during 11th 12th September, 2017.

## WORKSHOP's/ SEMINAR's/EVENT's ATTENDED BY STUDENTS

- 5 final years and 77 third year students of ECE have participated in the one day workshop on **“LabVIEW and Applications”** organized by The Institute of Engineers(India) Visakhapatnam Local Centre in association with department of ECE , ANITS at ANITS on 7<sup>th</sup> October 2017.
- Mr.B.SrujanSrivasthav, Ms.D.Bhargavi, Mr.J.Sandeep, S.K.Priyanka, S.Naresh, Y.Pravven Kumar, S.Anil Kumar and Md.AbdhulKhadarJilani IV/IV ECE had attended a Seminar on **“Artificial Intelligence”** organized by Andhra University in association with EXA Intelligence a Japan based IOT Company & IT foundation of Andhra Pradesh (ITAP) at Platinum Jubilee Guest House, AU, Visakhapatnam on 8th September 2017
- Mr.R.HarshaAditya, Mr.D.Chakri, Ms.Ch.Divyasri, Ms.G.Madhurima and Ms.B.Vasantha III/IV ECE-A have attended a workshop on **“Motorbike Overhauling”** in the event AARUUSH'17 organized by PrigmaEdutech Solutions at SRM University, Kattankulathur during 16<sup>th</sup> and 17<sup>th</sup> September 2017.
- Mr.R.HarshaAditya, Ms.Ch.Divyasri, Ms.G.Madhurima and Ms.B.Vasantha III/IV ECE-A have participated in the event **“Artsy lens”** in the event AARUUSH'17 organized by PrigmaEdutech Solutions at SRM University, Kattankulathur during 16<sup>th</sup> and 17<sup>th</sup> September 2017.
- Mr.P.Nikhil Kumar II/IV ECE-A has participated in **Story Writing Competition** on the eve of Engineers Day Celebrations organized by La Literati the

language club of ANITS, at ANITS Engineering College, Sangivalasa on 17<sup>th</sup> September 2017.

### CLUB ACTIVITIES



### CREATIVE AND INNOVATION CLUB

On the eve of **Engineers Day** dated 15th September, Tinkerer's Lab (Creative and Innovation Club (Technical)) of ECE department conducted a unique circuit design competition (Where each team will be given same set of components and students should come up with their unique design) named **Circuit Design 'Pro'** for III year ECE & EEE, **Circuit Design 'Novice'** for II year ECE & EEE students of ANITS on 14th September 2017. **Poster Presentation** event was also conducted for all the students of department of ECE. 8 teams were selected as prize winners in **Circuit Design 'Pro'**. 2 teams were selected as prize winners in **Circuit Design 'Novice'**. 2 teams were selected as prize winners in **Poster Presentation**. Dr. K.S.RangaRao, Professor (retd Scientist-F, NSTL) of Department of ECE, ANITS distributed the prizes for prize winners.

### SPORTS AND YOGA CLUB



### YOGA EVENT

The Sports and Yoga Club of Dept. of ECE has conducted "**YOGA event**" on 20<sup>th</sup> September 2017 for I/IV B.Tech ECE Students at 2:30 PM in Admin Block (A-311). Total 20 students and 10 faculty members attended. The student of 3<sup>rd</sup> year ECE Ms.Sindhujaguided the students with different basic ASANAS.

On the eve of **Orientation Program** for First Year Students for the admitted batch 2017-18, the Sports and Yoga Club of Dept. of ECE has conducted sports in September 2017. The prizes were distributed in the day of Orientation Program.



### AU INTERCOLLEGIATE BEST PHYSIQUE CHAMPIONSHIP

- Mr P. K. R. Murali Krishna IV/IV ECE Student Secured **Gold Medal** in AU Intercollegiate Best Physique Championship held at Dr. L.B. College, Visakhapatnam on 9th October 2017 & also Best Physique Championship of College as a part of Annual Day Competitions and Mr. CH. Sai Kishore II/IV ECE Secured **Silver Medal**.