



ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES

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

Sangivalasa-531162, Bheemunipatnam Mandal, Visakhapatnam Dt.

Phone: 08933- 225084.226395

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

DEPARTMENT QUARTERLY NEWS LETTER

[SEPTEMBER 2016 - NOVEMBER 2016]



NATIONAL CONFERENCE NCRCECT-2016

Two day National conference on Recent Challenges in Electronics and Communication Technology (NCRCECT-2016) is organized by department of ECE on 01st and 2nd October 2016 at Anil Neerukonda Institute of Technology & Sciences (ANITS), Visakhapatnam. Dr.N.B.R.Prasad, Chairman, Anil Neerukonda Educational Society (ANES), Mr. N.Naveen, Treasurer, ANES, Prof.T.V.HanumantaRao, Principal, ANITS, Prof.K.Murali Krishna, Head of the ECE Department, Prof. P. Ramakrishna Rao, Prof.K.RajaRajeswari and Prof.K.S.RangaRao have graced the occasion. In this occasion, Commodore R.Santosh, Naval Dockyard, Visakhapatnam has given detailed explanation about Challenges of technology in Naval Platform. Prof.K.Ramji, Dept of Mech, Andhra University had given information about outcome based education and explained the importance of Industry Institute Interaction. Dr. K. Sudhakar Retd. Scientist-H & Outstanding Scientist DRDO Fellow at NSTL, Visakhapatnam has given detailed explanation about Challenges in Sonar Signal Processing. Mr.N. Sakthivel, Scientific Officer – F, Computational Analysis Division Bhabha Atomic Research Centre, Visakhapatnam had given information of high performance computing techniques. The Research Scholars, Faculty and Students of various

Institutions and Scientists from various organizations have participated in the event.



FACULTY AWARENESS PROGRAMME

Faculty Awareness Program on “Embedded system applications in defence” by Dr.Abraham Varughese, Associate Director, Scientist-G, Instrumentation Division, NSTL, Visakhapatnam is conducted on 24.09.2016 by the Dept of ECE, ANITS. In this programme Dr.Abraham Varughese discussed about SONAR, Embedded System on SONAR and various sensors. He also discussed about Naval Research Board (NRB) a flexible approach to basic research, funding and project execution. Grants-in-Aid Scheme to nurture research talent and to create research facilities in IITs, Universities, higher technological institutions, colleges and other research centers.

FRESHERS DAY CELEBRATIONS

FRESHERS DAY for admitted batch 2016-17 was organized by department of ECE on 24th September 2016. The program started with Motivational speech by HOD sir and faculty. Then the PO's and PEO's as well as the mission and vision were also discussed and the awareness regarding those was spread among the first year students. Then the some motivational words were

spoken by IV/IV, III/IV and II/IV ECE students to motivate the 1st year students and introduce the 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 for making enthusiastic and for enhancing their knowledge. Then a small JAM session was conducted for the 1st year students so that they can share their thoughts openly in front of the audience. The program was concluded with a vote of thanks

MEMORANDUM OF UNDERSTANDING (MOU)

- The Memorandum of Understanding (MOU) is executed between M/S Avantel Limited , incorporated under the laws of Indian Companies Act, 1956, having its registered office at plot no.47/P,APIIC Industrial Park, Gambheeram(V), Anandapuram (M), Visakhapatnam-531163, who is specialist in Defense Electronics, Satellite Communication technologies and Embedded Systems and Department of ECE, Anil Neerukonda Institute of Technology & Sciences, Affiliated to Andhra University and Accredited by NBA, Sangivalasa-531162, BheemunipatnamMandal, Visakhapatnam , effective from Nov 2016 for three years.



Ms.V.V.L.Manasa(312126512111) ECE (2012-2016) stood topper of the batch and has been awarded **Prathibha Award by State**

Government of Andhra Pradesh in the month of September 2016.

Faculty Special Achievements

- Mr.S.Balarama Murthy is reviewer for “International Journal of Advanced Metaheuristic Computing(IJAMC)”, published by IGI Global publications, USA indexed by Web of Science Emerging Sources Citation Index (ESCI)

FACULTY PAPER PUBLICATIONS IN CONFERENCE

- Dr. K.RangaRao, Prof., ECE has presented a paper on “**ISAR imaging of moving targets for cubic chirps using proposed method for varying angular speeds**” in a National Conference in Recent Challenges in Electronics & Communication Technology organized by Department of ECE, ANITS, Sangivalasa during 1st- 2nd October 2016.
- Dr. K.RajaRajeswari, Prof., ECE has presented a paper on “**BER Reduction Technique for Nonlinear OFDM Transmission**” in a National Conference in Recent Challenges in Electronics & Communication Technology organized by Department of ECE, ANITS, Sangivalasa during 1st- 2nd October 2016.
- Dr. K.RangaRao, Prof., ECE has presented a paper on “**Comparison of RD, RID and RIC techniques for different Targets**” in a National Conference in Recent Challenges in Electronics & Communication Technology organized by Department of ECE, ANITS, Sangivalasa during 1st- 2nd October 2016.
- Dr. K.RangaRao, Prof., ECE has presented a paper on “**Effect of Signal Length and SNR on imaging of Targets with complex motion using MDCFT**” in a National Conference in Recent Challenges in Electronics & Communication Technology organized by Department of ECE, ANITS, Sangivalasa during 1st- 2nd October 2016.

- Mr.R.Sundar, Asst.Prof., ECE has presented a paper on **“Maximum Likelihood Estimation of Parameters of Distributions”** in a National Conference in Recent Challenges in Electronics & Communication Technology organized by Department of ECE, ANITS, Sangivalasa during 1st- 2nd October 2016.
- Mr.J.Bhaskara Rao Asst.Prof., ECE has presented a paper on **“Comparative Analysis of Fixed Point and Floating Point PID Controllers in FPGA”** in a National Conference in Recent Challenges in Electronics & Communication Technology organized by Department of ECE, ANITS, Sangivalasa during 1st- 2nd October 2016.
- Mr.D. Eswara Chaitanya Asst.Prof., ECE has presented a paper on **“Analysis of the Effect of Unknown Source Range on TDOA Localization”** in a National Conference in Recent Challenges in Electronics & Communication Technology organized by Department of ECE, ANITS, Sangivalasa during 1st- 2nd October 2016.

FACULTY AND STUDENT JOINT PUBLICATIONS

- Dr.V.Rajyalakshmi Assoc. Prof., and Ms.P.Devi, 2/2 M.Tech, of ECE has presented a paper on **"Frequency Reconfigurable Antenna for wireless application"** in International Symposium on Antennas and Propagation ISAP-2016, during 24th - 28th Oct 2016, at Okinawa, Japan.
- Dr. K.Murali Krishna, Prof. & HOD, ECE and Mr.T.Ajay 2/2 M.Tech, ECE has presented a paper on **“Improvement Measures of DHT Precoded OFDM over WiMAX Channels with Piecewise Linear Companding”** in a National Conference in Recent Challenges in Electronics & Communication Technology organized by Department of ECE, ANITS, Sangivalasa during 1st- 2nd October 2016.
- Dr. K.Murali Krishna, Prof. & HOD, ECE and Ms.Ch.Sudeepthi 2/2 M.Tech, ECE has presented a paper on **“Simulation and Tension Control of Deployment of Fiber**

Optic Cable for Under Water Vehicles” in a National Conference in Recent Challenges in Electronics & Communication Technology organized by Department of ECE, ANITS, Sangivalasa during 1st- 2nd October 2016.

- Mr.S. BalaramaMurtyAssoc.Prof., ECE and Ms.D.Saravani2/2 M.Tech, ECE has presented a paper on **“Atrial fibrillation Detection using Frequency,time-frequency and Feature vector ECG signal analysis (FVESA)”** in a National Conference in Recent Challenges in Electronics & Communication Technology organized by Department of ECE, ANITS, Sangivalasa during 1st- 2nd October 2016.
- Mr.D.Anil Prasad Asst.Prof., ECE and Ms.K.Jayanthi 2/2 M.Tech ECE has presented a paper on **“Sonar Target Detection For A Chirp Signal In FRFT Domain”** in a National Conference in Recent Challenges in Electronics & Communication Technology organized by Department of ECE, ANITS, Sangivalasa during 1st- 2nd October 2016.
- Dr. K.Murali Krishna, Prof. & HOD, ECE, Mr.Vijay Kumar SahuAsst.Prof., ECE and Mr.Y.Venkatesh2/2 M.Tech, ECE has presented a paper on **“Polarization Reconfigurable Patch Antenna for ISM Band Applications”** in a National Conference in Recent Challenges in Electronics & Communication Technology organized by Department of ECE, ANITS, Sangivalasa during 1st- 2nd October 2016.
- Ms.Ch. AnooashaAsst.Prof., ECE, Ms.D.NagmaniAsst.Prof., ECE andMs.P.Tirumala2/2 M.Tech, ECE has presented a paper on **“Dual Microphone Wind Noise Reduction by Exploiting the Complex Coherence”** in a National Conference in Recent Challenges in Electronics & Communication Technology organized by Department of ECE, ANITS, Sangivalasa during 1st- 2nd October 2016.
- Mr.J.Bhaskara Rao Asst.Prof., ECE and Ms.A.Abhishiktha 2/2 M.Tech, ECE has presented a paper on **“Contrast Stretching**

Method To Determine The Surface Roughness Parameters” in a National Conference in Recent Challenges in Electronics & Communication Technology organized by Department of ECE, ANITS, Sangivalasa during 1st- 2nd October 2016.

- Mr.A. Lakshmi Narayana Asst.Prof., ECE and Mr.D.Diwakar 2/2 M.Tech, ECE has presented a paper on **“Next Generation Heterogeneous Wireless Networks Handover Probability Analysis Based on Equal Bandwidth Allocation”** in a National Conference in Recent Challenges in Electronics & Communication Technology organized by Department of ECE, ANITS, Sangivalasa during 1st- 2nd October 2016.
- Mr.A.Siva Kumar Asst.Prof., ECE, Mr.Bibekananda Jena Asst.Prof., ECE and Mr.G.Vishnuvardhan Reddy 2/2 M.Tech, ECE has presented a paper on **“An Efficient Random Valued Impulse Noise Suppression Technique using Artificial Neural Network and Non-Local Mean Filter”** in a National Conference in Recent Challenges in Electronics & Communication Technology organized by Department of ECE, ANITS, Sangivalasa during 1st- 2nd October 2016.

WORKSHOP’s/ SEMINAR’s/ FDP’s ATTENDED BY FACULTY

- Dr.K.Murali Krishna, HOD and Mr.D.Anil Prasad, Asst.Prof., ECE have attended IEEE Education Society’s Three day Workshop on **“Quality Initiative in Outcome Based Technical Education System(Towards achieving NBA Accreditation)”** organized by IEEE Education Society and IEEE Hyderabad Section in association with Dept.of ECE Matrusri Engineering College, Hyderabad during 1st – 3rd September 2016.
- Mrs.M.Nirmala, Asst.Prof. and Mr.Vijay Kumar Sahu, Asst.Prof. ECE have attended One Week Faculty Development Programme (FDP) on **“Advances in Practical RF Antenna Design”** Jointly Organized by Electronics & ICT Academy, NIT Warangal &

Dept. of ECE LENDI Institute of Engineering & Technology, Vizianagaram during 13th - 18th September 2016.

- Mrs.Ch.Anoosha, Asst.Prof. ECE attended One Week Faculty Development Programme (FDP) on **“Advanced Digital Signal Processing and Applications”** jointly organized by Electronics & ICT Academy, NIT Warangal and Dept. of ECE Vardhaman College of Engineering, Hyderabad during 19th -24th September 2016.
- Mr.B.Chandra Mouli, Asst., Prof., Mr.L.Ganesh, Asst., Prof. and Ms.P.Chaya Devi, Asst., Prof ECE attended a one week faculty development program on **“Advances in Communication Technology”** organized by Department of ECE, AITAM, Tekkali during 26th September to 1st October 2016.
- Ms.V.V.L.Manasa(312126512111) ECE (2012-2016) awarded **Prathibha Award by State Government of Andhra Pradesh** in the month of September 2016.

PAPERS PRESENTED BY STUDENTS

1. Ms.P.Devi, 2/2 M.Tech, of ECE has presented a paper on "Frequency Reconfigurable Antenna for wireless application" in International Symposium on Antennas and Propagation ISAP-2016, during 24th - 28th Oct 2016, at Okinawa, Japan.
2. Mr.T.Ajay 2/2 M.Tech, ECE has presented a paper on **“Improvement Measures of DHT Precoded OFDM over WiMAX Channels with Piecewise Linear Companding”** in a National Conference in Recent Challenges in Electronics & Communication Technology organized by Department of ECE, ANITS, Sangivalasa during 1st- 2nd October 2016.
3. Ms.Ch.Sudeepthi 2/2 M.Tech, ECE has presented a paper on **“Simulation and Tension Control of Deployment of Fiber Optic Cable for Under Water Vehicles”** in a National Conference in Recent Challenges in Electronics & Communication Technology

organized by Department of ECE, ANITS, Sangivalasa during 1st- 2nd October 2016.

4. Mr.Y.Venkatesh2/2 M.Tech, ECE has presented a paper on **“Polarization Reconfigurable Patch Antenna for ISM Band Applications”** in a National Conference in Recent Challenges in Electronics & Communication Technology organized by Department of ECE, ANITS, Sangivalasa during 1st- 2nd October 2016.
5. Mr.D.Diwakar2/2 M.Tech, ECE has presented a paper on **“Next Generation Heterogeneous Wireless Networks Handover Probability Analysis Based on Equal Bandwidth Allocation”** in a National Conference in Recent Challenges in Electronics & Communication Technology organized by Department of ECE, ANITS, Sangivalasa during 1st- 2nd October 2016.
6. Ms.P.Tirumala2/2 M.Tech, ECE has presented a paper on **“Dual Microphone Wind Noise Reduction by Exploiting the Complex Coherence”** in a National Conference in Recent Challenges in Electronics & Communication Technology organized by Department of ECE, ANITS, Sangivalasa during 1st- 2nd October 2016.
7. Ms.D.Saravani2/2 M.Tech, ECE has presented a paper on **“Atrial fibrillation Detection using Frequency,time-frequency and Feature vector ECG signal analysis (FVESA)”** in a National Conference in Recent Challenges in Electronics & Communication Technology organized by Department of ECE, ANITS, Sangivalasa during 1st- 2nd October 2016.
8. Ms.K.Jayanthi 2/2 M.Tech ECE has presented a paper on **“Sonar Target Detection For A Chirp Signal In FRFT Domain”** in a National Conference in Recent Challenges in Electronics & Communication Technology organized by Department of ECE, ANITS, Sangivalasa during 1st- 2nd October 2016.
9. Ms.A.Abhishiktha 2/2 M.Tech, ECE has presented a paper on **“Contrast Stretching Method To Determine The Surface Roughness Parameters”** in a National Conference in Recent Challenges in Electronics & Communication Technology organized by Department of ECE, ANITS, Sangivalasa during 1st- 2nd October 2016.
10. Mr.G.Vishnuvardhan Reddy2/2 M.Tech, ECE has presented a paper on **“An Efficient Random Valued Impulse Noise Suppression Technique using Artificial Neural Network and Non-Local Mean Filter”** in a National Conference in Recent Challenges in Electronics & Communication Technology organized by Department of ECE, ANITS, Sangivalasa during 1st- 2nd October 2016.
11. Ms.K.Lavanya , Ms.SunandaBehera and Ms.K.Sadhanaof III/IV ECE have presented a paper titled **“Automation System and Applications”** in a National Conference in Recent Challenges in Electronics & Communication Technology NCRCECT 2016 organized by Department of ECE, ANITS, Sangivalasa during 1st- 2nd October 2016.
12. Mr. K. Krishna Nikhil, Ms. K. Lavanya, Mr.K.VamsiKrishnaand Ms. SheebaTanveerof III/IV ECE have presented a paper titled **“Integrated Optics and Optoelectronics”** in a National Conference in Recent Challenges in Electronics & Communication Technology NCRCECT 2016 organized by Department of ECE, ANITS, Sangivalasa during 1st- 2nd October 2016.
13. Ms.J.Harini, Ms. B.Bhavana, Ms.CH.Chaitanya, Ms.D.G.N.Deepikaand Ms. K.Sneha of III/IV ECE have presented a paper titled **“Smart and Bioelectronics”** in a National Conference in Recent Challenges in Electronics & Communication Technology NCRCECT 2016 organized by Department of ECE, ANITS, Sangivalasa during 1st-2ndOctober 2016.
14. Mr.K.S.V.PavanSantosh Kumar, Mr.P.Kaushikand Mr.Mohammad Muktar Aliof III/IV ECE have presented a paper titled **“Automation Systems and Applications”** in a National Conference in Recent Challenges in Electronics & Communication Technology

- NCRCECT 2016 organized by Department of ECE, ANITS, Sangivalasa during 1st-2nd October 2016.
15. Mr. R. *Gopala Krishna* and Mr. *P. Laxma Reddy* of III/IV ECE have presented a paper titled **“Radar and Underwater Communication”** in a National Conference in Recent Challenges in Electronics & Communication Technology NCRCECT 2016 organized by Department of ECE, ANITS, Sangivalasa during 1st- 2nd October 2016.
 16. Ms. Ch. Sri Lakshmi Janaki, Ms. D. Bhargavi, Ms. G. Madhuri and Ms. Jeenathamam of III/IV ECE have presented a paper titled **“Embedded system”** in a National Conference in Recent Challenges in Electronics & Communication Technology NCRCECT 2016 organized by Department of ECE, ANITS, Sangivalasa during 1st- 2nd October 2016.
 17. Mr. S. Murali Manohar IV/IV ECE have presented a paper titled **“Generation of Electricity Using Sound”** in a National Conference in Recent Challenges in Electronics & Communication Technology NCRCECT 2016 organized by Department of ECE, ANITS, Sangivalasa during 1st- 2nd October 2016.
 18. Mr. Shaik Akbar and Mr. Venkatesh Patnala III/IV ECE have presented a paper titled **“I Security Night Vision System For Nocturnal Driving - An Embedded System Based Approach”** in a National Conference in Recent Challenges in Electronics & Communication Technology NCRCECT 2016 organized by Department of ECE, ANITS, Sangivalasa during 1st- 2nd October 2016.
 19. Mr. S. Naresh III/IV ECE have presented a paper titled **“Internet of Things (IoT): A vision, Architectural element and Future direction”** in a National Conference in Recent Challenges in Electronics & Communication Technology NCRCECT 2016 organized by Department of ECE, ANITS, Sangivalasa during 1st- 2nd October 2016.
 20. Mr. P. Rama Krishna Reddy III/IV ECE have presented a paper titled **“Travelling of magnetic lines of forces in a copper ring creates Bullet trains”** in a National Conference in Recent Challenges in Electronics & Communication Technology NCRCECT 2016 organized by Department of ECE, ANITS, Sangivalasa during 1st- 2nd October 2016.
 21. Mr. N. Rajanish, Mr. T. Durga Prasad and Ms. R. V. Pranathi of III/IV ECE have presented a paper titled **“Nano Based Camouflage and Stealth Applications”** in a National Conference in Recent Challenges in Electronics & Communication Technology NCRCECT 2016 organized by Department of ECE, ANITS, Sangivalasa during 1st- 2nd October 2016.
 22. Ms. P. Gayathri, Ms. N. Praveena and Ms. L. Taneesha of III/IV ECE have presented a paper titled **“BIONIC EYE”** in a National Conference in Recent Challenges in Electronics & Communication Technology NCRCECT 2016 organized by Department of ECE, ANITS, Sangivalasa during 1st- 2nd October 2016.
 23. Mr. M. Vikramaditya Raja, Mr. M. Kirankumar, Mr. N. V. Sai Varun and Mr. N. Vamsi Krishna of III/IV ECE have presented a paper titled **“Transform Technology”** in a National Conference in Recent Challenges in Electronics & Communication Technology NCRCECT 2016 organized by Department of ECE, ANITS, Sangivalasa during 1st- 2nd October 2016.
 24. Ms. K. Apoorva, Ms. G. V. Durga and Mr. Venkata Siva Ram, of IV/IV ECE have presented a paper titled **“Performance Analysis of Precoding Techniques of OFDM”** in a National Conference in Recent Challenges in Electronics & Communication Technology NCRCECT 2016 organized by Department of ECE, ANITS, Sangivalasa during 1st- 2nd October 2016.
 25. Ms. U. Sai Sree, Ms. V. Soudamini and Ms. K. Sravya of III/IV ECE have presented a

paper in a National Conference in Recent Challenges in Electronics & Communication Technology NCRCECT 2016 organized by Department of ECE, ANITS, Sangivalasa during 1st- 2nd October 2016.

HARDWARE MODULES PRESENTED BY STUDENTS

1. Mr.D.Abhiram and Mr.P.Rama Krishna Reddy III/IV ECE have participated in Hardware expo organized by the department of EEE, Andhra University college of Engineering for Women, Andhra University, Visakhapatnam on 1st October 2016.
2. Mr.P.Narendra Kumar II/IV ECE working on a project titled “Prosthetic for Transhumeral Amputees” has been shortlisted for the quarterfinals in “DST & Texas Instruments Inc. India Innovation Challenge Design Contest 2016” anchored by the Indian Institute of Management (IIM), Bangalore October 2016.

EXTRACURRICULAR ACTIVITIES BY STUDENTS

1. Ms.D.SaiSowmya and Ms.Y.N.Sowjanya of III/IV ECE are the **winners** in the poster presentation in the event of “International Day of Elimination of Violence Against Women”

organized by NRI Hospital, Sangivalasa conducted on 25th November 2016.

2. Ms.D.Sowjanya III/IV ECE participated in National Ranking Table Tennis Championships-2016(South Zone) conducted by Andhra Pradesh Table Tennis Association under the direction of Table Tennis Federation of India at Visakhapatnam Port Stadium during 20th to 25th October 2016.
3. Ms.D.Sowjanya III/IV ECE participated in 3rd A.P. State Ranking Table Tennis Tournament 2016 organized by Ananthapur Table Tennis Association during 8th to 10th September 2016.
4. Ms.D.Sowjanya III/IV ECE participated in 2nd A.P. State Ranking Table Tennis Tournament 2016 organized by Rajamahendravaram during 1st to 3rd September 2016.

CLUB ACTIVITIES

GREEN CLUB

Mrs. LeenaBasanthi, Managing Partner, Founder of ApnaBhoomi E-Waste Management Systems, appreciated Dept. of ECE, ANITS for gathering 260 Kg of E-Waste, as a part of Green Club Activity.

A Cricket Kit of 15000/- is given as a Token of Encouragement for Students of ECE as they won Hatrick in Annual Day Cricket