

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**  
**ANNUAL NEWS LETTER (2019-20)**



**A GUEST LECTURE ON “COMMUNICATION SYSTEMS WITH EMPHASIS ON CONTEMPORARY TECHNOLOGY AND REALIZATION THROUGH MATLAB”**

A guest lecture by Industry expert, **Dr. Rajkumar Goswami, Commodore, Indian Navy, Headquarters, Eastern Naval Command, Visakhapatnam** is jointly organized by department of ECE in association with IETE Student Forum and ACES for the benefit of UG students on “**Communication Systems with emphasis on Contemporary Technology and Realization through MATLAB**”, on 14.09.2019 at ANITS. In his lecture, he discussed in detail about the basics of analog & digital communication systems and various errors & codes used in contemporary systems with simulations run through MATLAB and SIMULINK. The faculty of ECE department, ANITS and the students of ECE department has attended the guest lecture. Dr. Rajkumar Goswami was felicitated by Head of the Department Prof. V.Rajya Lakshmi and Prof. G. Manmadha Rao. 145 Students Participated.



**A GUEST LECTURE ON “ELECTRONICS IN INDUSTRY”**

A guest lecture by Industry expert, **Mr. U. Srinivasa Rao, Project Manager-New Product Development, EATON Power Quality Pvt. Ltd., Pondicherry** is jointly organized by department of ECE in association with IETE Student Forum and ACES for the benefit of UG students on “**Electronics in industry**”, on 11.10.2019 (Friday) at 11:00 AM at ANITS. In his lecture, **Mr. U. Srinivasa Rao** has discussed in detail about the industrial applications of Electronics, Product development life cycle, Manufacturing process flow, PCB assembly and mainly focused on ‘Make in INDIA’. The faculty of ECE department, ANITS and the students of ECE department has attended the guest lecture. Guest was felicitated by Head of the Department Prof. V.Rajya Lakshmi. 114 Students Participated.



**A GUEST LECTURE ON “APPLICATIONS OF IMAGE PROCESSING AND COMPUTER VISION IN INDUSTRIAL AUTOMATION & TURBID MEDIA ANALYTICS”**

A guest lecture by Industry expert, **Dr. Karthik Seemakurthy, Research Scientist, Tata Consultancy Services, Bangalore** is arranged for the benefit of ECE students on “**Applications of Image Processing and Computer Vision in Industrial Automation & Turbid media analytics**” organized by the department of ECE on 10.02.2020 (Monday) at 01:00 Pm. In his lecture, Dr. Karthik Seemakurthy has discussed in detail about the basics of Image Processing and Computer Vision. He has also discussed about their applications in Industrial Automation. The faculty of ECE department, ANITS and the students of ECE department has attended the guest lecture. Dr. Karthik Seemakurthy was felicitated by Head of the Department Prof. V.Rajya Lakshmi and Prof. G. Manmadha Rao. 176 Students Participated.

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**A GUEST LECTURE ON “NEW VISION TECHNOLOGIES AND THEIR APPLICATION TO REAL-LIFE PROBLEMS”**

A guest lecture by Industry expert, Mr. Srinivasa Rao Pusalara, Founder and CEO of Cyber Range Labs, Bangalore (who is an Alumni of ECE Department, ANITS with no 313126512091) is arranged for the benefit of ECE students on “New Vision Technologies And Their Application To Real-Life Problems” organized by the department of ECE in association with IETE Student Forum and ACES on 06.02.2020 (Thursday) at 10:00 AM. In his lecture, Mr. Srinivasa Rao Pusalara has discussed in detail about the upcoming new Technologies. He has also discussed about their applications to Real-life Problems. The faculty of ECE department, ANITS and 185 Students Participated.



**WORKSHOP ON “ANTENNA MODELLING USING HIGH FREQUENCY STRUCTURE SIMULATOR (HFSS)”**

The Department of Electronics & Communication Engineering of Anil Neerukonda Institute of Technology and Sciences, in association with the IETE Student Forum organized a Three-day workshop on “Antenna Modelling Using High Frequency Structure Simulator (HFSS)” in industrial collaboration with ANSYS, on 26th-28th December

2019. Hands-on sessions to the participants were conducted all the three days led by Mr. R. Sashi Kumar, Application Engineer, from Entuple Technologies Pvt. Ltd, Bangalore. Around Ninety members which include Faculty, Research Scholar and Students from various Engineering College participated and learned different design aspects of antenna modeling and filter designing using HFSS software. The Workshop was convened by Prof. V. Rajaya Lakshmi, HoD, Dept. of ECE and was coordinated by Mr. Vijay Kumar Sahu and Mr. G. V. Ravi Teja, Asst. Professors, Dept of ECE. 95 Students Participated.



**TRAINING ON “PROBLEM SOLVING SKILLS USING PYTHON”**

One week hands on training on “Problem solving skills using Python” was organized by the department of Electronics and Communication Engineering (ECE) for the Third Year ECE students of ANITS (Anil Neerukonda Institute of Technology and Sciences). Trainers from AP State Skill Development Corporation (APSSDC), Vijayawada, conducted the hands on training from 20.01.2020 to 25.01.2020. About 197 students from third Year ECE were participated and gained hands-on experience of Python Basic & Advanced. The program was conducted in the Project lab (ECE), Sales force lab (IT) and APSSDC lab(MECH).. The students were very much happy by writing program on Python on their own and thanked the HOD, Faculty and student coordinators for their valuable support and guidelines and expressed their heartfelt thanks to the trainers of APSSDC Vijayawada for their caring approach, during programming practices. Mr. N. Ramkumar, Workshop Coordinator & Assistant professor of ECE department thanked the trainers for tirelessly supporting & encouraging the students during this one week. This program is a joint venture of IETE Students Forum (ISF) of ANITS and ANITS Communication Engineers Society (ACES).



### WORKSHOP ON “AUTOMATION ANYWHERE”

Two days workshop on “Automation anywhere” was organized by the department of Electronics and Communication Engineering (ECE) for the Third Year ECE students of ANITS (Anil Neerukonda Institute of Technology and Sciences). Trainers from FACE Academy, Visakapatnam, conducted the workshop from 29.11.2019 to 30.11.2019. About 150 students from third Year ECE were participated. The workshop is dedicated for beginners who have no previous experience with any RPA software tool. During the course, students were able to watch lecture videos on Automation Anywhere software. The program was conducted in the Project lab (ECE) & Sales force lab (IT). Dr.V.Rajyalakshmi, HOD, ECE and Mr. N. Ramkumar, Workshop Coordinator & Assistant professor of ECE department thanked the trainers for tirelessly supporting & encouraging the students during this Two Days.



### TWO DAYS ONLINE WORKSHOP ON “EMBEDDED SYSTEM DESIGN ON 8-BIT MICROCONTROLLER USING KEIL (IDE)”

Two days online Workshop on “EMBEDDED SYSTEM DESIGN on 8-bit MICROCONTROLLER USING KEIL (IDE)” was organized by the department of Electronics and Communication Engineering (ECE) for the Students and faculties from various colleges across the country. Mr.N.Ramkumar, Assistant Professor/ECE, ANITS acted as a resource person for both the days(29.05.2020 & 30.05.2020) .About 291

members registered out of which 128 members were participated and gained hands-on experience on Microcontroller and Embedded C Programming using KEIL(IDE) . The program was conducted through GoTo meeting online platform.

### NATIONAL LEVEL 5-DAY TECHNICAL E-

**ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES**  
(UGC AUTONOMOUS)  
(Approved by AICTE, Affiliated to A.P. JNTU Accredited by NBA & NAAC 'A')  
Sangivolu-531162, Bheemunipatnam Mandal, Visakhapatnam Dt.

Department of Electronics and Communication Engineering  
Presents  
**A National level 5 Day Technical E-Quiz Series**

**Timings: 2:00PM to 4:00PM**

Dates	Topics
Day - 1 10-06-2020	Signal & Image Processing using MATLAB
Day - 2 11-06-2020	VLSI Design and Verification using CAD Tools
Day - 3 12-06-2020	Embedded Systems and IoT using Tinkercad
Day - 4 13-06-2020	Wireless Communication Systems
Day - 5 14-06-2020	Outcome Based Education & NBA Accreditation

- Participation Certificates will be provided who scores more than 60% scores. Merit Certificates will be provided to those who score more than 80% score.
- Excellence certificate will be provided at the end of all quizzes who receives merit certificates on every day quiz.

For everyday Quiz link join in Telegram Group  
[https://t.me/quizbot\\_apt\\_ece\\_electronics](https://t.me/quizbot_apt_ece_electronics)

Convener  
Dr.V.Rajya Lakshmi  
Professor & Head, ECE

Coordinators  
Ms.Ch.Anjousha, Asst.Prof.  
Dr.K.V.G.Srinivas, Asst.Prof

### QUIZ SERIES

A Five Day E-Quiz series from 10th to 14th June, 2020 organized by Department of Electronics & Communication Engineering, ANITS for the faculty and research scholars from various colleges across the country. The main objective of this program is to create an awareness on various technical simulation tools by giving few simulation based questions in each subject. The scope of this online E-Quiz series is to enhance the knowledge on technical tools which are using highly involved in providing outcome based education. Among five days, first four days we have concentrated on technical subjects and on fifth day we have conducted quiz on Outcome Based Education & NBA Accreditation. Attempted: 2160 & Qualified: 459.



### TRAINING PROGRAM ON DATA STRUCTURES USING PYTHON AND DBMS

One week hands on training on “Data Structures using Python and DBMS” was organized by the department of Electronics and Communication Engineering (ECE) for the Third Year ECE students of ANITS (Anil

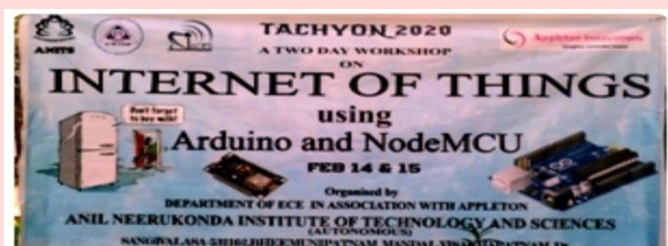
Neerukonda Institute of Technology and Sciences). Trainers' from Talentio Solutions, Hyderabad conducted the hands on training from 10.02.2020 to 15.02.2020. About 161 students from third Year ECE participated and gained hands-on experience of Python and DBMS Concepts. The program was conducted in the DSP Lab (ECE) and Sales force lab (IT).

### INDUSTRY INSTITUTE INTERACTION



#### MOU WITH APPLETON

This Memorandum of Understanding (MOU) between ANITS and ALPHAPPLETON INNOVATION (OPC) Private Limited, Visakhapatnam is intended to promote cooperation in the field of Research, Training, and placement and provide the basis for a industry academia relationship between the two parties on 1<sup>st</sup> March 2019, in accord with the following provisions. •Facilitate industry oriented hands-on training in the field of Internet of Things (IoT), Embedded Systems using appropriate equipment and simulation tools for the students and faculties. •Establish Centre of Excellence (COE) in the field of Internet of Things (IoT).



#### TWO DAY WORKSHOP ON “INTERNET OF THINGS (IOT) USING ARDUINO AND NODE MCU”

The department of ECE, ANITS has organized a Two day workshop on “Internet of Things (IOT) using Arduino and Node MCU” in association with Appleton Innovations on 14<sup>th</sup> & 15<sup>th</sup> FEB 2020 as a prefest event in TACHYON 2020 of ECE. A total of 163 students participated in two venues; one is at seminar hall, Dept.

of ECE and APSSDC lab in Mechanical Engineering department. In this regard, students are grouped and each batch consists of 4 members. Resource person has discussed about basic programming and installation of Arduino board and its libraries. As a part of this, a hands-on session was done for the basic LED blinking program. Next Voice control home automation using google assistance using IFTTT. How to create applets in IFTTT and controlling LEDs (ON and OFF) by voice, and also red, blue and green colors of RGB LED can blink by using voice.



#### STUDENT INDUSTRY VISIT

III/IV ECE students undergone for industry visit of ALL INDIA RADIO on 11<sup>th</sup> & 13<sup>th</sup> September 2019. 210 Students Participated.

#### INDUSTRIAL TRAINING

211 Students of ECE had undergone training during May 2020 in the following Companies. TEKBLIZZ [16], IIRS-ISRO [122], COURSERA [70], SKILLUP ON AI [2] & ELEMENTS OF AI [1]



#### A FIVE DAY NATIONAL LEVEL ONLINE FACULTY DEVELOPMENT PROGRAM ON “SKILL DEVELOPMENT FOR EFFECTIVE RESEARCH AND TEACHING - LEARNING PROCESS”

A Five Day National Level Online Faculty Development Program is arranged for the benefit of faculty on “Skill Development for Effective Research and Teaching - Learning Process” is organized by the department of ECE from 8<sup>th</sup> to 12<sup>th</sup> June, 2020 for the faculties from various colleges across the country. The main objective

of this program is to provide an exposure of Research and advanced Teaching – Learning platforms. The scope of this online Faculty development program covers Latex, Thesis writing, Research Proposal & IPR, Innovative Teaching-Learning and Evaluation process. 2552 Participants registered out of which 756 Participants Attended.



**A THREE DAY NATIONAL LEVEL ONLINE FACULTY DEVELOPMENT PROGRAM ON "IMAGE PROCESSING AND COMPUTER VISION (PCV)"**

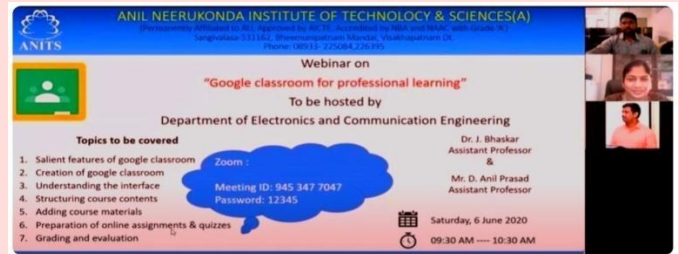
A Three Day National Level Online Faculty Development Program is arranged for the benefit of faculty on "Image Processing and Computer Vision (PCV)" is organized by the department of ECE from 29th to 31st May 2020 for the faculties from various colleges across the country. The main objective of this program is to provide an exposure of image processing in real time problems. 646 Participants registered out of which 228 Participants Attended.



**A FIVE DAY NATIONAL LEVEL ONLINE FACULTY DEVELOPMENT PROGRAM ON "OPPORTUNITIES AND CHALLENGES IN NEXT-GENERATION SEMICONDUCTOR DEVICES"**

A Five Day National Level Online Faculty Development Program on "Opportunities and Challenges in Next-

Generation Semiconductor Devices" from 16th to 20th June 2020 organized by Department of ECE, ANITS for the M.Tech/PhD students and faculties from various colleges across the country. The main objective of this program is to provide an exposure of advanced semiconductor devices for next generation electronics. It covers the whole value chain of silicon devices, technology, hetero structure devices, and power devices as well as their production. 1210 Participants registered out of which 522 Participants Attended.



**A WEBINAR ON GOOGLE CLASSROOM FOR PROFESSIONAL LEARNING**

A webinar on "Google Classroom for professional Learning" is organized by the department of ECE on 6<sup>th</sup> June 2020. The webinar aims to assist the faculty in managing online classes for the students. Prof. V.RajyaLakshmi, HOD, department of ECE has taken initiative in organizing webinar on "Google Classroom for professional Learning" as online classes have become the norm during COVID-19 and to some extent replicate our physical classrooms and provide an enriching teaching and learning experience. This programme is designed to provide the participants with the necessary skills in managing online classes using google classroom. 33 Faculty Participated.



**NBA EXPERT VISIT**

ECE department Faculty had attended the interactive session on “Process for NBA Accreditation” by Prof.O.G.Kakde, Director, IIIT Nagpur on 21<sup>st</sup> December 2019 organized by ANITS, Sangivalasa. In view of this Prof.O.G.Kakde visited the department and given the valuable suggestion to faculty for upcoming NBA visit.



changes in environment on society” by Mr.J.V.Ratnam ,the founder of “Green Climate Organization”. In this talk he has explained how the Air pollution, Green House Gases (GHGs) and climate change (which includes global warming) influenced their impacts on human health and ecosystems.

- As part of Induction Programme, Green club of department of ECE had organized an event on the eve of Ganesh chaturdi in association with “Green



IV/IV ECE Girls students attended the awareness program on “Women safety in Cyber Space” & Launch of “Mahila Mitra” a state wide programm at Police auditorium, Visakhapatnam on 8th August 2019.



Climate Organization” on 27<sup>th</sup> August 2019. The members trained the students to make eco-friendly ganesha idols with the clay.



**NBA VISIT BY K.C.B. RAO**

Department Faculty had an interaction with Dr. K.C.B Rao, JNTU Vizianagaram IIIT Nagpur on 3<sup>rd</sup> February 2020 organized by ANITS, Sangivalasa. In view of this Dr. K.C.B Rao visited the department and given the valuable suggestion to faculty for upcoming NBA visit.

### INDUCTION PROGRAMME FOR FIRST YEAR STUDENTS

Induction Program for First Year Students for the admitted batch 2019-20 was organized by department of ECE during 19<sup>th</sup> August to 30<sup>th</sup> August 2019. HOD introduced the faculty and various facilities provided by the college to student in their four years of engineering life.

- As part of it, **Technical quiz** was conducted by the Department of ECE. 106students participated in this event.



- As part of this programme the Green club of dept. of ECE had organized a talk on “**The impact of climatic**



- Yoga** event is conducted by **Ms.Mohini** on 27<sup>th</sup> August 2019 10.30 AM TO 12.00 Noon
- Art of living lecture** is delivered by **Mrs Rani** on 30<sup>th</sup> August 2019 10.30 AM TO 12.00 Noon
- Swatch Anits** is conducted on 30<sup>th</sup> August 2019 09.00 AM TO 10.30 AM.
- Fun with Electronics:** The entire fresher’s of I/IV ECE have been addressed by B.Chandra Mouli, Asst. Professor, and Department of ECE. He elaborated on advantages and pleasure of becoming an electronics engineer. Following the speech, hands on experience session was organized by the department to experience the fun in learning electronics.



### PARENTS MEETING

The Department of ECE, ANITS conducted the **Parents Meeting** for III/IV ECE and II/IV ECE parents on 28<sup>th</sup> December 2019 from 9:00AM to 1:00PM. 24 parents of second year student's and 10 parents of third year students were participated in the meeting. The meeting was addressed by Prof.T.Hanumantha Rao, Principal ANITS and the Head of the Department Dr.V.Rajya Lakshmi. The department Head welcomed all the parents to the meeting and delivered an informative presentation. The program was ended with a Lunch.



### TACHYON 2020

TACHYON-2020 which is organized by the Department of Electronics & Communication Engineering in association with ANITS Communication Engineers Society (ACES) of Anil Neerukonda Institute of technology and sciences (ANITS) is conducted for two days 25<sup>th</sup> and 26<sup>th</sup> of February, 2020. The inauguration function was graced by Dr. Rajkumar Goswamy, Addl Command Electrical Officer, INDIAN NAVY is the chief guest. Mr.Naveen Nirukonda, Treasurer, ANITS, Dr. T.V.Hanumantha Rao, Principal, Dr. V.Rajya Lakshmi, HOD, ECE, shared the dais. 630 Students Participated.

### PREFEST EVENTS:



### BUSINESS COMBAT:

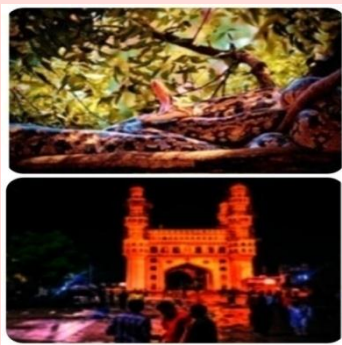
A total of 62 teams have registered for the event. The first round is an online round where all the participating teams are given two cases to which they have to give their best possible solution was conducted on 14<sup>th</sup> February 2020. A total of 188 students in 30 teams were shortlisted for the second phase of Business Combat. The Final Event consists of **Business Planning, Financial Planning and Marketing Strategy**. Presentations will be made by the contestants before the Judges Mr. Madhav Reddy [“Bharat Shiromani Awardee 2018” (For excellence in Entrepreneurship) Leadership Coach, Motivational Speaker & Corporate Trainer Startup Mentor & Curator Certified Lean Six Sigma Black Belt.], Mr.Gangadhar Chowdary T [CEO, Managing Director, Pivotalsoft IT Services P. LTD] and Mr.Sridhar Kambala [Technical Program Manager at Evolutyz Corp].



**MOCK DRIVE:** Conducted in three rounds like Written Exam, Group Discussion and Final Interview with the following resource persons Ms. Saeeda Sayed (Senior Counsellor), Ms. Logitha P (Admin Executive) and Mr. Naidu Ravada (Admin Incharge) of Edwise International LLP, Dwarakanagar, Visakhapatnam. Out of 154 Registered Candidates, 70 Qualified for Round -1 (Written Exam), 34 Qualified for Round -2 (Group Discussion) and Final Winners after Round-3 (Interview) are 07.

### PHOTOGRAPHY:

Photography contest has been conducted from 5<sup>th</sup> to 20<sup>th</sup> FEB 2020. The Photography contest is conducted Online in our Instagram official page (Tachyon 2020) of ECE Department. Out of 29 participants there are two winners. First winner is decided by M. Suresh (Photographer) and first gift is worth 500/- given to Sai Venkatesh Sunkara on the theme Fauna. Second winner is declared based on more number of likes on our Instagram page. Second winner gift is worth 300/- given to Harsha Bandaru.



**ACTING WARS:** This contest has been conducted from 4<sup>th</sup> to 18<sup>th</sup> FEB 2020. It is conducted Online in our Instagram official page (Tachyon 2020) of ECE Department. 1st winner G. Reshma (2/4 Ece-C, ANITS), No. of Likes: 1331, has been taken on the basis of Highest likes on their Video (The motto is to Promote Tachyon2020 page) 2nd winner Afreen Firdaus (4/4 Ece-C, ANITS) is taken on the basis of Performance (To Encourage Talent).



**FLASHMOB:** Every year as a part of promotional events of Tachyon 2020 we conduct “Flash Mob”. Around 600 students from our department attended the event. It helped us to spread awareness through entertainment and in promoting our sponsors. The event started on 23rd Feb at 5:00 pm with a theme song to “avoid plastic.”



**2K RUN:** Every year as a part of the Annual Techfest of Department of ECE, we conduct awareness programs at beach road from 6:00 Am to 8:00 Am. The event started at 6:30 Am on 23rd Feb 2020 with around 300 students from kalimatha temple at beach road to YMCA. After the marathon, the top three runners were awarded with prizes. Students danced to the theme song conveying the message “Importance of Farming” which was very moving. Later there was a brief “Zumba Dance” session in which trainers brought out the dancers in all the participants.

**KNOWLEDGE HUNT:** This is purely a non technical quiz competition conducted as a part of pre-fest event in Tachyon 2020. Nearly 65 teams have participated. Firstly we conducted screening test. Then 10 teams are short-listed for final quiz that have different types of rounds like: Mythology, General Knowledge, Current Affairs, Cinema Knowledge & Visual Round. First prize : K.Raj kumar & K.K Karthik of 3/4 Mech-B, Second prize : M.V.R Nikhil & K.Sri Varsha of 4/4 Cse-A and Third prize : U.V Harish & Ch.Deekshith of 3/4 Cse-B.

### TECHNICAL EVENTS:

**PAPER PRESENTATION:** As a part of Tachyon 2020, we received more than 100 papers from internal and external participants out of which 38 papers were selected for the presentation based on the quality of the technical content. Totally 5 sessions are conducted in two venues for the two days paper presentation event. In order to encourage the students for participating in paper presentation event, two prizes are awarded for each venue. The prize winners are awarded with merit certificates with cash prize of 1500/- for 1st prize and 750/- for each 2nd prize.





**HARDWARE EXPO:** On the occasion of Tachyon 2020 a Two days Hardware expo has been organized by Tinkerer's Lab of department of ECE in association with professional bodies IETE and ACES. A total of 209 students participated in the Hardware Expo. Among the participants 24 were from GMRIT and GPT colleges and the others were from ANITS. The workshop is conducted at EDC Lab & ICA lab of ECE department with 34 projects and 27 projects in each Venue respectively. Initially only 4 prizes were allocated for the Expo with an amount of Rs.11, 000 /- as per the guidelines from the organizing committee. But due to the immense response and to justify the hard work carried-out by the students, the no. of prizes had been increased to 10 weighing an astonishing amount of Rs. 22,000 /- by the HOD Madam & Judges of the event after the discussion with the Tachyon 2020 organizing committee.

**NON TECHNICAL EVENTS:**

**ART EXPO:** This event concentrated on exposure of hidden talents in students related to arts such as Painting, pencil sketches, handmade crafts, charcoal art, etc... We got 141 arts exhibited during two days of Tech Fest in room B-305. The Expo is concluded with 11 winners.

**LAN GAMING:** This event is especially for those whose passion is gaming. Need for speed, Naruto ninja storm, Pro evolution soccer.

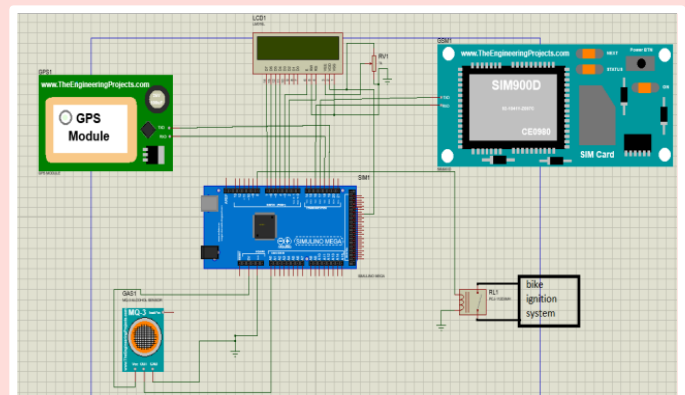
**FANDOM:** Fandom is an event conducted based on the movie knowledge in four categories. The four categories are marvel, DC, Harry Potter and Game of Thrones. 53 members have participated in the first round. At last two teams won the event with first and second positions respectively.



**TELUGU PALUKU:**

This event is especially to showcase love and knowledge towards our language. Prof. S. Subba Rao, Dept. of Chemical Engg. & Dr. V.Rajya Lakshmi, HOD, ECE were the Judges. The event is successfully completed in 4 rounds with 33 Participants.

**PATENT FILED**



Patent filed for the invention titled "METHOD AND SYSTEM FOR AVOIDANCE OF ACCIDENTS" by Dr.V.Rajyalakshmi, HOD, ECE. Mr.B.Chandra Mouli, Asst. Prof. & Ch. Sai Kishore Student on July 13, 2020.



## FACULTY ACHIEVEMENTS

1. Dr.V.Rajyalakshmi, HOD, ECE has been awarded as “Outstanding Woman in Engineering” for the contribution and achievement in the field of Electronics and Communications in 5<sup>TH</sup> VENUS INTERNATIONAL WOMEN AWARDS - VIWA 2020 by the Centre for Advanced Research and Design (CARD) of Venus International Foundation (VIF), Chennai on 7th March 2020.
2. Dr.V.Rajyalakshmi, HOD, ECE, Being Joint Research Director, **Guided Ramesh Manikonda successfully for his award of Ph.D degree** on thesis entitled “Investigations on Performance Characteristics of Textile Antennas using Electromagnetic Band Gap Structures (EBG) and Defected Ground Structures (DGS) for Wearable Applications” by Andhra University in July 2020.
 
3. Dr.A.Lakshmi Narayana Asst., Prof., ECE had awarded “Excellence Young Scientist Award” for hard work and commitment to the profession by the SPNS Technologies, Guntur and Novel Patent Services, Visakhapatnam on 29th March 2020.
4. Dr. A.Lakshmi Narayana, Asst., Prof., ECE had awarded with Ph.D for his thesis work titled “Development of Bandwidth Based VHA along with Hybrid PAPR Reduction technique for Next Generation Wireless Heterogeneous Networks” on August 2019 from GITAM(Deemed to be University).
5. Mr.J.Bhaskara Rao, Asst., Prof., ECE had awarded with Ph.D for his thesis work titled “Non- Contact Methods for Surface Roughness Measurement for Quality Estimation Using Image Processing Techniques” under the supervision of Dr.J.B.Seventline, from Department of Electronics and Communication Engineering, from GITAM(Deemed to be University) on 14<sup>th</sup> March 2020.
6. Mr.K.V.G.Srinivas, Asst., Prof., ECE had awarded with Ph.D for his thesis work titled “Investigations on Multiplexer and compressor based floating point multiplication for IEEE 754 standard” under the supervision of Dr.P.Samundiswary, Asst.Prof., from Department of Electronics Engineering, Pondicherry Central University on 28<sup>th</sup> February 2019.
7. Dr.B.Soma Sekhar, Assoc.Prof., has been Recognized as CO-Supervisor for P.hD scholar admitted in Andhra university on 26th September 2019.
8. Dr.B.Soma Sekhar, Assoc.Prof., has been Recognized as CO-Supervisor for P.hD scholar admitted in Annamalai University, Tamilnadu in September 2019.
9. Dr.G.Manmadharao, Prof., has been Recognized as CO-Supervisor for P.hD scholar admitted in Andhra university on 26th September 2019.
10. Mr.P.Devi Pradeep, Asst.Prof., ECE has given webinar on “Memory elements in digital computers” in Er.Perumal Manimekalai College of Engineering on 17-05-2020.
11. Mr.B.Jena, Ass.Prof., ECE an author for book chapter titled “Nature-Inspired Optimization Algorithm and Benchmark Functions: A Literature Survey” in a book titled “Computational Intelligence: Theoretical Advances/Advanced Applications” Walter de Gruyter publications in May 2020.
12. Dr.P.Murugapandiyan, Assoc.Prof., Dr.V.Rajyalakshmi, Prof., HOD and Mr.N.Ramkumar, Asst.Prof., ECE published a book chapter titled “GaN-Based High-Electron Mobility Transistors for High-Power and High-Frequency Application: A Review” in “Innovations in Electronics and Communication Engineering” a Lecture Notes in Networks and Systems, volume 107, Springer, Singapore. DOI: [https://doi.org/10.1007/978-981-15-3172-9\\_33](https://doi.org/10.1007/978-981-15-3172-9_33). Print ISBN 978-981-15-3171-2. Online ISBN:978-981-15-3172-9, April 2020.
13. Dr.B.Somasekhar, Assoc.Prof., ECE is an author for a book titled “Suboptimal Energy-Efficient Resource-Allocation to Maximize Energy Efficiency in OFDM System” LAMBERT Publications on April, 2020.ISBN:978-620-2-51338-8.
14. Dr.B.Somasekhar, Assoc.Prof., ECE Published a book titled "Investigations on MIMO-OFDM wireless communication system (Performance Analysis on PAPR reduction and Interference Mitigation)" LAMBERT Publications on April, 2020.
15. Dr.P.Murugapandiyan, Assoc.Prof and Mr.N.Ramkumar, Asst.Prof., ECE Acted as Resource person and organized a Two days online Workshop on “EMBEDDED SYSTEM DESIGN on 8-bit MICROCONTROLLER USING KEIL (IDE)” at Anil Neerukonda Institute of Technology & Sciences,Visakhapatnam from 29.05.2020 & 30.05.2020.
16. Mr.N.Ramkumar, Asst.Prof., ECE Developed Microcontroller and Embedded C programming Lecture Series and uploaded it on YOUTUBE channel for the benefit of our students(19 lectures completed & still 11 more left)- Total - 30 lectures.
17. Mr.D.Anil Prasad, Asst.Prof. ECE Given webinar on "Google Classroom for professional Learning"

- hosted by Department of ECE, ANITS, 06th June 2020.
18. Dr.S.Srinivas, Associate Professor, ECE Given webinar on "Current Research Trends in VLSI" hosted by VIET, Narava, 5th June 2020.
  19. Mr.D.Anil Prasad, Asst.Prof. ECE Given webinar on "Tinkercad for Designing circuits using Arduino" hosted by Department of Mechatronics Engineering, SNS College of Technology (A), Chennai, 24th June 2020.
  20. Dr.P.Murugapandiyam, Assoc.Prof., Delivered a Lecture on "Advanced III-Nitride high electron mobility transistors (HEMTs) for 5G and beyond; Introduction to TCAD simulation of III-N-based heterostructure devices" for A Five Day Online National Level Faculty Development Program On "Opportunities and Challenges in Next-Generation Semiconductor Devices, 18th June 2020.
  21. Dr.P.Murugapandiyam, Assoc.Prof. and Mr.N.Ramkumar, Asst.Prof., ECE organized A Five Day Online National Level Faculty Development Program On "Opportunities and Challenges in Next-Generation Semiconductor Devices" at Anil Neerukonda Institute of Technology & Sciences, Visakhapatnam 16.06.2020 to 20.06.2020.
  22. Mr.N.Ramkumar, Asst.Prof., ECE Organized MHRD Impact Series Webinar on "Entrepreneur's Journey in CyberSecurity" held by ANITS - IIC, Anil Neerukonda Institute of Technology and Sciences, Visakhapatnam on 27<sup>th</sup> June 2020.
  23. Dr.A.Lakshmi Narayana, Asst.Prof., ECE Organized A Five Day National Level Online Faculty Development Program is arranged for the benefit of faculty on "Skill Development for Effective Research and Teaching - Learning Process" is organized by the department of ECE from 8th to 12th June, 2020.
  24. Ms.V.Shireesha, Asst.Prof, ECE qualified UGC NET-2019 (Assistant Professor) Examinations in June 2019.
  25. Dr.D.Eswar chaitanya Asst.Prof.,ECE has been reviewer for the article titled "Pedestrian Localisation in the typical Indoor Environments" for International Journal of Communication Systems in June 2019.
  26. Mr.J.Bhaskara Rao Asst.Prof., Dept. of ECE had selected as a technical program committee member for International Conference on Communication Systems and Network Technologies (CSNT-2020) is organized by IEEE MP Sub Section and MIR Labs, Gwalior.
  27. Mr.G.V.Raviteja, Asst.Prof., ECE have been appreciated by Department of ECE as a Young Researcher for the academic year 2018-2019 on 20<sup>th</sup> July 2019.
  28. Mr.P.Devi Pradeep, Asst.Prof., ECE have been awarded with cash prize of Rs: 2000/-and appreciated by Department of ECE for Completing Five NPTEL courses for the academic year 2018-2019 on 20<sup>th</sup> July 2019.
  29. Mr.R.Chandra Sekhar, Asst.Prof., ECE have been awarded with cash prize of Rs: 2000/-and appreciated by Department of ECE for Completing Five NPTEL courses for the academic year 2018-2019 on 20<sup>th</sup> July 2019.
  30. Mr.N.Ram Kumar., Asst., Prof., ECE appreciated by the Department with cash prize of 5000/- rupees for conducting the dristi online contest to the students in the academic year 2018-2019 on 20<sup>th</sup> July 2019.
  31. Mr. B. Chandra Mouli, Asst.Prof., ECE appreciated by the Department for guided and involved in developing "Automated College Bell using Arduino" by final year students Mr.R.Eswar and Mr.M.N.Mankanta Kumar and successfully installed in the College on 20<sup>th</sup> July 2019.
  32. Dr.D.Eswar chaitanya Asst.Prof.,ECE appreciated by the Department for getting highest feedback from II/IV ECE Students for the academic year 2018-2019 on 20<sup>th</sup> July 2019.
  33. Mr.N.Srinivas Naidu, Asst.Prof.,ECE appreciated by iB Hubs Super 30 for Inspiring the students for various competitions on 7<sup>th</sup> august 2019.
  34. Ms.Ch.Anoosha, Asst.Prof., Mr.N.Srinivas Naidu, Asst.Prof., and Mr.N.Ram Kumar, Asst.Prof., ECE are honored by the Texas Instruments, DST and nominated as a member of the prestigious "Confederation of Elite Academicians of IICDC" design contest by AICTE and IIM Bangalore for outstanding contributions and stellar commitment to inspiring engineering students to innovate and create ground breaking solutions in November 2019.
  35. Mr.N.Srinivas Naidu, Asst.Prof, ECE selected as evaluator for DST & Texas Instruments(TI) Inc, Innovative Challenge Design Contest (IICDC 2019) quarter finals on October 2019.
  36. Mr.J.Bhaskara Rao Asst.Prof., ECE has been reviewer for the article titled "Arabic Handwritten Character Recognition using Machine Learning Approaches" for 5<sup>th</sup> International Conference on Image Information Processing in November 2019.
  37. Mr.J.Bhaskara Rao Asst.Prof., ECE has been reviewer for the article titled "Hardware Implementation of Fixed Point BRAM FIR Filter for Signal Processing Application Using FPGA" for 5<sup>th</sup> International Conference on Image Information Processing in November 2019.
  38. Mr.J.Bhaskara Rao Asst.Prof., ECE has been reviewer for the article titled "A cost-effective data node management scheme for hadoop clusters in C"

- for Symposium on Machine Learning and Metaheuristics Algorithms, and Applications (SOMMA-19) will be organized at held in Trivandrum, Kerala, India during December 18-21, 2019.
39. Mr.J.Bhaskara Rao Asst.Prof., ECE has been reviewer for the article titled “ A C-LSTM with Attenuation Mechanism for Question Categorization” for Symposium on Machine Learning and Metaheuristics Algorithms, and Applications (SOMMA-19) will be organized at held in Trivandrum, Kerala, India during December 18-21, 2019.
  40. Mr.J.Bhaskara Rao Asst.Prof., ECE has been reviewer for the article titled “Students Perceived Engagement in Technology Enhanced Flipped Language” for 5<sup>th</sup> International Conference on Education and Technology (ICET 2019).
  41. Mr.J.Bhaskara Rao Asst.Prof., Dept. of ECE had selected as a technical program committee member Symposium on VLSI Design and Embedded Computing (VDEC'19) technically co-sponsored by IEEE and IEEE Communications Society organized at Indian Institute of Information Technology and Management-Kerala (IIITM-K), Trivandrum, India during December 18-21, 2019.
  42. Mr.J.Bhaskara Rao Asst.Prof., Dept. of ECE had selected as a technical program committee member for Symposium on Machine Learning and Metaheuristics Algorithms, and Applications (SOMMA-19) will be organized and held in Trivandrum, Kerala, India during December 18-21, 2019.
  43. Mr.J.Bhaskara Rao Asst.Prof., Dept. of ECE had selected as a technical program committee member for 5th International Symposium on Intelligent Systems Technologies and Applications (ISTA'19) will be organized at held in Trivandrum, Kerala, India during December 18-21, 2019.
  44. Mr.J.Bhaskara Rao Asst.Prof., Dept. of ECE had selected as a technical program committee member for 5<sup>th</sup> International Conference on Education and Technology (ICET 2019) on 15<sup>th</sup> September 2019.
  45. Mr.J.Bhaskara Rao Asst.Prof., Dept. of ECE had selected as a National Advisory Member for the International Conference on Advances in Science, Engineering and Technology (ICASET-2020), which is scheduled to take place on the 26th and 27th of June, 2020, Bangalore.
  46. Mr.J.Bhaskara Rao Asst.Prof., Dept. of ECE had selected as a technical program committee member for 3rd International Conference on Computer Applications & Information Security (ICCAIS-2020) will be organized at Fiduciam Global Riyadh,Saudi Arabia.
  47. Mr.J.Bhaskara Rao Asst.Prof., Dept. of ECE had selected as a technical program committee member for International Conference on Smart Education and Applied Social Sciences (SEAS'20) will be organized at Wolfson College, University of Cambridge
  48. Mr.J.Bhaskara Rao Asst.Prof., Dept. of ECE had selected as a technical program committee member for The Symposium on Signal Processing for Wireless and Multimedia Communications (SPWMC'19) Technocity Campus, Pallippuram, Trivandrum on 21st December 2019.
  49. Ms.P.Chaya Devi, Asst.Prof, ECE recognized as a mentor for NPTEL course titled “Introduction to programming in C” from IIT Madras in duration july-Dec-2019.
  50. Mr.J.Bhaskar, Asst.Porf, ECE is an active Professional member of the Institute For Engineering and Research Publications - IFERP from 7<sup>th</sup> January 2020 to 31<sup>st</sup> December 2020.
  51. Ms.Ch.Anoosha, Asst.Prof, ECE recognized as a mentor for NPTEL course titled “Digital Circuits” from IIT Madras in duration july-Dec-2019.
  52. Ms.P.Devi Pradeep, Asst.Prof, ECE got certificate of appreciation for being recognized as a NPTEL Motivated Leader in December 2019.
  53. Ms.V.Shireesha, Asst.Prof, ECE qualified UGC NET-2019 (Assistant Professor) Examinations in December 2019.
  54. Mr.B.Chandra Mouli, Asst.Prof, ECE qualified UGC NET-2019 (Assistant Professor) Examinations in December 2019.
  55. Dr.B.Somasekhar, Assoc.Prof., ECE has reviewed the paper " Research on MIMO antenna isolation based on novel mesh isolation rings” CNT2666 (CECNet 2020 - Seoul Republic of South Korea).
  56. Dr.B.Somasekhar, Assoc.Prof., ECE has reviewed the paper " Channel Estimation Using Approximate Conjugate Gradient Pursuit for Hybrid MIMO System in Millimeter Wave Communication" for (INDISCON-2020) in May 2020.
  57. Dr.P.Murugapandiyam, Ms.V.Shireesha, Mr.B. Chandra Mouli, got silver in NPTEL online Certification course from IIT Kharagpur in the duration August-October 2019 (8 weeks).
  58. Ms.P.ChayaDevi, Ms.V.Shireesha, got silver in NPTEL online Certification course from IIT Madras in the duration August-October 2019 (8 weeks).
  59. Mr.R.ChandraSekhar, got silver in NPTEL online Certification course from IIT Kanpur in the duration August-October 2019 (8 weeks).

### **NPTEL CERTIFICATION COURSES**

1. Dr.P.Murugapandiyan, Assoc.Prof ECE has completed and got silver in NPTEL online Certification course in Accreditation and outcome based learning with a consolidated score of 81% from IIT Kharagpur in the duration August-October 2019 (8 weeks).
2. Ms.V.Shireesha, Asst.Prof ECE has completed and got silver in NPTEL online Certification course in Accreditation and outcome based learning with a consolidated score of 85% from IIT Kharagpur in the duration August-October 2019 (8 weeks).
3. Mr.B.Chandra Mouli, Asst.Prof ECE has completed NPTEL online Certification course and got silver certificate in Accreditation and outcome based learning with a consolidated score of 82% from IIT Kharagpur in the duration August-October 2019 (8 weeks).
4. Ms.P.ChayaDevi, Asst.Prof ECE has completed and got silver in NPTEL online Certification course in Introduction to research with a consolidated score of 80% from IIT Madras in the duration August-October 2019 (8 weeks).
5. Ms.V.Shireesha, Asst.Prof ECE has completed and got silver in NPTEL online Certification course in Digital Image Processing with a consolidated score of 80% from IIT Madras in the duration July-October 2019 (12 weeks).
6. Mr.R.ChandraSekhar, Asst.Prof ECE has completed and got silver in NPTEL online Certification course in Principles of Modern CDMA/MIMO/OFDM Wireless Communications with a consolidated score of 75% from IIT Kanpur in the duration August-October 2019 (8 weeks).
7. Dr.A.LakshmiNarayana, Asst.Prof ECE has completed NPTEL online Certification course in Accreditation and outcome based learning with a consolidated score of 72% from IIT Kharagpur in the duration August-October 2019 (8 weeks).
8. Mr.G.Viswanadh Ravi Teja, Asst.Prof ECE has completed NPTEL online Certification course in Accreditation and outcome based learning with a consolidated score of 55% from IIT Kharagpur in the duration August-October 2019 (8 weeks).
9. Ms.G.Gayatri, Asst.Prof ECE has completed NPTEL online Certification course in Introduction to research with a consolidated score of 62% from IIT Maras in the duration August-October 2019 (8 weeks).
10. Ms.Ch.Anoosha, Asst.Prof ECE has completed NPTEL online Certification course in Principles and Techniques of Modern Radar Systems with a consolidated score of 48% from IIT Maras in the duration July-October 2019 (12 weeks).
11. Ms.M.Nirmala, Asst.Prof ECE has completed NPTEL online Certification course in Microwave Theory and Techniques with a consolidated score of 69% from IIT Bombay in the duration July-October 2019 (12 weeks).
12. Mr.P.Devi Pradeep, Asst.Prof ECE has completed NPTEL online Certification course in Sensor and Actuators with a consolidated score of 62% from IISc Bangalore in the duration July-October 2019 (12 weeks).
13. Mr.B.Jena, Asst.Prof ECE has completed and got silver in NPTEL online Certification course in Accreditation and outcome based learning with a consolidated score of 86% from IIT Kharagpur in the duration August-October 2019 (8 weeks).
14. Dr.G.Manmadha Rao, Prof., ECE has completed NPTEL online Certification course in Accreditation and outcome based learning with a consolidated score of 71% from IIT Kharagpur in the duration August-October 2019 (8 weeks).
15. Ms.D.Nagamani, Asst.Prof ECE has completed NPTEL online Certification course in Digital Image Processing with a consolidated score of 73% from IIT Madras in the duration July-October 2019 (12 weeks).
16. Ms.P.Devi, Asst.Prof ECE has completed NPTEL online Certification course in Introduction to research with a consolidated score of 67% from IIT Maras in the duration August-October 2019 (8 weeks).

### **MOOC's COURSES DONE BY FACULTY**

Faculty of ECE Dept. Completed 106 MOOCs's Courses During Lock Down Period. [22<sup>nd</sup> March to 30<sup>th</sup> June 2020].

### **WEBINAR's ATTENDED BY FACULTY**

Faculty of ECE Dept. attended 177 Webinar's During Lock Down Period. [22<sup>nd</sup> March to 30<sup>th</sup> June 2020].

### **QUIZ's ATTENDED BY FACULTY**

Faculty of ECE Dept. attended 171 Quiz's During Lock Down Period. [22<sup>nd</sup> March to 30<sup>th</sup> June 2020].

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

1. Ms.B.Deepa, Asst.Prof and Ms.P.Chaya Devi, Asst.Prof., Dept. of ECE has attended one day Tech workshop on "**Advanced Manufacturing Technology**" conducted at Centre of Excellence in Maritime and Shipbuilding, Visakhapatnam on 13th July 2019.
2. Ms.Ch.Anoosha, Asst.Prof and Ms.G.Gayatri, Asst.Prof., Dept. of ECE has attended one day Tech workshop on "**Digital Signal Processing using Python(through Raspberry Pi)**" organized by IEEE Communications and Signal Processing Societies Joint

Chapter in collaboration with IEEE Vizag Bay Sub Section at GITAM university on 16th July 2019.

3. Ms.K.Yashoda, Asst.Prof., has attended a two day IEEE workshop on **“Channel Coding in 5G”** organized by IEEE Hyderabad section at MVGR College of Engineering(A) Vizianagaram during 24<sup>th</sup> - 25<sup>th</sup> August 2019.
4. Ms.Ch.Anoosha, Asst.Prof., and Ms.B.Deepa, Asst.Prof Dept. of ECE has attended one day workshop on **“Artificial Intelligence and Internet of Things”** organized by Vincode Technologies conducted at Vincampus, Visakhapatnam on 31<sup>st</sup> August 2019.
5. Ms.D.Nagamani Asst.Prof., and Ms.PSM.Veena, Asst.Prof Dept. of ECE has attended Two day workshop on **“Hyperspectral Image Analysis and Applications”** organized by Dept., of Geo Engineering, AU College of Engineering, AU, Visakhapatnam during 19<sup>th</sup> -20<sup>th</sup> July 2019.
6. Dr.P.Murugapandiya, Assoc.Prof ECE has participated in EBSCO-IEEE Lunch & Learn Knowledge Feast Seminar on **“Focused on Achieving Digital Transformation through Engineering Education and IEEE digital Packages”** held at Novotel, Visakhapatnam on 25<sup>th</sup> September 2019.
7. Dr.P.Murugapandiya, Assoc.Prof, ECE has participated in **“Power Semiconductor Device Modeling & TCAD Simulation”** organized by the department of Micro & Nano Electronics, School of Electronics Engineering (SENSE), Vellore Institute of Technology, Vellore, Tamil Nadu during 29<sup>th</sup> Nov- 1<sup>st</sup> December 2019.
8. Ms.M.Nirmala, Asst.Prof, Ms.B.Deepa, Asst.Prof, Ms.P.Chaya Devi, Asst.Prof, Ms.P.Devi, Asst.Prof, Mr.Sahu Vijay Kumar, Asst.Prof and Mr.G.V.Raviteja, Asst.Prof, ECE have attended three day workshop on **“Antenna Design Using High-Frequency Structure Simulator (HFSS)”** organized by department of ECE, ANITS during 26<sup>th</sup> -28<sup>th</sup> December 2019.
9. Mr.J.Bhaskara Rao Asst.Prof ECE has participated Two day national Conference titled **“Innovative Mechanisms & Standards for Assuring Quality in HEIs- IAQHEI 2020”** organized by KL University, Gutur during 6<sup>th</sup> – 7<sup>th</sup> March 2020.
10. Faculty of ECE Dept. attended 14 Workshop’s During Lock Down Period. [22<sup>nd</sup> March to 30<sup>th</sup> June 2020]

#### FDP’s/STTP’s ATTENDED BY FACULTY

1. Dr.P.Murugapandiya, Assoc.Prof, Dr.S.Srinivas, Assoc.Prof, Mr.J.Bhaskar Rao, Asst.Prof., Mr.D.AnilPrasad, Asst.Prof, Mr.N.Ram Kumar Asst.Prof and Ms.P.Chaya Devi, Asst.Prof., have attended AICTE sponsored Two week FDP titled **“Design Challenges in Deep Sub-Micron Technologies”** organized by Department of ECE, Raghu Institute of Technology, Visakhapatnam during 5<sup>th</sup>- 19<sup>th</sup> August 2019.
2. Mr.J.Bhaskar, Asst.Prof, and Mr.B.ChandraMouli, Asst.Prof ECE have attended 15 sdays AICTE sponsored short term course on **“Smart Electronics for Connected Communities (SECC-2019)”** at Department of Electronics Engineering, IIT (BHU), Varanasi during 6<sup>th</sup>-18<sup>th</sup> January 2019.
3. Mr.R.Chandrasekhar, Asst.Prof, ECE had attended two week AICTE Sponsored Faculty Development Programme (FDP) on **“Next Generation Wireless Systems and Networks-Theory and Practice”** organized by the Department of Electronics and Communication Engineering, Shri Vishnu Engineering College for Women, Vishnupur, Bhimavaram during 1<sup>st</sup> -14<sup>th</sup> August 2019.
4. Faculty of ECE Dept. attended 199 FDP’s During Lock Down Period. [22<sup>nd</sup> March to 30<sup>th</sup> June 2020].
5. Faculty of ECE Dept. attended 19 STTP’s During Lock Down Period. [22<sup>nd</sup> March to 30<sup>th</sup> June 2020]

#### FACULTY PAPER PUBLICATIONS IN CONFERENCE

1. Dr.P.Murugapandiya, Assoc.Prof ECE presented a paper titled **“GaN based high electron mobility transistors for high power and high frequency application: a review”** in 8<sup>th</sup> international conference on innovations in Electronics and communication engineering (ICIECE-2019) organized by Dept.of ECE, Guru Nanak institutions, Hyderabad during 2<sup>nd</sup> - 3<sup>rd</sup> August 2019.
2. Ms.B.Deepa, Asst.Prof., Ms.Ch.Anoosha, Asst.Prof and Ms.P.Chaya Devi Asst.Prof ECE has presented a paper titled **“Smart Agriculture using IoT”** at 6<sup>th</sup> International Conference on Information System Design and Intelligent Applications (INDIA 2019) organized by Department of Computer Science and Engineering, Lendi Engineering College, Vizianagaram during 1<sup>st</sup> – 2<sup>nd</sup> November 2019.
3. Ms.G.Gayatri Asst.Prof ECE has presented a paper titled **“Arrhythmia Recognition and Evaluation of ECG Signal using Signal Processing Techniques”** at 6<sup>th</sup> International Conference on Information System Design and Intelligent Applications (INDIA 2019) organized by Department of Computer Science and Engineering, Lendi Engineering College, Vizianagaram during 1<sup>st</sup> – 2<sup>nd</sup> November 2019.
4. Dr.V.Rajyalakshmi, HOD, Dr.P.MurugaPandian, Assoc.Prof and Mr.N.Ram Kumar Asst.Prof, ECE have presented a paper titled **“High Performance analysis of nanoscale InAlN/GaN High Electron Mobility Transistor High power millimeter wave**

- Applications**” in an International Conference on Chip, Circuitry, Current, Coding, Combustion & Composites (I7C-2019) organized by Sri Sairam College of Engineering(SSCE), Bangalore during 28<sup>th</sup> -29<sup>th</sup> November 2019.
5. Mr.B.Jena, Asst.Prof., ECE had presented paper titled **“A Comparative Study on Multilevel Thresholding using Meta-Heuristic Algorithm”** in an International Conference on Applied Machine Learning (ICAML) organized by Siksha ‘O’ Anusandhan Deemed to be University in Bhubaneswar, Odisha during September 27-28, 2019. DOI 10.1109/ICAML48257.2019.00019. PP: 57-62 (Scopus indexed).
  6. Ms.P.ChayaDevi, Asst.Prof., ECE has presented a paper titled **“Positioning Strategies: Implementation and Applications of Major Source Localization and positioning Approaches over Indian Subcontinents”** in the 5<sup>th</sup> International Conference on Micro-Electronics, Electromagnetics and Telecommunications (ICMEET) organized by dept.of ECE, Raghu Institute of Technology, Visakhapatnam during 6<sup>th</sup> -7<sup>th</sup> December 2019.
  7. Ms.Ch.Anoosha, Asst.Prof., ECE has presented a paper titled **“Comparison on Radar Echo Cancellation Techniques for SAR Jamming”** in the 5<sup>th</sup> International Conference on Micro-Electronics, Electromagnetics and Telecommunications (ICMEET) organized by dept.of ECE, Raghu Institute of Technology, Visakhapatnam during 6<sup>th</sup> -7<sup>th</sup> December 2019.
  8. Ms.P.ChayaDevi, Asst.Prof. and Ms.B.Deepa Asst.Prof., ECE have presented a paper titled **“Design and Analysis of symmetric and Asymmetric staircase Patch Antenna”** in the 5<sup>th</sup> International Conference on Micro-Electronics, Electromagnetics and Telecommunications (ICMEET) organized by dept.of ECE, Raghu Institute of Technology, Visakhapatnam during 6<sup>th</sup> -7<sup>th</sup> December 2019.
  9. Mr.KVG.Srinivas, Asst.Prof. and Mr.N.Srinivas Naidu, Asst.Prof., ECE have presented a paper titled **“A safe and Cost effective algorithm for automation of LPG cylinder using ESP8266”** in the 5<sup>th</sup> International Conference on Micro-Electronics, Electromagnetics and Telecommunications (ICMEET) organized by dept.of ECE, Raghu Institute of Technology, Visakhapatnam during 6<sup>th</sup> -7<sup>th</sup> December 2019.
  10. Dr.P.Murugapandiya, Assoc.Prof, ECE had presented a paper titled **“High Performance Analysis InAlGaIn/GaN/AlGaIn for High Power RF Applications”** in an International Conference on Computing, Communication, Electrical and Electronics Engineering ICCCEE-2020, organized by G.Pulla Reddy Engineering College (Autonomous), Kurnool during 10th - 11th January 2020.
  11. Mr.B.Jena, Asst.Prof., ECE had presented a paper titled **“A Comparative Study on Multilevel Thresholding Using Meta-Heuristic Algorithm”** in an International 2019 International Conference on Applied Machine Learning (ICAML), Bhubaneswar, 25-26 May 2019, IEEE Xplore: 10 February 2020.

#### FACULTY PAPER PUBLICATIONS IN JOURNALS

1. Ms.Ch.Anoosha, Asst.Prof, Ms.PSM.Veena, Asst.Prof and Ms.D.Nagamani, Asst.Prof Dept.of ECE have published a paper titled **“Image Encryption using Substitution-Permutation Chaotic map”** in an international Journal of Information and Computational Science (JOICS), Vol 9, Issue 9, PP: 456-465, September 2019.
2. Dr.P.MurugaPandian, Assoc.Prof and Dr.V.Rajyalakshmi, HOD, ECE have published a paper titled **“Investigation of Quaternary Barrier InAlGaIn/GaN/AlGaIn Double-Heterojunction High Electron - Mobility Transistors (HEMTs) for High-Speed and High-Power Applications”** Journal of ELECTRONIC MATERIALS, Volume 49, Issue 1, PP:524-529, 10.1007/s11664-019-07731-4 2019 The Minerals, Metals & Materials Society, (Springer- SCI indexed) on 22<sup>nd</sup> October 2019.
3. Mr.G.Viswanadh Raviteja, Asst.Prof ECE published a paper titled **“A 2X2 Millimeter-Wave Microstrip Antenna Array for 5G Applications”** in an international European journal of Engineering Research and Science, Vol 4, No 10, PP: 55-58, October 2019.
4. Mr.G.Viswanadh Raviteja, Asst.Prof ECE published a paper titled **“A Dual-Band Millimeter-Wave Microstrip Antenna Array for 5G Applications”** in an International Journal of Computer Applications, Volume 177, No:15, PP: 48-51, November 2019.
5. Mr.G.Viswanadh Raviteja, Asst.Prof ECE published a paper titled **“A 4-element Corporate Series Feed Millimeter-Wave Microstrip Antenna Array for 5G Applications”** in an international Journal of Electronics and Communication Engineering, Vol 13, No 11, PP:674-677, November 2019.
6. Mr.P.Devi Pradeep, Asst.Prof ECE published a paper titled **“Implementation of International Data Encryption Algorithm”** in an International Journal of Engineering Trends and Technology (IJETT), Vol 67, Issue 11, PP: 31-34, November 2019.
7. Dr.P. Murugapandiyan, Assoc.Prof ECE published a paper titled **“Design and Development of high power microwave Tubes- Reltron”** in an International Journal of the Gujarat research society, ISSN: 0374-

- 8588 Volume 21 Issue 8, November 2019. (UGC indexed)
8. Dr.P. Murugapandiyan, Assoc.Prof ECE and Dr.V.Rjya Lakshmi, HOD ECE published a paper titled **“Investigation of AlGa<sub>N</sub>/Ga<sub>N</sub> High Electron Mobility Transistors performance for various Al content and barrier layer thicknesses”** in an International Journal of the Gujarat research society, ISSN: 0374-8588, Volume 21 Issue 8s, November 2019. (UGC indexed).
  9. Mr.P.Devi Pradeep, Asst.Prof., ECE has published a paper titled **“Design of Class D Audio Power Amplifier Suitable to Hearing Aid Devices”** in International Journal of Innovative Technology and Exploring Engineering (IJITEE, ISSN: 2278-3075, Volume-9 Issue-3, PP:143-152, January 2020 (SCOPUS).
  10. Ms.Ch.Padmasree, Asst.Prof. , Ms.V.Shireesha, Asst.Prof. and Ms.P.Chaya Devi, Asst.Prof., ECE had published a paper titled **“Equalization for Underwater Acoustic Coded OFDM Communication System Over Multipath Fading Via Simulation Platform”** in an International Journal of Innovative Technology and Exploring Engineering (IJITEE), Volume 9, Issue 2S3, PP:292-294, ISSN:2278-3075, DOI: 10.35940/ijitee.B1075.1292S319, December 2019.
  11. Dr.A.Lakshmi Narayana, Asst.Prof., ECE had published a paper titled **“Spectral Efficiency of FBMC Over OFDM System”** in an International Journal of Innovative Technology and Exploring Engineering (IJITEE), Volume 9, Issue 2S3, PP:235-237, ISSN:2278-3075, DOI: 10.35940/ijitee.B1059.1292S319, December 2019.
  12. Dr.P.Murugapandiyan, Assoc.Prof, ECE, Mr.P.Devi Pradeep, Asst.Prof. ECE and Mr.V.Vijay Kumar Raju, Asst.Prof. ECE published a paper titled **“Performance Analysis of In AlN/GaN MOSHEMT for High Power RF Applications”** in an International Journal of Think India Journal, Journal of the Gujarat research society, ISSN:0971-1260 Vol-22- Issue-14-December-2019. (UGC indexed).
  13. Ms.M.Nirmala, Asst.Prof.,Ms.Ch.Anoosha, Asst.Prof. and Ms.D.Nagamani, Asst.Prof. ECE published a paper titled **“Dynamic modeling of a Green House using Arduino”** in an International Journal of Engineering Trends and Technology (IJETT), Volume 68, Issue 2, PP:42-48, DOI:10.14445/22315381/IJETT-V68I2P208, February 2020. (UGC indexed).
  14. Dr.P.Murugapandiyan, Assoc.Prof, ECE published a paper titled **“FPGA implementation of low power 16x16 bit Vedic Multiplier”** in an International Journal of Future Generation Communication and Networking. Vol. 13, No. 3, (2020), pp. 3982–3989, ISSN: 2233-7857 IJFGCN, May 2020.
  15. Dr.B.Somasekhar, Assoc..Prof.,ECE, Mr.Nitin Kumar, Asst.Prof., ECE, Mr.Ch.Sai Kishore and Ms.A Prathyusha has published a paper titled **“Suboptimal Energy- Efficient Resource- Allocation to Maximize Energy Efficiency in OFDM systems”** in international Journal of Management, Technology and Engineering, Vol.10, Issue 3 March 2020.
  16. Dr.P.Murugapandiyan, Assoc.Prof, ECE published a paper titled **“Switching Transient Analysis and Characterization of an E-Mode B-Doped Ga<sub>N</sub>-Capped AlGa<sub>N</sub> DH-HEMT with a Freewheeling Schottky Barrier Diode (SBD)”** in an International Journal of Electronic Materials, DOI: 10.1007\_s11664-020-08113-x, ISSN 0361-5235, April 2020. (Springer).
  17. Dr.P.Murugapandiyan, Assoc.Prof. and Dr.V.Rajyalakshmi, Prof., HOD ECE published a paper titled **“Performance analysis of HfO<sub>2</sub>/InAlN/AlN/GaN HEMT with AlN buffer layer for high power microwave applications”** in an International Journal of Science: Advanced Materials and Devices, ELSEVIER, (Web of Science, SCIE, Scopus indexed), <https://doi.org/10.1016/j.jsamd.2020.04.007> , April 2020.
  18. Dr.P.Murugapandiyan, Assoc.Prof, ECE published a paper titled **“Design and development of cross dipole antenna for satellite applications”** in an International Journal of De Gruyter publishes, DOI: <https://doi.org/10.1515/freq-2019-0066> , ISSN 2191-6349, May 2020.
  19. Mr.B.Jena Asst.Prof., ECE published a paper titled **“A differential evolutionary adaptive Harris hawks optimization for two dimensional practical Masi entropy-based multilevel image thresholding”** in an international journal of King Sau University-Computer and Information Society (ELSEVIER), Vol: 95, May 2020.
  20. Dr.S.Srinivas, Assoc. Prof., ECE published a paper titled **“Gate-Induced Drain Leakage: A Brief Survey on Effects Applications and modelling”** in an international Journal of Test, engineering and Management (TEST),Vol:83, PP:2303-2315, ISSN:0193-4120, May 2020. (SCOPUS).
  21. Dr.G.Manmadha Rao, Assoc., Prof., ECE and Ms.Ch.Anoosha, Asst.Prof., ECE published a paper titled **“Performance Evaluation of Non-Uniform PRI Costas Signal Using Optimization Algorithms”** in an international Journal of Test, engineering and Management (TEST), Vol:83, PP:17740-17746, ISSN:0193-4120, May 2020. (SCOPUS).
  22. Dr.G.Manmadha Rao, Assoc.Prof., ECE has published a paper titled **“Implementation of GOA to Non-**



**Uniform PRI of SFPT for improving Resolution in Radar**” in an International Journal of Innovative Technology and Exploring Engineering (IJITEE), ISSN: 2278-3075, Volume-9 Issue-8, PP:936-943, DOI: 10.35940/ijitee.H6704.069820, June 2020.

23. Ms.B.Deepa, Asst.Prof., ECE publishes a paper titled **“Near Field UHF RFID Antenna using Dual-Log Periodic Array”** in an International Journal on Emerging Technologies (ISSN NO. (Print): 0975-8364, (Online): 2249-3255, Vol:11,Issue:4, PP:123-129, June 2020.

#### FACULTY & STUDENT JOINT PAPER PUBLICATIONS

1. Dr.V.Rajyalakshmi, HOD, ECE, D Samyuktha, G Santosh Kumar, P Sai Kausthub and P Likitha IV/IV ECE has published a paper titled **“Eye ball movement based wheel chair using Raspberrypi”** in Journal of Emerging technologies and Innovative research, Volume 7, Issue 4, ISSN 2349-5162, April 2020.
2. Dr.B.Soma Sekhar, Asso., Prof., G Rohita, A Tarun Kumar, B Bhaskar, B Prudhvi of IV/IV ECE has published a paper titled **“A unified approach of augmenting the life time of cooperative wireless sensor networks”** in TEST Engineering & Management magazine ISSN:0193-4120 page No 3672-3680, March-April 2020
3. Mr.B.Jena, Asst.Prof., ECE, Ms.D.Sowmya Krishna and Mr.Ch.Mahesh IV/IV ECE-A has published a paper titled **“A Trained CNN Based Resolution Enhancement of Digital Images”** in International Journal for Modern Trends in Science and Technology, Volume: 05, Issue No: 07, Pages : 9-16, ISSN: 2455-3778, July 2019.
4. Mr.J.Bhaskara Rao Asst.Prof., Ms.A.Navya, Mr.D.Sai Kishore, Ms.J.Poojitha and Mr.G.Komal Kumar IV/IV ECE-A Dept.of ECE have published a paper titled **“Implementation of Smart Attendance Using Image Processing Techniques”** in an international Journal of IUP journal of Electrical and Electronics Engineering, Vol XII, No.4, October 2019.
5. Dr A Lakshmi Narayana, Asst.Prof., ECE, G Lalitha, BS L Akhil, AVS Mouli, M Ramalingiah of IV/IV ECE have published a paper titled **“Improvement of FBMC over OFDM system in terms of PSD and BER”** in TEST Engineering & Management magazine ISSN: 0193-4120 Page No. 8434 – 8439, May – June 2020.
6. Dr A Lakshmi Narayana, Asst.Prof., ECE, Y Sravya, B B Jagadeesh, M Manasa, J Ashok kumar **“Comparative analysis of UFMC and OFDM for 5G communications”** in International Journal of analytical and experimental modal analysis , Volume 12, Issue 5, ISSN: 0886-9367, May 2020.
7. Mr.G.V.Raviteja, Asst.Prof., ECE, Mr.T.Sarat, Mr.M.Vinetthra Naidu, Mr.S.Bala Vikas and Mr.M.Sudheer IV/IV ECE-B has published a paper titled **“A CPW - Fed Microstrip Monopole Antenna Employing Inverted Quad L Shaped Stubs with Symmetrical Slotted Rectangular Ring Ground Planes for GPS/PCS/UMTS and UWB Applications”** in an International Journal EJERS, European Journal of Engineering Research and Science, Vol. 5, No. 3, Pages : 301-303, March 2020, DOI: <http://dx.doi.org/10.24018/ejers.2020.5.3.1825>.
8. Mr.G.V.Raviteja, Asst.Prof., ECE, Mr.B.T.V.Madhan, Ms.M. Kshetra Sree, Mr.N. Avinash, and Mr.P.R.S. Naga Surya IV/IV ECE-B has published a paper titled **“Gain and Bandwidth Considerations for Microstrip Patch Antenna Employing U and Quad L shaped Slots with DGS and Parasitic Elements for WiMax / WiFi Applications”** in an International Journal EJERS, European Journal of Engineering Research and Science, Vol. 5, No. 3, Pages : 327-330, March 2020, DOI: <http://dx.doi.org/10.24018/ejers.2020.5.3.1834>.
9. Ms.PSM.Veena, Asst.Prof., Mr.S.Navven Kumar, Ms.G.Vasanthi, Ms.P.Tirumala, Mr.B.Leela Madhav IV/IV ECE has published a paper titled **“Implementation of 8-Bit RISC Processor”** in an International Journal of Information and Computational Science , Volume 10, Issue 4, PP:502-509, ISSN: 1548-7741, April 2020.
10. Mr.D.Anil Prasad, Asst.Prof., Mr.K.Sai Kalyan and Mr.L.Vamsi Krishna IV/IV ECE has published a paper titled **“Study Of Filter Performance In Removal Of Noise From Digital Images”** in an international journal of Mukta Shabd, Volume IX, Issue IV, ISSN NO : 2347-3150, PP: 2915-2927, April 2020.
11. Dr.S.Srinivas, Assoc.Prof., Dr.J.Bhaskara Rao, Asst.Prof., Ms.R.Roopa Devi, Ms.K.Y.Sujitha, Ms.Y.Gayatri and Mr.M..Naveen IV/IV ECE has published a paper titled **“Glucose Monitoring System Using NODE MCU”** in an international journal of Mukta Shabd, Volume IX, Issue IV, ISSN NO : 2347-3150, PP: 2933-2942, April 2020.
12. Dr.S.Srinivas, Assoc.Prof., R.Saimani, MVS Nikhila, G Yaswanth, M Sai Kiran, D V S N Krishna of IV/IV ECE has published a paper titled **“Implementation of CORDIC based k means clustering using MATLAB”** in Journal of Alochana chakra, Volume 9, Issue 4, ISSN: 2231-3990, May 2020.
13. Dr.S.Srinivas, Assoc.Prof., G harikrishna, N Tejaswini, S Supriya, U V Sateesh varma of IV/IV ECE has published a paper titled **“Continuous glucose processing and alerting system”** in Journal of Juni Khyat , ISSN 2278-4632 Volume 10 Issue 5 v May 2020.

14. Ms.G.Gayatri, Asst.Prof., Ms.S.Sowjanya, Mr.Sk.Yaseen, Ms.V.Meghana and Mr.T.Pavan IV/IV ECE has published a paper titled **“Tracking of Dementia patients using GPS & LORA WiFi”** in an international journal of Information and Computational Sciences, Volume 10, Issue 4, ISSN NO : 1548-7741, PP:, April 2020.
15. Ms.Ch.Padmasree Asst.Prof., Ms.N.Greeshma, Ms.N.Neeharika, Ms.Ch.Aparanjitha and Mr.Sarat Kumar IV/IV ECE-A has published a paper titled **“Extraction Of Attributes From Indian Currency To Detect Counterfeit Notes Through Digital Image Processing”** in an International journal of analytical and experimental modal analysis, Volume:XII, Issue:V, PP:41-45, ISSN NO:0886-9367, May 2020.
16. Ms.Ch.Padmasree Asst.Prof., Mr.K.Sai Naveen, Mr.J.S.Sampreeth, Mr.D.Pavan and Mr.VS.Ashlesh Kumar IV/IV ECE-B has published a paper titled **“REAL TIME OBJECT DETECTION WITH DEEP LEARNING”** in an International journal of analytical and experimental modal analysis, Volume:XII, Issue:V, PP:1-7, ISSN NO:0886-9367, May 2020.
17. Mr.A.Siva Kumar, Asst.Prof., Mr.B.Jena, Asst.Prof., Mr.P.Harsha Vardhan, Mr.I.Hadasa Preethi, Mr.B.Sravan Kumar, Ms.B.Sangeetha IV/IV ECE-B has published a paper titled **“Implementation of Bicubical Interpolation for Detection of Alzheimer’s Disease”** in an International journal of Alochana Chakra, Volume:IX, Issue:V, PP:345-349, ISSN NO: 2231-3990, May 2020.
18. Mr.A.Siva Kumar, Asst.Prof., Ms.B.Deva Harshitha, Mr.D.V.Guru Saran, Mr.Y.Raviteja and Mr.E.Manohar IV/IV ECE has published a paper titled **“Detection of Leg Fracture in X-Ray Images using Image Processing”** in an International journal of Alochana Chakra, Volume:IX, Issue:V, PP:338-344, ISSN NO: 2231-3990, May 2020.
19. Mr.D.Anil Prasad, Asst.Prof., Mr.K.Nikhil and Mr.K.Sri Vihar Reddy IV/IV ECE has published a paper titled **“Realization of Single Precision Floating Point Multiplier Using Vedic Algorithm”** in an International journal of Alochana Chakra, Volume:IX, Issue:V, PP:338-344, ISSN NO: 326-337, May 2020.
20. Ms.M.Nirmala, Asst.Prof., Ms.K.Ratnavathi, Mr.S.Riyaz Basha, Mr.V Sai sandeep and Mr.B.Suresh IV/IV ECE has published a paper titled **“Ultra Wide Band Antenna with Band Rejection Configurability for Wireless Applications”** in an International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET), Volume 9, Issue 4, e-ISSN: 2319-8753, p-ISSN: 2320-6710, PP:2339-2343, April 2020.
21. Dr.J.Bhaskara Rao, Asst.Prof., Dr.S.Srinivas, Assoc.Prof., Mr.E. Kesava Rao, Mr.Ch Sai Kishore, Ms.P. Sandhya, and Mr.G. Pavan Kumar IV/IV ECE have published a paper titled **“Image Processing Techniques for Extraction of Serial Numbers on Currency Notes While Depositing in Cash Deposit Machine Using Python and Raspberry Pi”** Test Engineering and Management, Volume 83, ISSN: 0193-4120 Page No. 2396 – 2403, May – June 2020.
22. Ms.B.Deepa, Asst.Prof., Mr.I.Arvind Sastri, Ms.N. Gayatri Samyuktha, Mr.M.Satish Raj and Ms.Y.Samyuktha Mary IV/IV ECE has published a paper titled **“Frequency Reconfigurable antenna using DGS”** in an International journal of analytical and experimental modal analysis, Volume: XII, Issue: V, PP:218-225, ISSN NO:0886-9367, May 2020.
23. Ms.B.Deepa, Asst.Prof., Mr.B.Nikhil Krishna, Mr.G.J.Prakash, Ms.B.Amrutha and Ms.A.Lavanya IV/IV ECE has published a paper titled **“Frequency Reconfigurable antenna”** in an International journal of analytical and experimental modal analysis, Volume: XII, Issue: V, PP:593-597, ISSN NO:0886-9367, May 2020.
24. Ms.K.Yashoda, Asst.Prof., Ms.E.Mounika, Ms.G.Sahitya, Mr.K.Eswar Venkat and Mr.K.Venkatesh IV/IV ECE has published a paper titled **“Identification of Brain Tumor and Classifying into High grade and low grade Glioma”** in an International Journal of Science & Engineering Development Research, Volume 5 Issue 5, ISSN NO:2455-2631, May-2020.
25. Ms.M.Nirmala, Asst.Prof., Mr.Thanakala Madanmohan, Ms.Vennala Keerthi, Mr.Sambangi Prathap and Mr.Mycharla Bhanuchandra IV/IV ECE has published a paper titled **“Vehicle Detection for Toll Collection Using Raspberry Pi 3”** in an International Journal of Information and Computational Science, Volume:10, Issue:5, PP: 243-251, ISSN: 1548-7741, May 2020.
26. Mr.B.Jena, Asst.Prof., Ms.Ch.Mounika, Mr.V.Pradeep, Mr.V.revanth and Mr.B.Lokesh IV/IV ECE has published a paper titled **“Artificial Neural Networks based Human Expression recognition using HAAR Cascade Classifier and DCT features”** in an International journal of analytical and experimental modal analysis, Volume: XII, Issue: V, PP:505-510, ISSN NO:0886-9367, May 2020.
27. Mr. B.Chandra Mouli, Asst.Prof., Ms.M Vasavi, Mr.P Avinash, Mr.K Raja and Mr.Y Sai Mahidhar IV/IV ECE has published a paper titled **“FACE AND GESTURE RECOGNITION USING “VIOLA AND JONES” METHOD FOR HOME SECURITY SYSTEM”** in an International Journal of Research and Analytical Reviews (IJRAR, Volume 7, Issue 2, PP: 259-261, May 2020.
28. Mr.B.Chandra Mouli, Asst.Prof., Mr.R.Chandra Sekhar, Asst.Prof., Mr.R.Siva Kumar, Mr.U.Hima

- Kiran, Mr.B.Ganesh and Mr.V.rama Rao IV/IV ECE has published a paper titled **“Wi-Fi based Attendance System”** in an international Journal for Research in Applied Science & Engineering Technology (IJRASET), Volume 8, Issue V, PP:510-512, ISSN: 2321-9653, May 2020.
29. Dr.G.Manmdha Rao, Assoc.Prof., Ms.A.Keerthi, Mr.A.Sai Krishna, Ms.Afreen Firdaus and Mr.Ch.Lokesh IV/IV ECE has published a paper titled **“Rfid Based Smart Trolley for Automatic Billing System”** in an International Journal of Recent Technology and Engineering (IJRTE), Volume-9 Issue-1, ISSN: 2277-3878, DOI: 10.35940/ijeat.A2401.069520, pp:1593-1597, May 2020.
  30. Dr.G.Manmdha Rao, Assoc.Prof., Ms.P.Sonia, Ms.Ch.Sirisha, Ms.M.Vandana, Mr.M.V.S.Teja and Mr.P. Durga Srinivas IV/IV ECE has published a paper titled **“IOT based Home Automation using Raspberry pi”** in an International Journal of Innovative Technology and Exploring Engineering (IJITEE), Volume-9 Issue-7, ISSN: 2278-3075, DOI: 10.35940/ijitee.G5645.059720, PP: 695-698, May 2020.
  31. Dr.B.Soma Sekhar, Asso., Prof., Mr.Ch.Sai Kishore, Mr.D.Tarun Ram Sai, Ms.Ch.Asha, Ms.S.Manasa and Ms.C.Nalanda IV/IV ECE has published a paper titled **“Inter Carrier Interference Mitigation in Space Frequency Block”** in an international Journal of Advanced Science and Technology, Vol. 29, No. 9s, pp. 3305-3314, ISSN:2005-4238, May 2020.
  32. Dr.S.Srinivas, Assoc.,Prof., ECE, Mr.R.Jayendra, Ms.M.Mounika and Mr.M.Siva IV/IV ECE has published a paper titled **“Implementation of low power cardiac based complex square root ”** in an International journal of Alochana Chakra, Volume:IX, Issue:V, PP:345-349, ISSN NO: 2111-2115, May 2020.
  33. Dr.S.Srinivas, Assoc.,Prof., ECE, Ms.R.Sai Mani, Ms.MVS.Nikhila, Ms.G.Yeshwanth, Ms.M.Sai Kiran and Mr.DVSN.Krishna IV/IV ECE has published a paper titled **“Implementation of cardiac based K-means clustering using MATLAB ”** in an International journal of Alochana Chakra, Volume:IX, Issue:V, PP:345-349, ISSN NO: 2106-2110, May 2020.
  34. Dr.S.Srinivas, Assoc.,Prof., ECE, Mr.J.Bhaskara Rao, Asst.Prof., ECE, Ms.A.Sai Bhargavi, Mr.D.Kasivishwanadham, Mr.KP.Sai Ganesh and Ms.B.sowmya IV/IV ECE has published a paper titled **“Intelligent Crop monitoring and alerting Systems:Monitoring Drone”** in an International journal of Alochana Chakra, Volume:IX, Issue:V, PP:345-349, ISSN NO: 2116-2121, May 2020.
  35. Ms.D.Nagamani, Asst.Prof., ECE, Mr.A.Dinesh Kumar, Mr.Sidhdhardh Pradhan, Mr.Y.Abhishek, Mr.DDNS.Abheedheer and Mr.Abdhul rehman IV/IV ECE has published a paper titled **“SAR IMAGE ENHANCEMENT USING WAVELET AND CURVELET TRANSFORM”** in an international Journal of Research and Analytical Reviews (IJRAR), Volume 7, Issue 2, PP: 255-258, May 2020.
  36. Ms.D.Nagamani, Asst.Prof., ECE, Ms.PSM.Veena, Asst.Prof., ECE, Mr.Sidhdhardh Pradhan, Ms.M.Jyothsna and Ms.K.Sai Swapnika IV/IV ECE has published a paper titled **“Medical image fusion scheme Using Wavelet along with Curvelet Transform”** In an International Journal TEST, ENGINEERING & MANAGEMENT , Vol:83, ISSN: 0193-4120, PP: 22456 - 22463, April 2020.
  37. Mr.Vijay Kumar Sahu, Asst.Prof., ECE, Ms.G.Madhavi, Mr.D.Yogesh Reddy, Mr.P.Praveen Varma and Mr.P.Madhu Kiran IV/IV ECE has published a paper titled **“Design of Circular patch antenna with tapered feed for UWB Applications”** in an International journal of analytical and experimental modal analysis, Volume XII, Issue V, PP:683-689, ISSN NO:0886-9367, May 2020.
  38. Ms.V.Shireesha, Asst.Prof., ECE, Mr.V.Pavan Kalyan, Mr.K.J.Manoj Kumar, Ms.K.Radhika and Mr.V.Raghav IV/IV ECE has published a paper titled **“DWT-SVD based Digital Video Watermarking”** in an International journal of analytical and experimental modal analysis, Volume XII, Issue V, PP:484-492, ISSN NO:0886-9367, May 2020.
  39. Mr.VVK.Raju, Asst.Prof., ECE, Mr.S.Sagar, Ms.B.Divya, Ms.K.Madhulika and Mr.D.Sandeep IV/IV ECE has published a paper titled **“RETINAL IMAGE ANALYSIS FOR DIABETIC RETINOPATHY”** in an International journal of analytical and experimental modal analysis, Volume XII, Issue V, PP:449-454, ISSN NO:0886-9367, May 2020.
  40. Mr.VVK.Raju, Asst.Prof., ECE, Ms.G.Gayatri, Asst.Prof., ECE, Mr.JSV.Sai Kiran, Mr.S.Sai Srinivas, Mr.V.Mohan Sai Vamsi and Ms.M.Asha Jyothi IV/IV ECE has published a paper titled **“FACIAL EMOTION RECOGNITION WITH DEEP LEARNING”** in an International journal of analytical and experimental modal analysis, Volume XII, Issue V, PP:129-134, ISSN NO:0886-9367, May 2020.
  41. Ms.P.Chaya Devi, Asst.Prof., Ms.J.Swathi, Mr.D.Chandra Mouli, Mr.L.Saiteja and Ms.M.Kiranmayi IV/IV ECE has published a paper titled **“Dual Frequency Reconfigurable Antenna Using DGS”** in an international Alochana Chakra Journal, Volume IX, Issue V, PP:2943-2948, ISSN NO:2231-3990, May 2020.

42. Ms.P.Chaya Devi, Asst.Prof., Ms.K.Gowri, Mr.N.Vamsi Ramakrishna, Mr.K.Haranadha Rao and Mr.P.Kishore IV/IV ECE has published a paper titled **“Data Processing Unit For Detection Of Paddy Diseases”** in an international Alochana Chakra Journal, Volume IX, Issue IV, PP:4793-4799, ISSN NO:2231-3990, April 2020.
43. Ms.K.Yashoda, Asst.Prof., ECE, Ms.E.Mounika, Ms.G.Sahitya, Mr.K.Eswar Venkat and Mr.K.Venkatesh IV/IV ECE has published a paper titled **“Identification Of Brain Tumor And Classifying Into High Grade And Low Grade Glioma”** in an International Journal of Science & Engineering Development Research (www.ijdsr.org), ISSN:2455-2631, Vol.5, Issue 5, page no.214 - 217, May-2020.
44. Mr.P. Devi Pradeep, Asst.Prof., ECE, Mr.P.Akhil, Ms.Ch. Shalini, Mr.G.S.P.M.Manohar Rao and Mr.Ch.Viswa Yadeeya IV/IV ECE has published a paper titled **“Insertion and Detection of Hardware Trojans using Side Channel Analysis”** in an international Alochana Chakra Journal, Volume IX, Issue IV, PP:4783-4792, ISSN NO:2231-3990, April 2020.
45. Ms.P.Devi, Asst.Prof., ECE, Ms.N.Sai Harshitha, Mr.B.Dharma Praneeth, Mr.S.Vinay Kumar and Mr.P. Sudheer Kumar IV/IV ECE has published a paper titled **“A Square Patch with L and Inverted L shaped slotted AMC structure for Wi-Fi Applications”** in an International Journal of Recent Technology and Engineering (IJRTE), Volume-9 Issue-1, PP:1722-1725, DOI:10.35940/ijrte.A2583.059120, May 2020.
46. Mr.R.Chandrasekhar, Asst.Prof., ECE Ms.G.Monika, Ms.V.S.Preeti, Ms.K.Sindhuja and Mr.S.Pavan Srinivas Reddy IV/IV ECE has published a paper titled **“BER Analysis of NR-LDPC Decoding Algorithms for Next Generation Wireless Communications”** in an International Journal of Critical Reviews, VOL 7, ISSUE 05, ISSN- 2394-5125, May 2020.
47. Dr.V.Rajyalakshmi, HOD, Mr.B.Chandra Mouli, Asst.Prof., Mr.Ch.Sai Kishore, Ms.A.Prathyusha and Mr.P.Sai Surya Srinivas IV/IV ECE has published a paper titled **“Over Speed and Alcohol Detection SMS Alert System”** in an international Journal TEST ENGINEERING & MANAGEMENT, Vol:83, PP:2329-2335, ISSN: 0193-4120, May-June 2020.
48. Mr.N. Ramkumar, Asst.Prof., Mr.K.S.V.Madhav, Mr.K. Karthik, Ms.S. Ruby and Mr.D. Mahesh IV/IV ECE has published a paper titled **“TCAD SIMULATION OF ALGAN/INLGAN/GAN HEMTS”** in an International Research Journal of Modernization in Engineering Technology and

Science, Volume:02, Issue:06, e-ISSN: 2582-5208, PP:1326-1332, June -2020.

#### STUDENT'S SPECIAL ACHIVMENTS

1. **Patent filed** on July 13, 2020 for the invention titled **“Method and System for Avoidance of Accidents”** by Dr.V.Rajyalakshmi, HOD, Mr.B.Chandra Mouli, Asst. Porof. & Ch. Sai Kishore Student.
2. Mr. P.S.Teja III/IV ECE has contributed services as a **Campus Ambassador** in three day national student tech fest STEPCONE 2020 organized by Department of ECE, at GMRIT, Rajam during Jan 31st -2nd February 2020.
3. Mr. Anirudh of IV/IV ECE-B appointed as **lieutenant commander** in INDIAN NAVY.
4. Mr.P.S.Teja III/IV ECE has achieved CEFR level B2 upper intermediate in test of English proficiency conducted by British council in 2019.
5. Mr.Harsha and Mr.P.Sai Kishore IV/IV ECE have developed a project titled **“Vehicle Supervision System”** and is selected for Institutions Innovation Council, MHRD's Innovation Cell held at Hyderabad on December 2019.
6. Mr.Srinivas IV/IV ECE got 3rd Prize in Sunrise Indian Innovative Student Hackathon 2019 on September 2019.

#### NPTEL ONLINE CERTIFICATION COURSES BY STUDENT'S

1. Mr.S.S.Raviteja III/IV ECE has successfully completed NPTEL online certificate course in **Programming in java** with Elite + Silver 81% during (12 weeks Course) Jul-Oct 2019.
2. Mr.G.Chaitanya Prasad III/IV ECE-A has completed and got Elite + Silver in NPTEL online Certification course in Programming, Data Structures and Algorithms using Python with a consolidated score of 86% from IIT Madras in the duration July-September 2019 (8 weeks).
3. Mr.Ch.S.V.Sai III/IV ECE has successfully completed NPTEL online certificate course in **Programming, Data Structures & AlgorithmMs using python** with Elite + Silver 72% during (8 weeks Course) Jul-Sept 2019.
4. Ms.M.Ashasumitra III/IV ECE has successfully completed NPTEL online certificate course in **Developing soft skills & personality** with Elite 66% during ( 8 weeks Course) Aug-Oct 2019.
5. Ms.K.Sneha III/IV ECE has successfully completed NPTEL online certificate course in **Python for Data Science** with 49% during (4 weeks Course) Aug-Sept 2019.
6. Ms.G.S.N.Hari priya III/IV ECE has successfully completed NPTEL online certificate course in **Programming, Data Structures & AlgorithmMs**

- using python** with 51% during (8 weeks Course) Jul-Sept 2019.
7. Mr.P.S.Teja III/IV ECE has successfully completed NPTEL online certificate course in **Interpersonal skills** with Elite 74% during (8 weeks Course) Jul-Sept 2019.
  8. Mr.K.Kausal III/IV ECE has successfully completed NPTEL online certificate course in **Interpersonal skills** with Elite 71% during (8 weeks Course) Jul-Sept 2019.
  9. Mr.Y.VVS Avinash kumar III/IV ECE has successfully completed NPTEL online certificate course in **Programming, Data Structures & Algorithms using python** with Elite 61% during (8 weeks Course) Jul-Sept 2019.
  10. Ms.M.Himaja III/IV ECE has successfully completed NPTEL online certificate course in **Python for Data Science** with 53% during (4 weeks Course) Aug-Sept 2019.
  11. Ms.G.Anusha III/IV ECE has successfully completed NPTEL online certificate course in **Python for Data Science** with 57% during (4 weeks Course) Aug-Sept 2019.
  12. Mr.K.Ravichandra III/IV ECE-A has completed NPTEL online Certification course in Programming, Data Structures and Algorithms using Python with a consolidated score of 70% from IIT Madras in the duration July-September 2019 (8 weeks).
  13. Mr.B.Sai Akhilesh III/IV ECE-C has completed NPTEL online Certification course in Control Systems with a consolidated score of 63% from IIT Madras in the duration July-October 2019 (12 weeks).
  14. Mr.K.Surya Pavan III/IV ECE-C has completed NPTEL online Certification course in Ecology and Environment with a consolidated score of 70% from IIT Madras in the duration August-October 2019 (8 weeks).
  15. Mr.B.SVV. Sai Pradeep III/IV ECE-C has completed NPTEL online Certification course in Control Systems with a consolidated score of 63% from IIT Madras in the duration July-October 2019 (12 weeks).
  16. Mr.B.Kasi Vinay III/IV ECE-C has completed NPTEL online Certification course in Digital Circuits with a consolidated score of 60% from IIT Khargpur in the duration July-October 2019 (12 weeks).
  17. Mr.K.Abhiram III/IV ECE-C has completed NPTEL online Certification course in Digital Circuits with a consolidated score of 60% from IIT Khargpur in the duration July-October 2019 (12 weeks).
  18. Mr.R.Abhishek III/IV ECE-C has completed NPTEL online Certification course in Digital Circuits with a consolidated score of 66% from IIT Khargpur in the duration July-October 2019 (12 weeks).
  19. Mr.P.Prudhvi Raj III/IV ECE-C has completed NPTEL online Certification course in Digital Circuits with a consolidated score of 75% from IIT Khargpur in the duration July-October 2019 (12 weeks).
  20. Mr.VVS Sumanth III/IV ECE completed one month course titled “.Net (Fast Track) in Datapro, Viskahapatnam during 1<sup>st</sup> May 2019 – 2<sup>nd</sup> June 2019.
  21. Mr.M.S.Pavan Kumar III/IV ECE-A has completed NPTEL online Certification course in Digital Circuits with a consolidated score of 58% from IIT Khargpur in the duration July-October 2019 (12 weeks).
  22. Mr.J.Sai Praveen III/IV ECE-A has completed NPTEL online Certification course in Digital Circuits with a consolidated score of 53% from IIT Khargpur in the duration July-October 2019 (12 weeks).
  23. Mr.M.J.N.Sandeep III/IV ECE-A has completed NPTEL online Certification course in Digital Circuits with a consolidated score of 67% from IIT Khargpur in the duration July-October 2019 (12 weeks).
  24. Ms.M.Ashasumitra III/IV ECE has completed NPTEL online certificate course in Developing soft skills & personality with a consolidated score of 66% during (8 weeks Course) Aug-Oct 2019.
  25. Ms.K.Sneha III/IV ECE has completed NPTEL online certificate course in Python for Data Science with a consolidated score of 49% during (4 weeks Course) Aug-Sept 2019.
  26. Ms.G.S.N.Hari priya III/IV ECE has completed NPTEL online certificate course in Programming, Data Structures & Algorithms using python with a consolidated score of 51% during (8 weeks Course) Jul-Sept 2019.
  27. Mr.P.S.Teja III/IV ECE has completed NPTEL online certificate course in Interpersonal skills with a consolidated score of 74% during (8 weeks Course) Jul-Sept 2019.
  28. Mr.S.S.Raviteja III/IV ECE has completed NPTEL online certificate course in Programming in java with a consolidated score of 81% during (12 weeks Course) Jul-Oct 2019.
  29. Mr.K.Kausal III/IV ECE has completed NPTEL online certificate course in Interpersonal skills with a consolidated score of 71% during (8 weeks Course) Jul-Sept 2019.
  30. Mr.Ch.S.V.Sai III/IV ECE has completed NPTEL online certificate course in Programming, Data Structures & Algorithms using python with a consolidated score of 72% during (8 weeks Course) Jul-Sept 2019.
  31. Mr.Y.VVS Avinash kumar III/IV ECE has completed NPTEL online certificate course in Programming, Data Structures & Algorithms using python with a consolidated score of 61% during (8 weeks Course) Jul-Sept 2019.
  32. Ms.M.Himaja III/IV ECE has completed NPTEL online certificate course in Python for Data Science

with a consolidated score of 53% during (4 weeks Course) Aug-Sept 2019.

33. Ms.G.Anusha III/IV ECE has completed NPTEL online certificate course in Python for Data Science with a consolidated score of 57% during (4 weeks Course) Aug-Sept 2019.

#### STUDENT PARTICIPATION IN HARDWARE MODEL'S / CONTEST'S

- 1.Mr.Ch.Sai Kishore IV/IV ECE presented a project titled **“Over Speed Alcohol Detection SMS Alert System”** in the project expo of Vizag bay sub section student congress 2020 organized by IEEE Vizag Bay Sub Section in association with IEEE Hyderabad Section on 25<sup>th</sup> January 2020.
- 2.Mr.K.Abhiram, Mr. P.S.Teja, Mr. YVVS. Avinash Kumar III/IV ECE have participated in spotlight event titled **“ROBOSOCCEC”** three day national student tech fest STEPONE 2020 organized by Department of ECE, at GMRIT, Rajam during Jan 31st -2rd February 2020.
- 3.Mr.K.Abhiram III/IV ECE have participated in project Design Contest event titled **“Smart Attendance System”** three day national student tech fest STEPONE 2020 organized by Department of ECE, at GMRIT, Rajam during Jan 31st -2rd February 2020.
- 4.Ms. P. Sai Durga Charishma,Ms. G.Hemanajali III/IV ECE have participated in project Design Contest event titled **“Smart Home Auto Machine & Security Using Aurdino With PIR & Camera ”** three day national student tech fest STEPONE 2020 organized by Department of ECE, at GMRIT, Rajam during Jan 31st -2rd February 2020.
- 5.Ms. D. Niharika,Ms. K.Sowmya Sree, Ms.T.Ramya, Ms.D.Madhuri III/IV ECE have participated in project Design Contest event titled **“Alcohol Detector using Arduino ”** three day national student tech fest STEPONE 2020 organized by Department of ECE, at GMRIT, Rajam during Jan 31st -2rd February 2020.
- 6.Mr.K.Siva rama Praveen, III/IV ECE have participated in project Design Contest event titled **“Security & Surveillance using AI & ML ”** three day national student tech fest STEPONE 2020 organized by Department of ECE, at GMRIT, Rajam during Jan 31st -2rd February 2020.
- 7.Mr. YVVS. Avinash Kumar III/IV ECE have participated in Technical event titled **“ Debugging Contest”** three day national student tech fest STEPONE 2020 organized by Department of ECE, at GMRIT, Rajam during Jan 31st -2rd February 2020.
- 8.Ms.M.Hemaja, Ms.K.Sneha, Ms.V.Barathi, Mr.S.Tanishq, Ms.Sameera, Ms.M.Naga pujitha,

Mr.P.S.Teja, Ms.Abothu Pasyanthi Padma Malini, Mr.B.Panthro, Mr.Dheeraj, Ms.B.Gouthami, Ms.P.Manjusha, Ms.M. Anusha III/IV ECE & Ms.G.Jyothsna ,Ms.S.Srivalli II/IV ECE has qualified in the primary round of Master Orator Championship organized by Department of ECE, at ANITS, conducted on Aug 3rd 2019.

- 9.Mr.D.Kalyan II/IV ECE have participated in a national level techno, cultural, literary & sports fest event titled **“Circuit Debugging”** two day national student tech fest **BECTAGON 2020** organized by Department of ECE, at Bapatla Eng college, Chirala during 14<sup>th</sup> & 15<sup>th</sup> February 2020.

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

- 1.Ms.M.Hemaja, Ms.Laxmi Priya, Mr.A. Dinesh, Mr.Ch. R.Venkata Sai, Mr.K.Kuasal, Mr.SS.Ravitate, Ms.Abothu Pasyanthi Padma Malini, Ms.M.Naga Pijitha, Mr. Sadanala Tanishq Venkata Satya , Mr.K.Sneka, Mr.K.Sahithi, Mr.M. Ashasumitra, Ms.P.Swarfna latha, III/IV ECE & Mr.P.Y.Sriram, Mr.V.P.S.Srinivas, Mr.S.Sai Venkatesh, Mr.P.Hemanth Kumar, Mr.N.Sai Srinivas,Mr.M.Vikram, Mr.K.Rohit, Mr.D.D.Sai Prasanth, Mr.Ch.Rohit,Mr.B.Vinay kumar, Mr. A.Anil kumar II/IV ECE have attended in workshop titled **“Embedded systeMs using Raspberry Pi”** in the event Pravega'20 organized by IISc Bangalore during 1st & 2nd Feb 2020.
- 2.Mr.J.Sai Praveen and Mr.M.J.N.Sandeep III/IV ECE-A has participated in three day workshop on **“Ultrasonic testing workshop”** in the event Techfest organized by IIT Bombay during 3<sup>rd</sup> -5<sup>th</sup> January 2020.
- 3.Mr.M.Pranav, Mr. B Sai Akhilesh, Mr.M.S.S.Ganesh karthikeya, Mr. S.Sai Pradeep, Mr. K.Yashwanth Surya, Mr.A.S.S.Praveen, Mr.B.Nikhil, Mr.G.Rakesh, Mr.KVS Harish kumar, Mr. L.Sumanth,Mr. M.S.S.G.Karthikeya, Mr.Taj nawaz, Mr.N.Santosh kumar, Mr. Achyuth varma, Mr.P.Pramod, Mr.S.VV.Sai Pradeep, Mr.V.Rohit, Mr.Puneeth, Mr.K.Yaswanth III/IV ECE have attended a workshop on **“WiFi & Computer Networking”** in Shaastra 2020 organized by IIT Madras during 3th – 10th Jan 2020 .
- 4.Mr.P.Sai Kiran, Mr. P.V.S.Teja III/IV ECE have attended a workshop on **“Machine learning with Artificial Intelligence”** in Tech Byte organized by IIT Hyd during 28th & 29th Sept 2019.
- 5.Ms. K.Pavani III/IV ECE, **Mr.NSS.Charan, Mr.A.Hari Siva Ganesh, Mr.B.Lokesh, Mr.B.sai Siva Harsha, Mr.C.Mani Vivek Sri Harsha, Mr.D.Durga Sandeep, Mr.R.N.S.Nikhil, Mr.Somasekhar, Mr.Tirupati, Ms.J.Saray** **Mr.Raghava II/IV ECE-A and Mr. K.Pavani III/IV**

ECE has attended a workshop on “**Ethical Hacking with Cyber Security**” in Tech Byte organized by IIT Hyd during 28th & 29th Sept 2019.

6. Mr. Y. Pavan Kumar, Ms. D. Satya Sushma, Ms. V. Sravani, Ms. D. Vaishnavi, Ms. B. Pravallika, Mr. Shaik Shahid, Ms. B. Goutami, Mr. VVS. Saikiran, Ms. P. Vathsalya, Ms. Jayachitra, Ms. M. Deepika III/IV ECE & Ms. S. Sreevalli II/IV ECE have attended a workshop on “**Humanoid Robotics with IOT**” in Tech Byte organized by IIT Hyd during 28th & 29th Sept 2019.

7. Mr. K. Pavan, Mr. M. Jayaprakash III/IV ECE have participated in Artificial Intelligence workshop conducted by Techfest IIT Bombay during 3<sup>rd</sup> – 5<sup>th</sup> Jan 2020.

8. Ms. Ch. Satyavenkata Sai, Mr. G. B. Harish III/IV has attended a 2 day workshop titled “**Python programming**” Codemania at Vignan’s Institute of Information Technology, Vishakhapatnam.

### CLUB ACTIVITIES ECO GANESHA EVENT



As part of Induction Programme, Green club of department of ECE had organized an event on the eve of Ganesh chaturthi in association with “**Green Climate Organization**” on 27<sup>th</sup> August 2019. In this event they trained the students to make eco-friendly ganesha idols with the clay. Students and faculty were participated in this event.

### PLANTATION



Plantation in the campus is done by Ms. A. Deepika from Swatch Bharat Organisation along with Dr. V.

Rajya Lakshmi, HOD, ECE and other faculty members on 23/09/2019.

### WASTE MANAGEMENT



Lecture on Waste management is delivered by Ms. Pavani, Dept. of Smart City, GVMC on 23/09/2019. In her lecture she clearly explained how to prepare manure from Kitchen waste.

### SPORTS CLUB ACTIVITIES



### TREKKING EVENT

Department of ECE organized a trekking event in collaboration with “**Vizag Trekking Association**” on 24<sup>th</sup> November 2019. Trekking route started from Madhavadhara to Simhachalam Hill (12 Kilometers). 115 Students of ECE, Faculty and Head of the Department Prof. V. Rajya Lakshmi were participated in the event.



Mr. Sai kishore student of IV/IV ECE-A

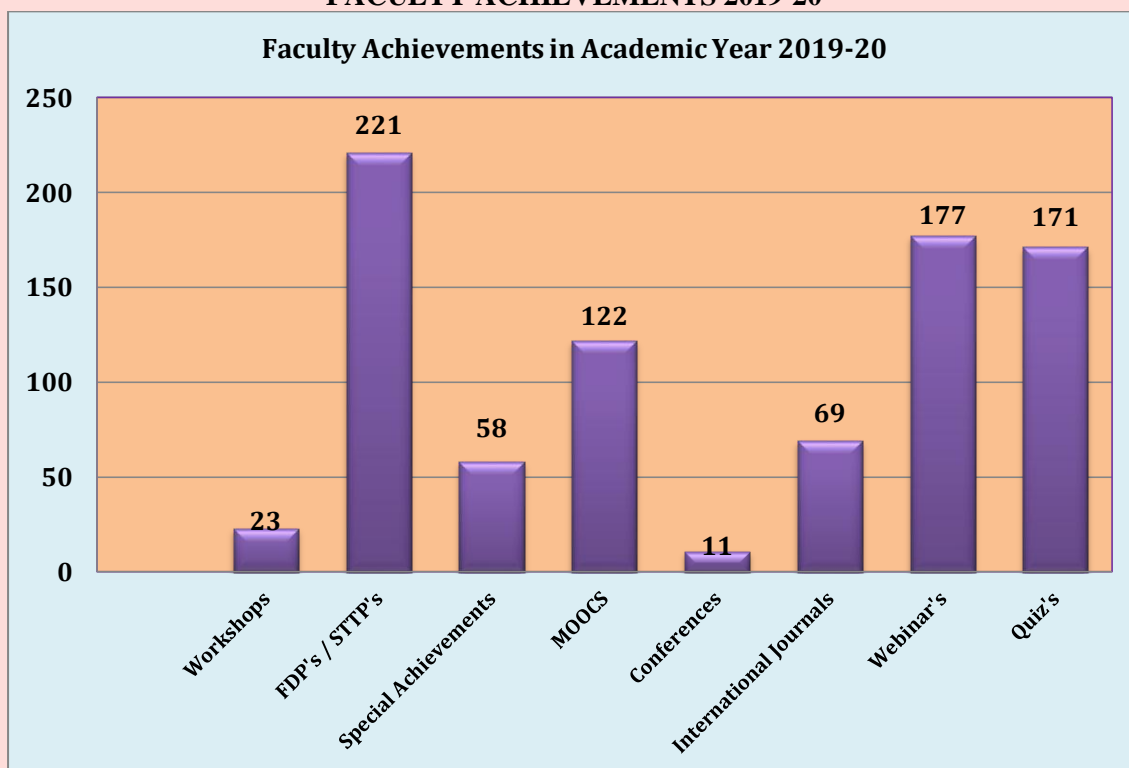
1. Secured Gold Medal in AU intercollegiate Best Physique Championship held at Dr. L. Bullaya College, Visakhapatnam 2019-20.
2. Secured Silver Medal in AU intercollegiate Powerlifting (60 kg) Championship held at Dr. L. Bullaya College, Visakhapatnam 2019-20.
3. got selected for **All India Inter University Physic Championship Competitions** to be held in Chandigarh University during 15th-16th December 2019. (Nationals)



Mr.Y.Abhishek IV/IV ECE-A participated in Sakshi Premier League cricket tournament organized by Sakshi Media Group at Visakhapatnam on 20<sup>th</sup> January 2020. Mr.Abdhul Rehman and Mr.Y.Abhishek IV/IV ECE-A won 2<sup>nd</sup> prize in the sport cricket tournament GITAM PREMIER LEAGUE organized by GITAM UNIVERSITY, Visakhapatnam during 20<sup>th</sup> – 28<sup>th</sup> January 2020.

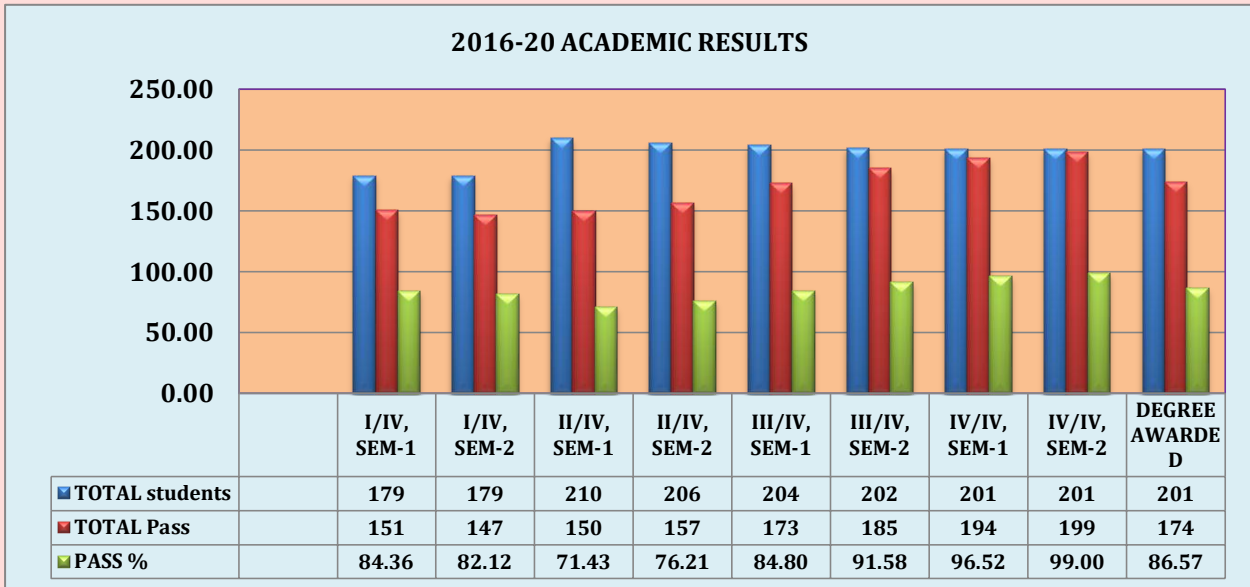
- Mr. K. SHYAM DEEPAK of 2/4 ECE Secured Winner-up in AU intercollegiate **TABLE TENNIS** (Men) Tournament held at Andhra university, Visakhapatnam 2019-20.
- Ms. V. Sree Preeti & Ms. K. Radhika of 4/4 ECE Secured Runner-up in AU intercollegiate **CHESS** Tournament held at Samata College, Visakhapatnam 2019-20.
- Mr. MD. Taj Nawaz of 3/4 ECE Secured Runner-up in AU intercollegiate **Badminton** Tournament held at Andhra university, Visakhapatnam 2019-20.
- Ms.G.Jyothsna II/IV ECE has won Ist prize in KHO-KHO of intra mural events during Jan 2020 for 2 day national level tech fest Tachyon 2020 organized by Department of ECE, Anits.

### FACULTY ACHIEVEMENTS 2019-20

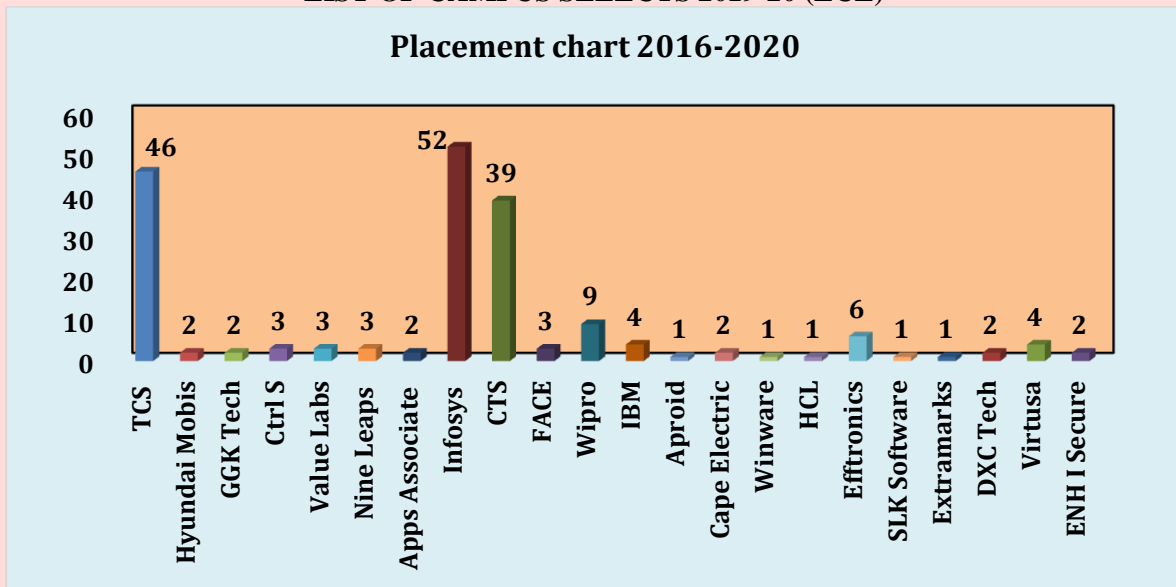




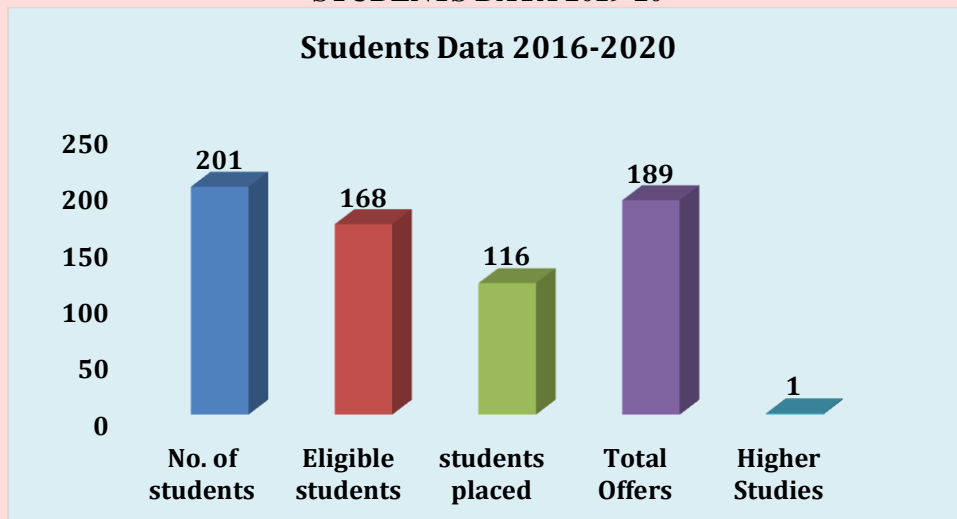
**2016-2020 BATCH OVERALL RESULTS**



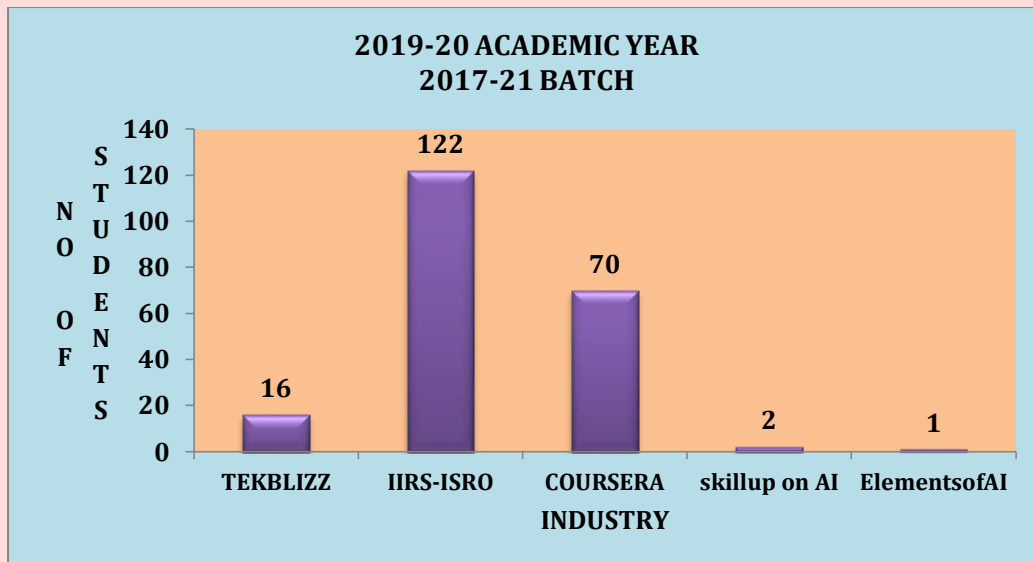
**LIST OF CAMPUS SELECTS 2019-20 (ECE)**



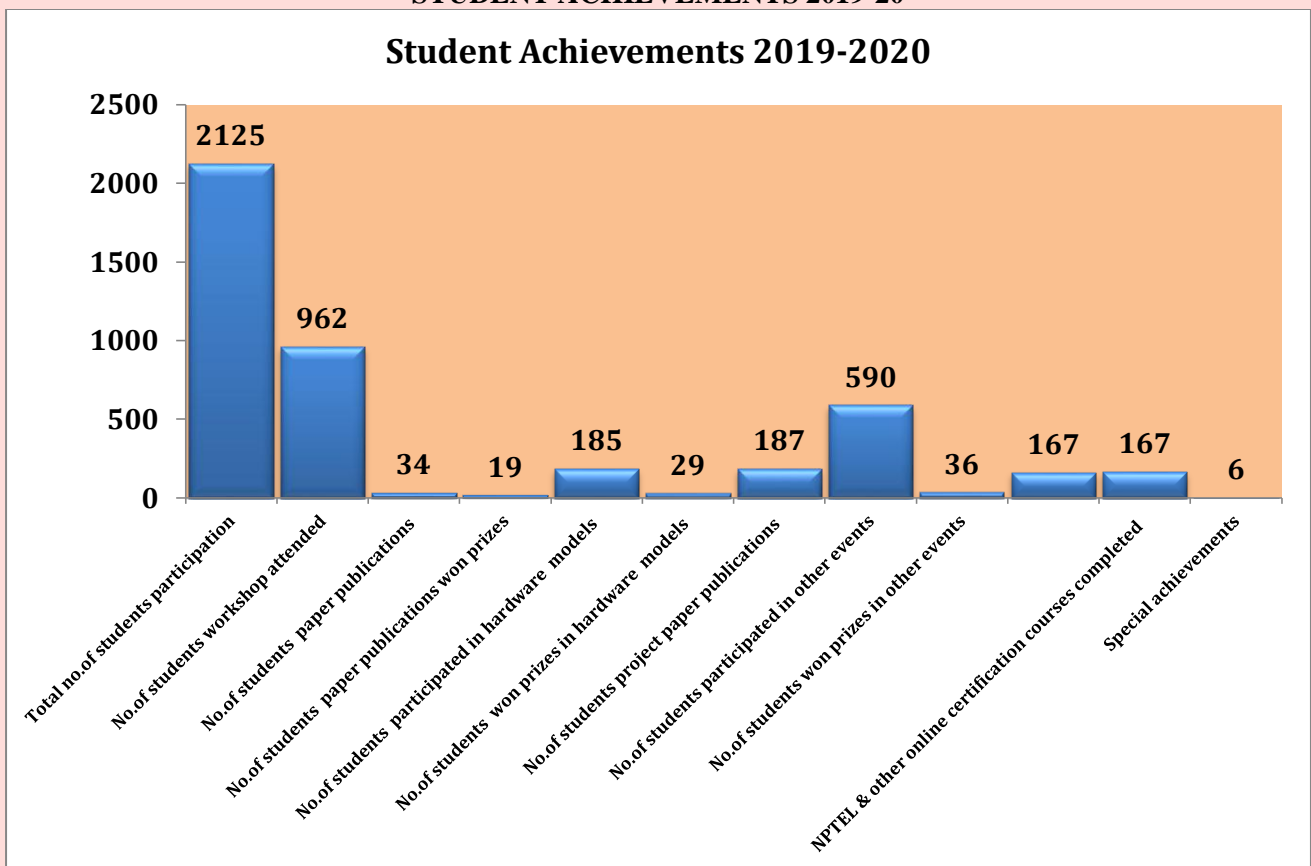
**STUDENTS DATA 2019-20**



**2019-20 ACADEMIC YEAR 2017-21 BATCH INDUSTRIAL TRAINING**



### STUDENT ACHIEVEMENTS 2019-20





**FACULTY (2019-20)**



**IV/IV ECE-A (2016-20 BATCH)**



**IV/IV ECE-B (2016-20 BATCH)**



**IV/IV ECE-C (2016-20 BATCH)**

## **VISION OF THE DEPARTMENT**

To become a centre of excellence in Education, research and produce high quality engineers in the field of Electronics and Communication Engineering to face the challenges of future technological changes.

## **MISSION OF THE DEPARTMENT**

To achieve vision department will

Transform students into valuable resources for industry and society by imparting contemporary technical education.

Develop interpersonal skills and leadership qualities among students by creating an ambience of academic integrity to participate in various professional activities

Create a suitable academic environment to promote research attitude among students.

## **PROGRAM EDUCATIONAL OBJECTIVES (PEOS):**

PEO1: Graduates excel in their career in the domains of Electronics, Communication and Information Technology

PEO2: Graduates will practice professional ethics and excel in professional career through interpersonal skills and leadership qualities

PEO3: Graduates demonstrate passion for competence in higher education, research and participate in various professional activities

## **PROGRAM OUTCOMES (POS):**

Engineering Graduates will be able to:

1. **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6. **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

9. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

10. Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

11. Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

12. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

**PROGRAM SPECIFIC OUTCOMES (PSOS):**

PSO1: Implement Signal & Image Processing techniques using modern tools.

PSO2: Design and analyze Communication systems using emerging techniques.

PSO3: Solve real time problems with expertise in Embedded Systems.

## STUDENTS FEEDBACK



**SRAVANTI NOMULA [2014-18 BATCH]  
RTL DESIGN ENGINEER  
SAMSUNG R&D, BANGALORE.**

*LinkedIn:*

<https://www.linkedin.com/in/sravanti-nomula-120884159/>

This is Sravanti Nomula of batch (2014-2018) ECE, ANITS. I'm currently working as RTL design engineer in Flash-Memory-Controller team of Samsung R&D, Bangalore. I have got AIR- 1022 in GATE, 2018 which helped me in getting admission in IIIT Bangalore MTech Program with VLSI Specialization. Although I have done MTech and got a job in VLSI core company I would like to say that you need not necessarily follow the same path and still get a similar job. Most of my views are VLSI-specific and I'll share some of the things I've learnt..

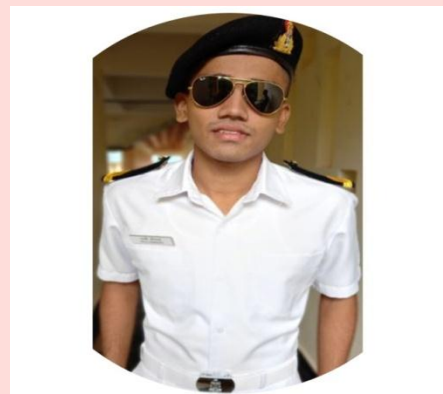
- Most of the companies look for candidates with a mix of conceptual, practical knowledge and good communication skills.
- You need to build a very good resume to get shortlisted, try to have minimum 3 good projects which can be of any of the following category depending on your interest : Verilog-based, Schematic-based , Physical-design, Verification based.
- We have open-source tools for most of the VLSI- Projects, Verilog based projects— Simulators like Xilinx vivado, edaplayground.. etc. Schematic/Circuit based projects—Tools like LTSpice Physical design projects – I've heard there are some open source tools for this too although I haven't personally used them. Verification Projects--edaplayground
- You have to be conceptually very clear in order to crack interviews. I cultivated this habit of reading atleast one of the reference and textbook for each subject cover-to-

cover when I was in BTech. This has tremendously helped me in keeping my concepts clear, getting a high GPA, crack GATE and ultimately to crack written test and interview of Samsung.

- Finally create a linkedin profile, update your interests, upload your resume and approach the people who have jobs which are your dream jobs and ask them how to get there the pre-requisites, the resources everything...

Some of the books I can recommend for digital VLSI interviews are: Morris Mano for digital electronics basics, Samir Palnitkar for Verilog, Weste and Harris for advanced digital electronics, Hennessy and Patterson for processor architecture.

All the Best



**ANIRUDH PALLI [2016-20 BATCH]  
LIEUTENANT COMMANDER,**

**INDIAN NAVY.** 

Schooling from various Kendriya Vidyalayas in different parts of India, followed by a Bachelor's degree in Electronics and communications engineering from ANITS (2015-2019) has been my student life which has paved the way for my success. Being the son of an Ex-Servicemen I was greatly influenced from my childhood that the best way to serve your nation is by serving in the military. Tough to be frank I was not a scholar, but I was smart enough to get on in this world. And that's what you ultimately need to be successful. Hence from childhood onwards I always dreamed of donning the uniform, I gave my first try after my +2, but unfortunately didn't make it. Then I pursued my B.Tech in ANITS, where I could find what life is all about. It was the first time I had to

stay away from my family, therefore I had 4 years to discover myself, since I was not a tech savvy I had to work hard every semester to maintain decent scores, I had my friends who helped me throughout my B.tech. so in a nutshell I am not an extraordinary person, I am just a regular student whom you can find everyday in the college sitting beside you. SSB (services selection board) which takes place for a duration of 5 days will test your personality, character, physical ability and most of all your problem solving ability and finally give a verdict if a person is worthy to be an officer or not. It is not easy to clear this interview, there are many instances where a

complete batch of candidates is deemed unworthy to become officers and all of them are washed out, and if that's not the case only 2-3 candidates are deemed worthy in a batch of about 250-300. So if any of you choose to give an attempt, I would be happy to help you out

By all this what I want to say to my juniors is, nothing is hard, you just have to find what is the correct option for you, and THAT option for THAT person will be easy though it may not be for another.

Contact : 9866533988, 9949391914

Email: [palli.ani97@gmail.com](mailto:palli.ani97@gmail.com)

### PARENT FEEDBACK



**K. NAGESWARA RAO**  
**FATHER OF K. SRINATH (2015-19 ALUMNI)**

Hello,

We are feeling very happy and joy to say something about our beloved institute ANITS. It is one of the most popularized and handsome institute in newly divided Andhra State. We felt so happy to be a part of the institution from Pitapuram, East Godavari District.

The institute is fully equipped with well established Laboratories from which students can learn practically. Institute maintains good faculty, who are very much helpful to students. Mainly ECE Branch is headed by an admirable HOD Dr. V. Rajya Lakshmi Garu, who is very helpful to students. Under her headship students will get not only subject knowledge but also the knowledge that helps to succeed in their future such as leadership and other qualities through multiple events organized in the Department. Under the guidance HOD & faculty the record number of students got placed in various MNC's and I am happy to share that my son is one among them, which is a great privilege to parents from the institute.

Overall the Institute and branch headed by Dr. V. Rajya Lakshmi Garu is a god's gift to the parents and to the students of ECE. Finally it is the most admirable institute in A.P state.

With regards  
KOTHA NAGESWARA RAO  
F/O: K. SRINATH [2015-19 ALUMNI]