NALLA NARASIMHA REDDY EDUCATION SOCIETY'S GROUP OF INSTITUTIONS
(AN UGC AUTONOMOUS INSTITUTION)

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

ELECTRONICS COMMUNICATION AND ENGINEERING

DEPARTMENT NEWSLETTER
2022-23
(JULY-AUGUST)

INSTITUTE's VISION AND MISSION

VISION : To be a premier institution ensuring globally competent and ethically strong professionals.

MISSION :
- To provide higher education by refining the traditional methods of teaching to make globally competent professionals

- To impart quality education by providing the state of the art infrastructure and innovative research facilities.

- To practice and promote high standards of professional ethics, transparency and accountability.

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING
VISION :

- ❖ To produce creative Electronics and Communication engineering graduates with cutting edge technology and Research to meet Industry and societal needs.

MISSION :

- ❖ To provide innovative learning environment to enable the students to face the challenges

- ❖ To provide value based education by promoting activities addressing societal needs

- ❖ To enable graduates to develop the skills to solve complex problems in multidisciplinary activities

DEPARTMENT OF ELECTRONICS & COMMUNICATIONS ENGINEERING

ECE DEPARTMENT NEWSLETTER 2022-23

Index

1. SALIENT FEATURES

ABOUT ECE DEPARTMENT

Electronics is the branch of study that has revolutionized the life style of humanity. It is a pace setter and a prime mover behind the transition to a technological society. The field of Electronics and Communication Engineering encompasses all areas of human life. Radio, television, telephones, computers, automobiles, office machinery and house-hold appliances, life saving medical equipments and space vehicles represent a mere sample in the wide spectrum of application of Electronics.

In the age of satellite transmitted television and transcontinental computer network, the challenge and opportunities in this profession continue to mushroom. Electronics and Communication Engineering graduates have unlimited opportunities in the field of terrestrial and extra terrestrial communication systems like telephones, cellular phones, television, optical fibre communication, consumer and entertainment devices. Highly rewarding and greatly satisfying opportunities await the Electronics and Communication Engineers in the field of satellite space programs, embedded technologies etc.

The Department of Electronics and Communication was started in the year 2009. It is a full-fledged academic department for emerging ECE engineers. B.Tech. (ECE) program was duly approved by the AICTE and affiliated to JNTU, Hyderabad. An intake of 60 was sanctioned initially and then it is raised to 180 from the year 2019. PG Programme in M.Tech with specialisation VLSI & Embedded Systems is approved by AICTE for the academic year 2013-14, with an intake of 18. Faculty of the department are 30 in number out of them 8 are doctorates, and 10 faculty are pursuing their PhD. Younger faculty of the department is having more than 4 years of teaching experience. Department is having nine well equipped and spacious state-of–the-art laboratories. Seminars, Workshops and Technical Symposia are conducted in the department to keep faculty and students updated with latest developments in various technologies. The department is committed to provide students the opportunity to embark on a rewarding and exciting learning journey in preparation for a future career.

The Electronics & Communication Engineering (ECE) Department has built a reputation for excellence in teaching and service. Electronic engineers are changing the world to a comfortable global home. The information and technology revolution has been built on the advances of Electronics.

ECE is making exhilarating progress in areas ranging from microelectronics, mobile communications to VLSI Design Automation. In labs and classrooms, students draw on the expertise and knowledge of our faculty, integrating practical with challenging and interesting course-work. The team approach is very warm in the Department of ECE.
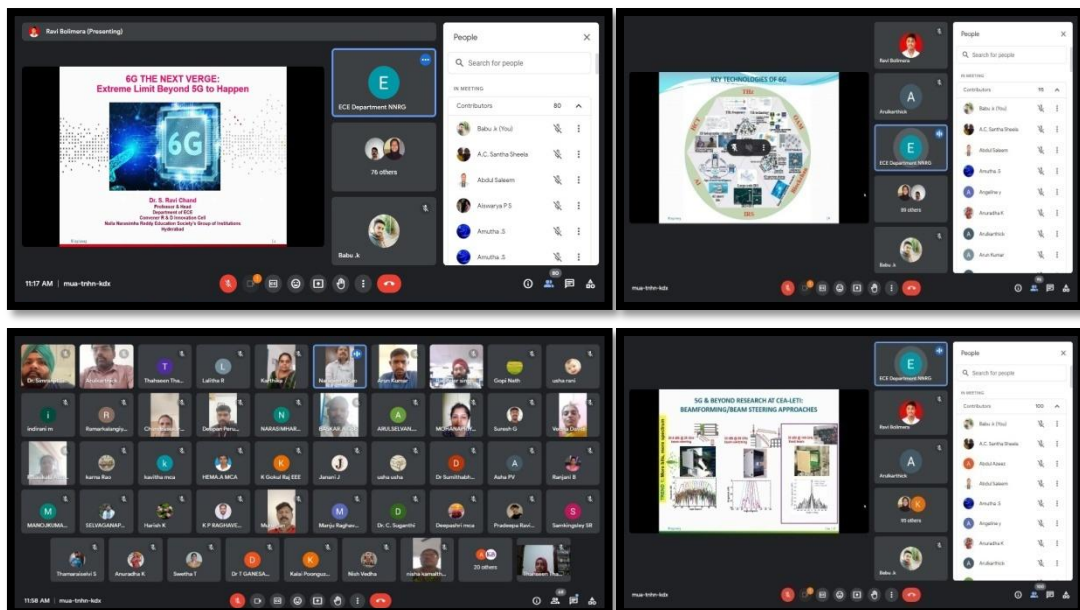
The software's and major Equipments that are available in the department are:

- Cadence EDA Tool
- MATLAB-2014b and Tool Boxes (Simulink, Image Processing, Communication, Signal Processing and Digital Signal Processing System)
- Spectrum Analyzer and Signal Generator
- OFDM trainer kit
- Digital Signal Processors Kits(TMS320C6713)
- Advanced RISC Machine Processor Kits(LPC2148)
- Xilinx SPARTAN 3E FPGA Boards
- Artix-7 FPGA kit, Zynq-7000 SoC kit
- Xilinx Vivado tool

2. DEPARTMENT EVENTS

2.1 FACULTY DEVELOPMENT PROGRAMME

Dr.S Ravi Chand, Professor & HoD acted as resource person of the 5 days Faculty Development Program on 5G NETWORKS & BEYOND and delivered the concepts of 5G CORE 6G The Next Verge on 23rd August 2023 organized by the Department of Electronics and communication Engineering , JCT College of Engineering and Technology, Coimbatore.

2.2 WORKSHOPS & WEBINARS ORGANISED

To impart more practical knowledge and exposure on various emerging areas and its applications in the field of Electronics and Communication Engineering, the Department often organizes various webinars and workshops to bridge the gap between Industry and Academics.

S. No	Date of Event	Name & Designation of the Resource person	Topic	Photo
1	18th - 22th July 2023	1.Dr.B Hari Prasad Naik, Associate Professor, 2.Dr.V Sravan Kumar Associate Professor 3.Mr.Nitesh Gaikwad, Assistant Professor 4.Ms.N.Lavanya, Assistant Professor 5. Mr.A. Aravind, Assistant Professor Dept of ECE, Nalla Narasimha Reddy Education Society's Group of Institutions.	Automation of Digital Logics using HDL's	
2	24th - 28th July 2023.	1.Dr.S.Ravi Chand, Convener, HOD-ECE &Professor 2.Mr.K.Rambabu, Coordinator 3.Mr.N.Suresh Reddy, Assistant Professor 4.Mr.B.Saidulu, Assistant Professor 5.Mr.M,Sharath Chandra, Assistant Professor 6. Dr.B.Ravi, Assistant professor Dept of ECE, Nalla Narasimha Reddy Education Society's Group of Instituitions.	Expand, Educate and Engage on aspects of the ARDUINO	

3	14th - 19th Aug 2023	1.Dr.S.Rekha, Convener 2.Ms.K.Madhavi Coordinator 3.Dr.B.Ravi Assistant professor 4.Mr.P K Kulkarni Associate Professor 5.Dr.S. Karthick Assistant Professor Dept of ECE, Nalla Narasimha Reddy Education Society's Group of Institutions	MATLAB Master Class for Beginners	
4	19th Aug 2023	Mr.Rahul Venepally Founder Center for Entrepreneurship and Innovation Excellence, Serial entrepreneur, Startup Promoter, Business Strategist	Accelerators/ Incubation- Opportunities for Students & Faculties- Early Stage Entrepreneurs	

3. FACULTY ACHIEVEMENTS

3.1 Accepted / Published Journals & Patent

1. Bharadwaja, U & S. Ravi Chand, "Design of High-Speed VLSI Architecture of Approximate Multiplier Using Majority Logic.", Juni Khyat, ISSN: 2278-4632, Vol-13, Issue-08, p.8-18, August 2023.
2. Ravi B has filed a patent entitled "Smart Healthcare Monitoring System Using IoT and Artificial Intelligence" with application number 202341050047 on 25/07/2023 in the Bio-Medical Engineering.

3.2 Faculty Development Programs attended and NPTEL certifications

S.No	Name of the Faculty	Topic	Organization & Place	Duration (From - To)
1	Ms.E.Suneetha	5G Networks and Beyond	Department of ECE,JCT College of Engineering and Technology	22nd -26th Aug 2023
2	Mr.Dr.S.Karthick	Technical Workshop on "Recent Advances in 5G and Beyond	Department of Electronics & Communication Engineering of Matrusri Engineering College.	03r^d -05th Aug 2023
3	Ms.K.Madhavi	Mathworks	Course completion certificate	13th Aug 2023
4	Mr.Koustubh Kulkarni	5G Networks and Beyond	Department of ECE,JCT College of Engineering and Technology	22nd -26th Aug 2023
5	Ms.T.Swetha	5G Networks and Beyond	Department of ECE,JCT College of Engineering and Technology	22nd -26th Aug 2023
6	Ms.M.Sharath Chandra	Research Methodology on Machine Learning and Data Science	B V Raju Institute of Technology,Narsapur, Telangana	10th -14th July 2023
7	Mr.Alampally Aravind	Artificial Intelligence, Machine Learning and it's Application	Bharat Institute of Engineering and Technology, Hyderabad.	10th -14th July 2023
8	Mr.Alampally Aravind	VLSI to System Design: Silicon to End Application Approach	AICTE,Arm Education and STMicroelectronics	31s^{t}July-4th Aug 2023
9	Mr.Alampally Aravind	NLP and ChatGPT APPLICATIONS	SECAB Institute of Engineering & Technology in Collaboration with ExcelR Edtech Pvt. Ltd	14th -19th Aug 2023
10	Mr.U. Bharadwaja	Artificial Intelligence, Machine Learning and it's Application	Bharat Institute of Engineering and Technology, Hyderabad.	10th -14th July 2023
11	Mr.U. Bharadwaja	5G Networks and Beyond	Department of ECE,JCT College of Engineering and Technology	22nd -26th Aug 2023
12	Mr.K.Ramesh	5G Networks and Beyond	Department of ECE,JCT College of Engineering and Technology	22nd -26th Aug 2023
13	Mr.B Saidulu	Applications of ChatGPT in Academics and Research	Department of Research & Publications ,A2Z EduLearningHub LLP	17th July2023
14	Mr.N.Suresh	5G Networks and Beyond	Department of ECE,JCT College of Engineering and Technology	22nd -26th Aug 2023
15	Ms.N.Lavanya	Artificial Intelligence,	Bharat Institute of	10th -14th July

		Machine Learning and it's Application	Engineering and Technology, Hyderabad.	2023
16	Ms.N.Lavanya	5G Networks and Beyond	Department of ECE,JCT College of Engineering and Technology	22nd -26th Aug 2023
17	Ms.Anuradha K	5G Networks and Beyond	Department of ECE,JCT College of Engineering and Technology	22nd -26th Aug 2023
18	Ms.Anuradha K	Artificial Intelligence, Machine Learning and it's Application	Bharat Institute of Engineering and Technology, Hyderabad.	10th -14th July 2023

Certificate of Appreciation:

- Ms.K.Madhavi has received certificate of appreciation from NPTEL for her instrumental role as SPOC based performance and participation of candidates for the Jan-April 2023 semester for the SWAYAM NPTEL Local Chapter.

4. STUDENTS' ACHIEVEMENTS

4.1 STUDENTS FDP'S ATTENDED IN OUR DEPT

A five day workshop on "**Automation of Digital Logics Using HDL's**" for II B.Tech students on **18th July 2023 to 22nd July 2023** was conducted successfully. The workshop has provided an insight on basics of digital logic designs which were used for Digital VLSI design using the Verilog HDLs. Theoretical lectures delivered along with hands on live demonstration of EDA tools for digital design. The students have acquired exposure to Artix-7 FPGA, Zynq-7000 SoC, and Xilinx Vivado ML Enterprise tool for digital design, verification and synthesis, the students were trainde to design, verify, and synthesize the digital circuits using HDLs and advanced FPGAs. Total 35 students were registered for the workshop and participation certificate for all 35 were issued by the college. The faculty coordinators of the five day workshop are **Dr. B. HariPrasad Naik,** Associate Professor and **Mr. A. Aravind**, Assistant professor.

S. No	Roll Number	Name of the Student
1	217Z1A0410	Baraju Vinay Kumar
2	217Z1A0417	Chalamala Sahithi
3	217Z1A0420	D Raghu Chandra Kiran
4	217Z1A0423	Eega Kalyani
5	217Z1A0430	Gattu Sai Chandana
6	217Z1A0432	Goli Sai Charan
7	217Z1A0440	Gurijala Srija
8	217Z1A0446	K Mallikharjun
9	217Z1A0452	Katikola Swapna
10	217Z1A0454	Katkuri Sumaja
11	217Z1A0458	Koheda Ravi Teja
12	217Z1A0461	Kuntamaddi Prakash Reddy
13	217Z1A0462	Lingala Shivani

14	217Z1A0471	Neha Reddy Alva
15	217Z1A0474	Nomula Mahender Reddy
16	217Z1A0482	Rasala Rohini
17	217Z1A0484	Sai Teja Manda
18	217Z1A0486	Shaik Shanavaz
19	217Z1A0487	Sunkari Suraj Kumar
20	217Z1A0489	Tanishq Joshi
21	217Z1A0492	Thette Trisha
22	217Z1A0497	Vemula Bhavani
23	217Z1A0499	Yachareni Bhargavi
24	217Z1A04A3	Balupunuri Ajay Reddy
25	227Z5A0402	Anga Vasanth
26	227Z5A0406	Arigela Rohith
27	227Z5A0417	Bichkunda Chetan Raj
28	227Z5A0423	D Anusha
29	227Z5A0434	Jakkula Poojitha
30	227Z5A0439	Kathula Rakshitha
31	227Z5A0454	Maramoni Shivani
32	227Z5A0461	Munagala Sreenivasulu
33	227Z5A0469	Rallabandi Shruthi
34	227Z5A0471	Sadhu Girindar
35	227Z5A0482	Yaidesh Sagarika

In addition, A five day workshop "**Expand, Educate and Engage on aspects of the ARDUINO**" was organized for II B.Tech students on **24th July 2023 to 28th July 2023**, to introduce participants to the fundamentals of programming and applications using the Arduino platform. Through hands-on activities, participants were taught to create and control various embedded applications. Ultimately, the workshop inspired creativity, problem-solving, and a practical understanding of the intersection between technology and everyday life. The workshop comprised of theoretical lectures and hands on live demonstration of ARDUINO, PROTEUS tools for design. The students had an exposure to ARDUINO boards, ARDUINO IDE, PROTEUS tool for design and execution of projects. After completion of workshop, the students were able to design, handle verification and real time embedded projects for problem solving. Total 41 students were registered for the workshop and participation certificate were issued by the institution. **Mr.K.Rambabu**, Assistant Professor and **Mr.B.Saidulu**, Assistant Professor acted as Faculty Coordinators for the five day workshop.

S. No	Roll number	Name of the student
1	217Z1A0403	Akuthota Sathwik
2	217Z1A0413	Bollam Uday Kumar
3	217Z1A0414	Brahmanpally Amulya
4	217Z1A0425	Gadda Eshwar
5	217Z1A0429	Gannu Saivardhan Reddy
6	217Z1A0434	Goundi Sagar
7	217Z1A0436	G.Sai Kiran
8	217Z1A0437	G.Saisurya
9	217Z1A0442	Jatangi Sharath

10	217Z1A0455	Kemidi Shivani
11	217Z1A0456	Khaithoj Rakshitha
12	217Z1A0459	Kormi Aravind
13	217Z1A0460	Kuchana Nikhil Teja
14	217Z1A0464	Mahankali Sreenitya
15	217Z1A0466	Miryala Vennela
16	217Z1A0473	Nellutla Vivek
17	217Z1A0475	Pamishetti Jaya Pradeep
18	217Z1A0476	Panikanti Vijaykanth Reddy
19	217Z1A0495	V.Murali Krishna
20	217Z1A04A1	Yerukala Nani
21	227Z5A0401	Alle Shivudu
22	227Z5A0408	Arukala Sahith
23	227Z5A0409	Asam Sai Priya
24	227Z5A0410	Asari Rajashekar
25	227Z5A0411	Badengula Bhanu Prakash
26	227Z5A0413	Bathini Arun Kumar
27	227Z5A0418	Bijili Divakar
28	227Z5A0419	Bommakanti Charan Kumar
29	227Z5A0425	Domala Hema
30	227Z5A0432	Gullaiahgari Balakrishna Goud
31	227Z5A0433	Gunnala Asreya
32	227Z5A0435	Janagam Sai Mahesh
33	227Z5A0436	Kamboju Eesritha
34	227Z5A0438	K.Sai Kumar
35	227Z5A0450	Maisa Rachana
36	227Z5A0452	Mannem Sai Madan Sagar
37	227Z5A0453	Mantrawadi Sai Meghana
38	227Z5A0455	Medaboyina Mallesh
39	227Z5A0462	Nakkaramayana Vamshi
40	227Z5A0468	Pasula Shyam Sunder
41	227Z5A0478	Tileti Nikhitha

"MATLAB Master Class for Beginners" A five days workshop was conducted for II B.Tech students from **14th August 2023 to 19th August 2023**, to provide an insight on importance of MATLAB in the field of communication, signal processing, audio and speech processing. The workshop focused on theoretical lectures and live demonstration of the software and various toolboxes. The students got an exposure to Matlab coding, Simulink, signal processing and communication toolboxes. As an outcome of the workshop, the students are able to implement a programming code, design a block using simulink, process audio and speech signals and utilize communication tools. Total 31 students were registered for the workshop and participation certificate for all 31 were issued by the college. **Dr.S.Rekha** And **Ms.K.Madhavi,** acted as Faculty Coordinators for the five day workshop.

S. No	Roll number	Name of the student
1	217Z1A0404	Ande Supriya
2	217Z1A0409	Banda Vineela
3	217Z1A0411	Bathula Likitha
4	217Z1A0412	B Samyuktha
5	217Z1A0415	B Nandeeshwar Reddy
6	217Z1A0418	C Soumya
7	217Z1A0421	D Rafi
8	217Z1A0426	G Sravan Kumar
9	217Z1A0427	G Gunakanth
10	217Z1A0439	G Vamishdher Reddy
11	217Z1A0445	K Harshavardhan Reddy
12	217Z1A0450	K Manideep
13	217Z1A0457	K Rohan
14	217Z1A0485	S Abhilash Reddy
15	217Z1A0496	V Nikhila
16	227Z5A0414	B Bhavani
17	227Z5A0426	D Vaibhav
18	227Z5A0428	E Manisha
19	227Z5A0437	K Shashikumar
20	227Z5A0444	K Ravi Kumar
21	227Z5A0448	M Adarsh Reddy
22	227Z5A0451	M Gayathri
23	227Z5A0458	M Anusha
24	227Z5A0464	N Chandramouli
25	227Z5A0466	P Vidhatri
26	227Z5A0467	P Govardhan
27	227Z5A0473	S Kaveri
28	227Z5A0475	T Sandhya
29	227Z5A0476	T Prashanth Reddy
30	227Z5A0480	V Venkatesh

4.2. RESULTS

B.TECH-II-I-MAR, 2023

S.no	Roll Number	Name of the student	SPGA
1	227Z5A0472	SHETTIPAVANKALYAN	9.24
2	227Z5A0434	JAKKULAPOOJITHA	9.00
3	227Z5A0417	BICHKUNDACHETANRAJ	8.86
4	217Z1A0474	NOMULA MAHENDER REDDY	8.86
5	227Z5A0435	JANAGAM SAIMAHESH	8.86
6	227Z5A0454	MARAMONI SHIVANI	8.86

B.TECH-III-II-JULY, 2023

S.no	Roll Number	Name of the student	SPGA
1	207Z1A0443	E NIKITHA REDDY	8.05
2	207Z1A04C1	S JAYAKRISHNA	7.82
3	207Z1A0431	C AKHILA	7.73

4.3 PLACEMENT SELECTS

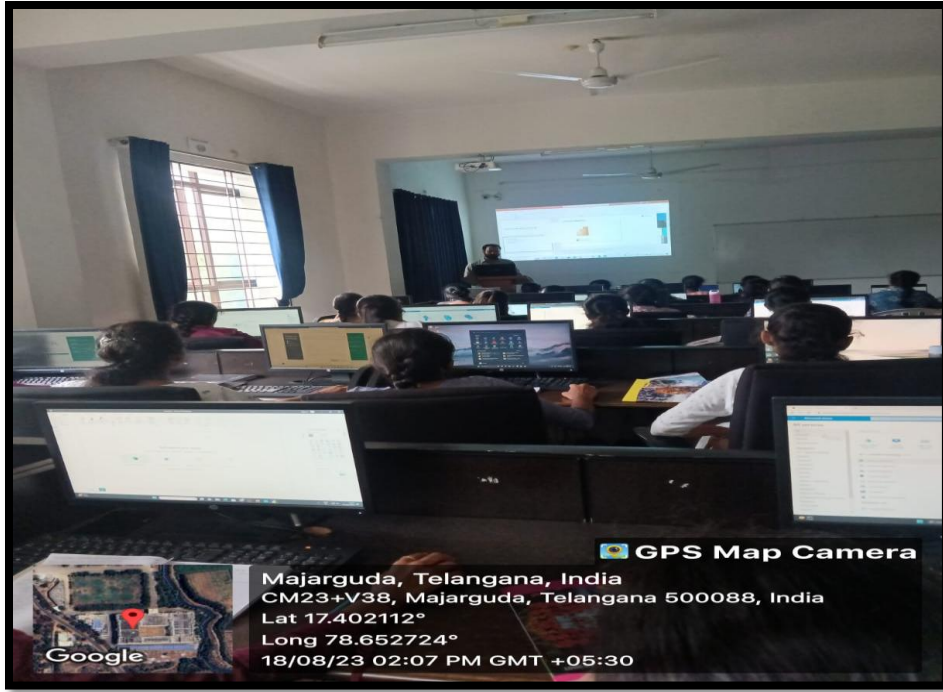| S.no.	Roll no.	Name	MNC name
1	197Z1A0448	Anudeep Katakam	Midwest Energy Pvt.Ltd
2	197Z1A0483	P.Keerthi	SYNOPSIS
3	197Z1A04C5	Y.Sai Lokesh	Medfile

4.4 STUDENTS INTERNSHIP

TECH FOR ALL

Technology for All empowers low-income, underserved and vulnerable persons through the tools of technology. We partner with other non profits, local community-based organizations, educational institutions, corporations, foundations, technology providers and the public sector to provide computer access and training. As we work together we create educational, economic, and personal opportunities for our clients and the communities in which they live.

As a part of this our institution is providing Tech for all skilling Program for Women on Data analytics @Microsoft Power BI and it is implemented by ICT Academy powered by Cognizant from 17 August 2023 to 06 September 2023.

S. No	Roll number	Name of the student
1	207Z1A0403	Addenki Naveena
2	207Z1A0417	B.Manushree
3	207Z1A0439	D.Srutha Keerthi
4	207Z1A0452	Goli Varshitha
5	207Z1A0456	Gudipati Meghana
6	207Z1A0471	K Lakshmi Bhawani
7	207Z1A0478	Kunduru Siri Chandana
8	207Z1A0481	Kyasagalla Ramya
9	207Z1A0487	M.Jansi Rani
10	207Z1A0496	N Harshitha Prakerthi
11	207Z1A04B5	S.Nandhini Reddy
12	207Z1A04B8	Sohaila Samreen
13	207Z1A04C7	T.Pooja Reddy
14	217Z5A0406	Chennaboina Sai Srujana Yadav
15	217Z5A0419	P Manasa
16	207Z1A0498	Narra Deepthi Reddy
17	207Z1A04D0	Vanamala Niharika
18	207Z1A04D6	Kumbam Sruthi

5. EVENTS

➢ **MSME - IDEA HACKATHON 3.0**

SCHEME OBJECTIVE

It aims to provide expert advice and cost-effective solution on real time design problems for new product development, its continuous improvement and value addition in existing/new products. The Design scheme will help MSMEs to avail advice on all aspects of design.

S.No	Team No.	Year & Sem	Hall Ticket	Name of the student	IDEA - Title
1	I	IV - I	207Z1A05G2	Sukanya. Y	Pertinent Destination Alots for Passengers
2	II	Faculty		Ms E.Suneetha	Non -Invasive Prediction of Quality of Edible Oils
3	III	II-II	227Z5A0425	D.Hema	Vibroarthrography Technique
			227Z5A0454	M.Shivani	
4	IV	II-II	227Z5A0428	E.Harshini	Automatic garbage segregator
			227Z5A0453	M.Sai Meghana	
5	V	II-II	227Z5A0439	K.Rakshitha	Ocean wastage collector conveyor belt
			227Z5A0475	T.Sandhya	
6	VI	II-II	227Z5A0409	A.Sai priya	Artisan marketing app
			227Z5A0414	B.Bhavani	
			227Z5A0423	D.Anusha	
7	VII	II-II	217Z1A0464	M.Sreenithya	Smart farming using hydrogels
			217Z1A0466	M.Vennela	
8	VIII	II-II	217Z1A0497	V.Bhavani	Trawell- your ultimate trip planning app
			217Z1A0496	V.Nikhila	
9	IX	Faculty		Dr S Rekha	Design and development of interior wideband conformal meander antenna for capsule endoscopy applications

INDPENDANCE DAY CELEBRATIONS

India celebrating their 77th Independence Day on **August 15, 2023**. The theme for this year's celebration is "Nation First, Always First". This theme is in line with the government's focus on national unity and development.

Chandrayaan-3: A complete guide to India's third mission to the moon

Chandrayaan 3 Essay and Short Speech in English for College Students. National Space Day was celebrated on August 23rd every year. As announced by PM Narendra Modi to commemorate Chandrayaan 3 Triumph. The Chandrayaan 3 Rover Pragyaan has ramped down from the Lander. Proud moment for every Indian upon soft-landing of Chandrayaan. Showcasing India's strong determination to uncover the moon's mysteries. In this regard, we have conducted an essay competition on Chandrayaan 3 about 300 words. Students can refer to this essay and came up with their own modifications and tweaks in the essay body.

OUTREACH PROGRAM

As part of IIC 5.0 Activities for Academic Year 2022-23 & ATL Schools, IIC NNRG Organized an Innovation & Entrepreneurship Outreach Program in Johnson Grammar School, Mallapur to Create "Awareness about Startup and related Ecosystem Support Services for Startup Development".

ORIENTATION PROGRAMME

NNRG organized orientation programme for the upcoming students, joining I B.Tech. ECE, CSE (AIML), IT & Civil into the Academic Year 2023 – 2024.

Sri. Bala Prasad Peddigari, Chief Innovation Officer – TCS, was the chief Guest on this occasion and addressed the students to get higher positions in the country and innovations. He advised the students to utilize the Incubation Center in the College and keep motivated.

Sri. Nalla Prashanth Reddy, Vice Chairman, NNRG addressed the students to utilize the facilities in the college and support will be extended to them for their career. Dr.C.V.Krishna Reddy, Director of the Institution, briefed the students about discipline, academic regulations, credit system & punctuality.

TECH TALK SERIES LEARN INNOVATION

Under the banner **"LEARN INNOVATION –Let's KNOW the EDGE by KNOWLEGDE"** as a part of Teaching-Learning initiative for the purpose of 'Knowledge-sharing' and 'Knowledge-transfer' for letting us know the awareness, significance & usage in making our learning &progress towards the technological developments in a better way. Hope, this will be a good move for the 'known' and 'to-know' in making &improving ourselves about the information of gadgets, trends, technologies and many more.

1. Dr S.Rekha, Associate Professor has delivered about Wearable antennas, which includes specifically designed to function while being worn. These antennas must be of light weight, flexible, low cost, and portable. They need to be capable of operating with minimum degradation in proximity to human body. Some of the recent research areas in wearable antennas are radiation reduction, polarization, miniaturization, robustness, isolation, structural deformation, flexibility.

2. Dr.V.Sravan Kumar, Associate Professor has delivered a topic on "Overview of Video Coding Methodologies"**.** In this talk sir have explained about block partitioning in h.264 and HEVC video coding standards and how Motion estimation plays a major role in any video encoder**.**

3. Ms.Madhavi, Assistant Professor has delivered a topic on "Artificial Intelligence" which is an emerging area by which day to day technology is growing rapidly. In the medical field also this has been introduced and found tremendous results in many unsolved applications. Moreover, CNN with machine learning is an advanced version which solves many industrial applications as well as daily needs.

4. Dr.S.Karthik, Assistant Professor have delivered a topic on "Array Signal Processing for MIMO radars" on 11th August 2023.In this talk sir have explained about ESPRIT (Estimation of Signal Parameters via Rotational Invariance Technique) and MUSIC (Multiple Signal Classification) direction estimation algorithm for MIMO radar. Use of EV (Electromagnetic Vector) sensors in MIMO radar.

5. Dr.T.Rajashekar, Associate Professor, have delivered a topic on "Static timing analysis (STA) is one of the techniques to verify design in terms of timing". This kind of analysis doesn't depend on any data or logic inputs, applied at the input pins. The input to an STA tool is the routed net list, clock definitions (or clock frequency) and external environment definitions. The STA will validate whether the design could operate at the rated clock frequency, without any timing violations. Some of the basic timing violations are setup violation and hold violation.

6. MrB.Ravi, Assistant Professor have delivered a talk on "Deep learning speech synthesis uses Deep Neural Networks (DNN) to produce artificial speech from text (text-to-speech) or spectrum (vocoder)". The deep neural networks are trained using a large amount of recorded speech and, in the case of a text-to-speech system, the associated labels and/or input text.

7. Mr.Prashanth Kulkarni, Associate Professor have delivered a topic on "Optimization techniques for wireless sensor network". In this talk sir have explained need of optimization types of optimization how to write objective function for a problem and also about met heuristic optimization techniques like PSO, ACO used for wireless sensor network.

7. ALUMINI

Hi, my name is VARAKALI PAVAN KUMAR. I am 2019 passed out student of NNRG. Currently working with SID GLOBAL SOLUTIONS with 4 years of experience in installation, configuration and administration of Google Apigee, Kubernetes Platform. My best experiences at NNRG where I met the strangers and now they became friends forever, we used to chill in the cafeteria and in football ground, but we used to the Things on time and manage work. Our faculty helped us a lot in terms of subject, knowledge and they used to teach us things are in the outside world. I would say we learned a lot in the college and enjoyed too.

Hi, my name is P.Keerthi (Roll.No:197Z1A0483).I am 2023 passed out student. Currently working in SYNOPSIS Company. It was great experience, Happy to be in part of NNRG, great place to learn, eco-friendly environment, friendly and experienced faculty.

WISHING YOU ALL SUCCESS AND GOOD HEALTH!