NALLA NARASIMHA REDDY
Education Society's Group of Institutions - Integrated Campus
(Approved by AICTE, PCI, New Delhi, Accredited by NAAC with 'A+' Grade, Affiliated to JNTU Hyderabad)
Near Narapally, Chowdariguda (V), Korremula 'X' Roads, Ghatkesar (M), Medchal-Malkajgiri Dist., Hyderabad, T.S. - 500 088.

UGC AUTONOMOUS INSTITUTION

Nalla Narasimha Reddy Group of Institutions
NNRG Integrated Campus

Accredited by
A+ NAAC

NBA CSE ECE

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SCHOOL OF ENGINEERING

Department
of
Electronics and Communication Engineering

NNRG EC Technocrats Ornate Report
NECTOR

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

DEPARTMENT
OF
ELECTRONICS & COMMUNICATION ENGINEERING

ELECTRONICS   COMMUNICATION
AND ENGINEERING

NNRG EC Technocrats Ornate Report
NECTOR
SEPT-OCT : 2023-24

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 equipment 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

The Electronics and Communication Engineering department of NNRESGI, Hyderabad had organized a maiden event named **"IETE Congregation"** on **30th September, 2023** (Saturday) atthe Auditorium Hall. This program had witnessed some of the eminent dignitaries

- Dr.V.Gunasekhar Reddy, Retd-DIG,Police Officer & President-IETE, New Delhi as thechief guest.
- Dr. K.Jaya Sankar, Professor, ECE, Methodist College & Vice-President, IETE NewDelhi as Guest of Honour.
- Dr.C.V.Krishna Reddy, Director, NNRESGI & IETE Executive Council Member, NewDelhi
- Er. Nuli Namassivaya, Assoc. Prof., ECE,MVSR & Chairman, IETE-Centre,Hyderabad.
- Dr. S.Ravi Chand, Professor & Head, ECE, NNRESGI as IETE Convener.
- Dr. K.Rameswariah, Professor & Head, CSE, NNRESGI.
- Dr. B.Hari Prasad Naik, Assoc. Prof, ECE, NNRESGI as IETE Coordinator

Along with ISF elected students, office barriers and other faculty and staff with B.Tech (ECE) and other department students.

- ❖ This program was organized for the teaching, research & student community with an intention & motive to create the awareness and understanding of IETE

organization and ISF forum and its activities. A total strength of nearly 143 students along with 24 faculty & staff were the audience for the event.

❖ The inaugural session was held at 2:00PM, and welcome speech with the department profile was highlighted by Dr.S.Ravi Chand, Head, ECE where he outlined the brief information about the milestones and achievements of the department and future plans for technical events to foster the growth of learning and experience for the engineering community. His speech was followed by all the dignitaries with their sharing of valuable thoughts and inputs for the fraternity present.

IETE President & members conferring the membership to our Institute
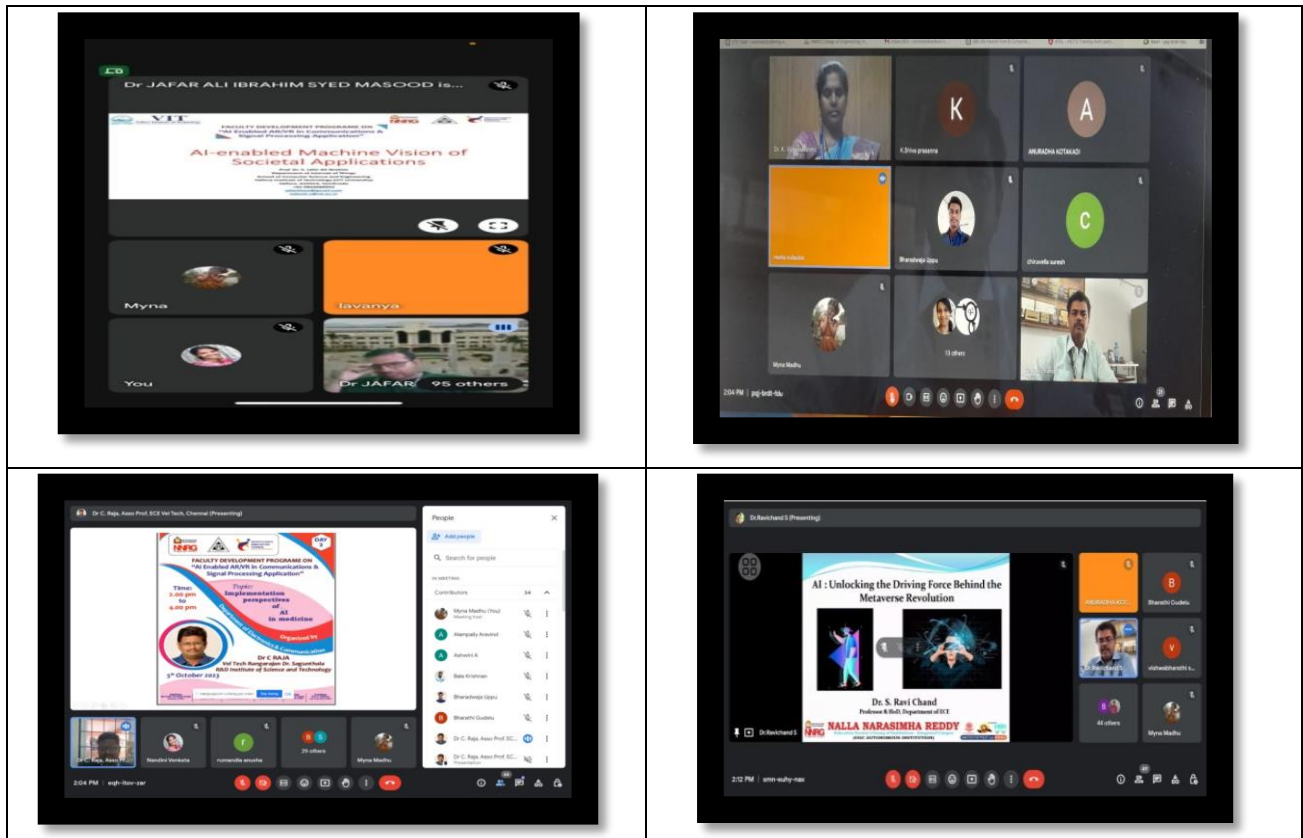
2.1 FACULTY DEVELOPMENT PROGRAMME

FDP on "*AI Enabled Augmented Reality/Virtual Reality in Communication & Signal Processing Applications*" (3rd October 2023 to 7th October 2023)
The Department of ECE successfully conducted five days FDP on " AI Enabled Augmented Reality/Virtual Reality in Communication & Signal Processing Applications " for Faculty from 3rd October 2023 to 7th October 2023. The FDP aimed to enhance the faculty's skills and understanding in the field of AI enabled augmented Reality & Virtual Reality in communications & signal Processing equipping them to impart knowledge to their students effectively and gave them an understanding of metaverse and incorporated technology in to its functioning.

This program was designed with expert speakers delivering lectures from various domains based on their expertise i.e, Prof .Dr.Jafar Ali Ibrahim.S, VIT, Vellore, Dr. K.Vijaya Lakshmi, Hindustan Institute of Technology and Science, Chennai, Dr. C RAJA,Vel Tech Rangarajan Dr.Sagunthgala R&D Institute of Science and Technology, Prof. Dr. S.Ravi Chand, HoD ECE ,NNRG, Hyederabad, Dr.CH.Vijaya Lakshmi, St.Peters's Engineering College, Hyderabad.

Total 415 Faculty were registered for the FDP and participation certificate to all active participants acquiring more than 75% of attendance.
Mrs. K. Madhavi, acted as Coordinator for a five day FDP, on the day of inauguration, she has given complete outline of the program and schedule of all day with speakers.
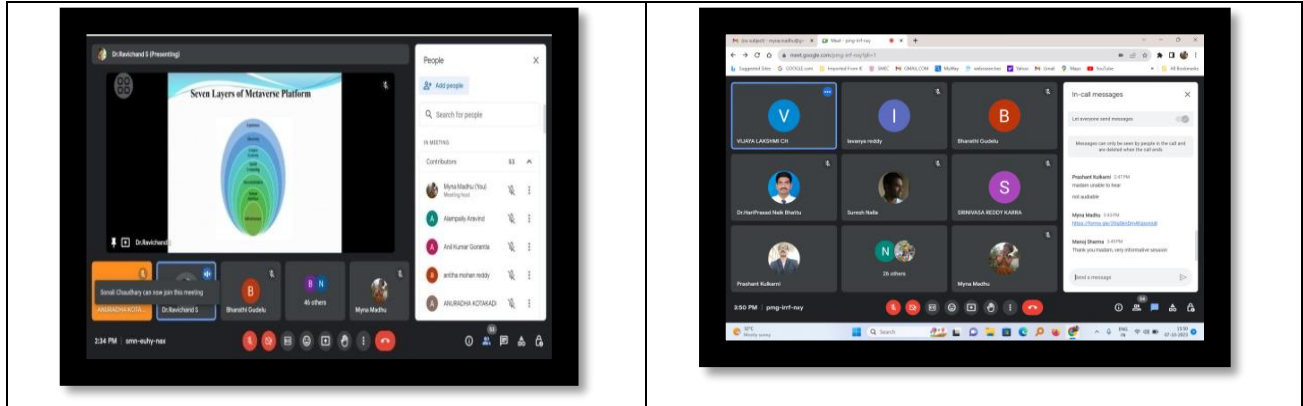
Resource persons sharing their thoughts on AI Enabled Augmented Reality/Virtual Reality in Communication & Signal Processing Applications.

3. FACULTY ACHIEVEMENTS

3.1 Accepted / Published Journals & Patent

1. S. Ravi Chand, published a paper, entitled "Walking pattern analysis using GAIT cycles and silhouettes for clinical applications" in Measurement: Sensors, Volume 30, 2023, 100893, ISSN 2665-9174, https://doi.org/10.1016/j.measen.2023.100893.
2. Lavanya Nalla has published a patent entitled "Intelligent car parking application using Andriod Studio and Machine Learning" with application number 202341058656 A,
3. V.V.Nandini, published a paper entitled "A wide tuning range and phase noise Differential Ring Voltage Control Oscillators (DRVCO) for wireless communications" in Journal of physics: conference series, volume 2471, 2023,DoI-10.1088 ISSN 1742-6596.

3.2 Faculty Development Programs attended and NPTEL certifications

The Department of ECE successfully conducted five days FDP on " *AI Enabled Augmented Reality/Virtual Reality in Communication & Signal Processing Applications* " for Faculty from **3rd October 2023 to 7th October 2023**. The FDP aimed to enhance the faculty's skills and understanding in the field of AI enabled augmented Reality & Virtual Reality in communications & signal Processing equipping them to impart knowledge to their students effectively and gave them an understanding of metaverse and incorporated technology in to its functioning.

S.No	Name of the Faculty	Topic	Organization & Place	Duration (From - To)
1	Dr.S.Karthick	Artificial Intelligence and Machine Learning	NIELIT VIRTUAL ACADEMY	01-Aug -15-September 2023
2	Ms.N.Lavanya	Programming, Data Structures and Algorithms Using Python	NPTEL CERTIFICATE, IIT Madras	July -Sep October 2023

3.3 Achievements:

❖ Ravi Bolimera, Assistant Professor has successfully obtained his PhD in the area "Speech Signal Pocessing" entitled – "Investigations on different Deep Learning Architectures for Telugu language Text-To-Speech Synthesis System" PhD from NIT WARANGAL.

❖ A One week offline ATAL FDP approved on "Artificial Intelligence and Internet of Things for Building Signal Processing Applications" from the 11-Dec -16 Dec 2023.

❖ Sravan K.Vittapu, Ravichand Sankuru, Kemidi Madhavi, Edavaluri Suneetha, Suresh Nalla, and S Karthick, paper entitled "Machine Learning and IoT Based Efficient Power Conservation System for Smart Buildings", Accepted for publication in 8th International Conference on Internet of Things and Connected Technologies (ICIoTCT2023).

4. STUDENTS' ACHIEVEMENTS

4.1 STUDENTS SDP'S ATTENDED

Department of Electronics and Communication Engineering in association with IETE Student Forum (ISF) has successfully organized a one week Student Development Program (SDP) for all IV B.Tech ECE Students from 16th – 21st October 2023

Following are the SDP's

❖ "Advanced VLSI Design: RTL to GDS II"

The objective of this student development program is to provide the insights and get expertise on advanced design and verification EDA tools. The SDP focused mainly on the design, implementation and verification of Digital VLSI Logics using Verilog HDLs and the use of Advanced IP cores for design. Further, a hands-on session on physical layout design, implementation and verification using backend EDA tools was demonstrated.

The final year students will have an exposure to advanced Artix-7 FPGA, Zynq-7000 SoC, Xilinx Vivado ML Enterprise tool for design, verification and Synthesis. After completion of student development program, the students will be able to design, verify, synthesize, simulate and realize the digital logics using IP Cores and advanced FPGAs.

Total 42 students were registered for the student development program and gained knowledge

The NIVAG Team led by Dr. B. HariPrasad Naik, *Associate Professor,* ECE, consists of 6 members **Dr.T.Rajsekhar**, *Associate Professor,* ECE, **Ms. N.Lavanya,** *Assistant Professor*, ECE, **Mr. K. Ramesh,** *Assistant Professor,* ECE, **Ms.VV Nandini***, Assistant Professor,* ECE, **Ms. K.Shiva Prassanna***, Assistant Professor***,** ECE, **Mr.Bharadwaj,** *Assistant Professor,* ECE, worked as Faculty coordinators for the one week student development program.
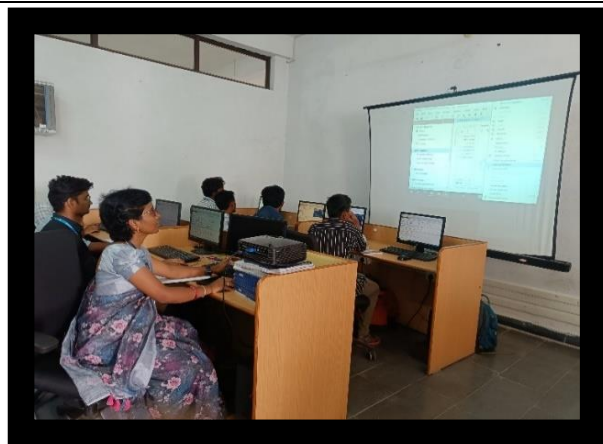
NIVAG Research group with HoD

S. No	Roll Number	Name of the Student
1	207Z1A0443	Enthala Nikitha Reddy
2	207Z1A0442	Dussa Manvitha
3	207Z1A0440	Donthidi Goureeshwar Reddy
4	207Z1A0403	Addenki Naveena
5	207Z1A0441	Durgam Shiva
6	207Z1A0430	Chintalapally Sahithi
7	207Z1A0402	Abhi Ram Samalla
8	207Z1A0451	Gangadichandravardhan Reddy
9	207Z1A0437	Dindu Akhil Goud
10	207Z1A0414	Banuka Sanjay
11	207Z1A0413	Balla Hindu Priya
12	207Z1A0412	Bairagoni Anand
13	207Z1A0415	Basani Praneeth

14	207Z1A0408	Amudha Nagateja
15	207Z1A0429	Chepuri Rakshana
16	207Z1A0418	Beeradhar Mahesh
17	207Z1A0435	Debbata Sahithi Sai
18	207Z1A0428	Chennupati Chaitanya
19	207Z1A0416	Batu Vinay Kumar
20	207Z1A0471	Laxmi Bhavani
21	207Z1A0494	Ganesh
22	207Z1A04A0	Padma Arun
23	207Z1A0478	Siri Chandana
24	207Z1A0489	Rohith Vardhan
25	207Z1A0458	Naveen Naik
26	207Z1A0479	Madhu Ramudu
27	207Z1A0491	Rameshwar Reddy
28	207Z1A0482	Manasa Reddy
29	207Z1A0488	Manish
30	207Z1A0472	Anjan Saketh
31	207Z1A0495	Vamsi Krishna Reddy
32	217Z5A0421	Sevarthi Shiva Prasad
33	217Z5A0416	Minipuri Naveen Reddy
34	217Z5A0414	Manga Bhargavi
35	217Z5A0406	Chennaboina Sai Srujana Yadav
36	217Z5A04C2	Telagama Vamshi
37	217Z5A0407	Erigi Sravani
38	207Z1A04D3	Veeramreddy Mahih Reddy
39	217Z5A0401	Adunuri Ganesh
40	207Z1A04C0	Somi Reddy Amulya
41	207Z1A04B4	Sarvode Sai Aashrith
42	217Z5A0417	Muriki Maniteja
43	207Z1A04C3	Tella Krishna Prasad Reddy

❖ "Entrenching Ansys HFSS & MATLAB for Communication & Networking"

The Research group NICoN of Department of ECE successfully conducted one week workshop on "**Entrenching Ansys HFSS & MATLAB for communication & Networking**" for IV B.Tech students from 16th October 2023 to 21st October 2023. The aim of this workshop is to provide an insight on importance of ANSYS HFSS & MATLAB Software for student development in the field of wireless communication, signal processing, antenna design and so on. The workshop comprises of theoretical lectures and demonstration of the software and various toolboxes by department faculties.

The students got an exposure to MATLAB coding, V2V communication, LIFI technology, Antenna design and communication toolboxes. As an outcome of the workshop, the students are able to develop programming code, process of V2V communication, Antennas design and simulation.

The **NICoN Team** led by **Dr. S.Rekha,** *Associate Professor*, ECE consists of 5 members **Mr. Mr.P.K.Kulkarni**, *Assistant Professor*, ECE , **Mr. A. Aravind**, *Assistant Professor*, ECE, **Ms. K. Anuradha**, *Assistant Professor*, ECE, **Ms. T.Swetha** *Assistant Professor*, ECE and **Mr N Raju,** *Assistant Professor*, ECE.

NICoN Research group with Director, Dean and HoD

S.No	Roll Number	Name of the student
1	207Z1A0419	Boda Anjali Asuram
2	207Z1A0420	Boddupally Kavya
3	207Z1A0453	Gone Satish
4	207Z1A0432	D Ravali
5	207Z1A0433	Dandugula Deepthi
6	207Z1A0407	Amidala Sai Rohith Goud
7	207Z1A04B1	Rasukachula Balamanikanta
8	217Z5A0420	R B Joharika
9	207Z1A04D7	Padakantti Abhishek Reddy
10	207Z1A04B8	Sohaila Samreen
11	217Z5A0409	Kamuju Sri Satya Tanush
12	207Z1A04C5	Thatipally Shiva Kumar
13	217Z5A0418	P Nikitha
14	207Z1A04D6	Kumbam Sruthi
15	207Z1A04A8	Puli Gopichand

❖ "Ideas to Reality : Embedded Systems & IoT"

The newly created club NNRG Embedded & IoT Nerds **(NeIoN)** Team had organized a Student Development Programme on **"IDEAS TO REALITY: EMBEDDED SYSTEMS & IoT".** This program was organized exclusively for the students belonging to the Embedded Systems & IoT domain with an intention & motive to let them know the concepts, ideas and create the awareness and understanding of latest trends and applications.

The **NEIoN Team** led by **Dr. Ravi Bolimera,** *Assistant Professor*, ECE consists of 5 members **Mr. K.Rambabu**, *Assistant Professor*, ECE , **Mr. Nitesh Gaikwad**, *Assistant Professor*, ECE, **Mr. M.Sharath Chandra**, *Assistant Professor*, ECE, **Mr.B.Saidulu,** *Assistant Professor*, ECE and **Mr. Koustubh Kulkarni,** *Assistant Professor*, ECE.

NeIoN Research group with Director, Dean and HoD

S.no	Roll No.	Name of the student
1	207Z1A0452	Goli Varshitha
2	207Z1A0421	Bokka Thanooj Kumar
3	207Z1A0448	G Venugopal Reddy
4	207Z1A0439	Dondla Srutha Keerthi
5	207Z1A0434	Danthinapalli Jaisai Vardhan
6	207Z1A0447	Ettedi Vedaujwala
7	207Z1A0425	Bukka Sai Priya
8	207Z1A0424	Bugga Sravani
9	207Z1A0438	Dommata Umesh
10	207Z1A0445	Errabelli Aishwarya
11	207Z1A0423	Boppidi Pravalika
12	207Z1A0422	Bonagam Sairam Chakravarthi
13	207Z1A0431	Chinthakuntla Akhila

S.no	Roll No.	Name of the student
14	207Z1A0409	Arelli Manoj Kumar
15	207Z1A0406	Alli Nishanth
16	207Z1A0417	Battula Manu Shree
17	207Z1A0446	Erukala Revanth Goud
18	207Z1A0436	Dharmishetti Manikumar
19	207Z1A0427	Chennadi Thirumala
20	207Z1A0449	Gali Hemakanth
21	207Z1A0450	Ganagam Umeshchandra
22	207Z1A0460	Guruvelli Chandrika Apoorva
23	207Z1A0454	Goppa Yashwanth Reddy
24	207Z1A0475	Kotagiri Neeraj
25	207Z1A0462	Javaji Murari
26	207Z1A0485	Makam Yeshwanth
27	207Z1A0466	Kancharla Rahul Reddy
28	207Z1A0481	Kyasagalla Ramya
29	207Z1A04A7	Pulgam Harshitha
30	207Z1A0497	Narige Revanth Kumar
31	207Z1A0496	Nagadi Harshitha Prakeerthi
32	207Z1A0499	Oggu Manoj Kumar
33	207Z1A04A1	Palusa Murari Goud
34	207Z1A04A4	Parupati Nitheesh
35	207Z1A0465	Kampelli Harika
36	207Z1A04A5	Pathipati Nithesh
37	207Z1A0463	Julukanti Sathwik
38	207Z1A0464	K Naveen
39	207Z1A04A6	Pettem Vikas Varma
40	207Z1A04B5	Shamakuri Nandhini Reddy
41	217Z5A0415	Marella Sravya
42	207Z1A04B6	Singirala Srinath
43	207Z1A04C7	Thumukunta Pooja
44	207Z1A04C6	Thumu Vikranth
45	207Z1A04C4	Thamatam Ediga Sesha Mahesh Goud
46	207Z1A04D0	Vanamala Niharika
47	207Z1A04B7	Sirisanagandla Sri Vyshalini
48	207Z1A04D5	Yeravelli Ajay
49	217Z5A0423	Vallangula Tejasvi
50	207Z1A04B2	Sai Lakshmi
51	207Z1A04D4	Vupula Mahender

S.no	Roll No.	Name of the student
52	217Z5A0405	Chandubatla Sneha
53	217Z5A0411	Kasthi Rishika
54	217Z5A0410	Kanike Shivalingam
55	217Z5A0408	K Pavan Kumar
56	217Z5A0419	Pekkamwar Manasa
57	207Z1A04A9	Puttolu Mahesh

❖ "Machine Learning/Deep Learning Algorithms for Image Processing Applications Using Python & MATLAB"

The aim of this workshop is to provide an insight on importance of Machine Learning/Deep Learning Algorithms for digital image processing and speech processing applications. The workshop comprises of theoretical lectures delivered by department faculties and also live demonstration of the software and various toolboxes. Total 30 students were registered for the workshop.

The students got an exposure to MATLAB coding, Python coding, signal processing and image processing toolboxes. As an outcome of the workshop, the students were able to implement a programming code, design automotive models using MATLAB and Python, processimage, audio and speech signals and utilize Machine Learning tools.

Dr. V. Sravan Kumar, *Associate Professor,* ECE, **Mrs.K.Madhavi,** *Assistant Professor,* ECE, **Dr. S.Karthick**, *Assistant Professor,* ECE, **Mrs.E.Suneetha**, *Associate Professor,* ECE, **Mr.N.Suresh Reddy,** *Assistant Professor*, ECE and **Mr.Ch.Phanidra,** *Assistant Professor* , ECE acted as Faculty Coordinators .
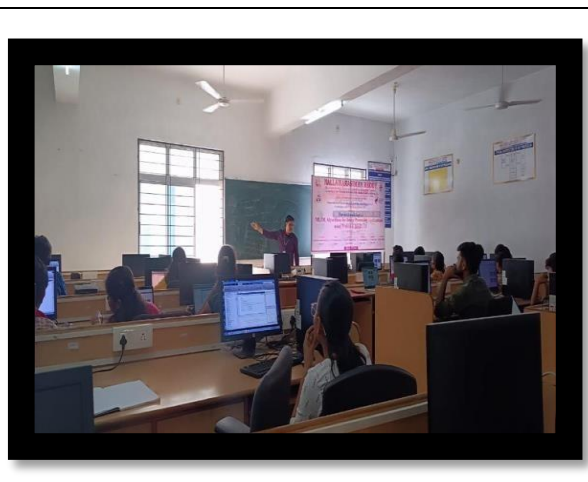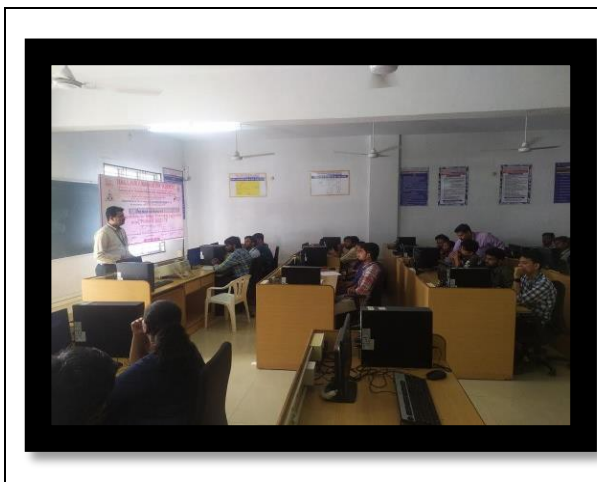
NESIP Research group with Director, Dean and HoD

S. No.	Roll No.	Name of the student
1	207Z1A0405	Aleti Vinay Kumar
2	207Z1A0401	A Sanjana
3	207Z1A0410	Baddam Ramnivas
4	207Z1A0456	Gudipati Meghana
5	207Z1A0476	Kothapally Nithin
6	207Z1A04A3	Parsa Dilip
7	207Z1A0473	Kontham Sindhuja Reddy
8	207Z1A0493	Mitta Akshith Reddy
9	207Z1A0467	Kandadi Vaibhav Reddy
10	207Z1A0484	Madugula Nikhil
11	207Z1A0455	Gouni Kavya
12	207Z1A0470	Kesari Anjith Prasad Rao
13	207Z1A0487	Mandhula Jansi Rani
14	207Z1A0477	Koukuntla Meghana
15	207Z1A0468	Karupakala Shivcharan
16	207Z1A0498	Narra Deepthi Reddy
17	207Z1A0483	Madineni Sai Kumar
18	207Z1A04A2	Panuganti Swaroop Reddy
19	207Z1A0480	Kuthuru Thapan Reddy
20	207Z1A0461	Janga Pranay
21	207Z1A0474	Kore Pradeep
22	207Z1A04D1	Vanampally Ajith Reddy
23	207Z1A04B9	Somi Reddy Sathvik Reddy
24	207Z1A04C9	Vadla Sai Kiran
25	217Z5A0412	Komatipally Sayamma
26	217Z5A0404	Bijju Vaishnavi

27	207Z1A04B3	Salla Sai Teja
28	207Z1A04C1	Sreeram Jayakrishna
29	217Z5A0422	Vadthavath Pranitha
30	217Z5A0413	Koyyani Amrutha Varshini

5.EVENTS

➤ MSME – Technology Awareness Meeting

The **Ministry of Micro, Small and Medium Enterprises** is the ministry in the Government of India. It is the apex executive body for the formulation and administration of rules, regulations and laws relating to micro, small and medium enterprises in India.

Technology Awareness Meeting was held on 13-09-2023 at conference hall.

Mr. G.Sanath Kumar, Deputy Director, MSME Tool Hyderabad, CITD explained about the importance of MSME.MSME 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 a device on all aspects of design.

MSME group with Director, Dean and HoD

❖ ENGINEERS DAY

The Department of Electronics and Communication Engineering has conducted an event on the occasion of "**National Engineers Day**" for awareness on importance of engineers to the society. As a part of event, the department had conducted various activities like Quiz, Elocution, Poster Presentation and Project Expo competitions @ECE Seminar Hall, Second Floor, in which all the students of ECE department comprising of B.Tech. I & IV Year were part of this event.

About 120 students had participated actively in various events conducted on 15th of September, 2023 (Friday). The below mentioned events were conducted keeping in view the education and engineering aspects:

      (i)   **Importance of Engineers Day**

      (ii)   **Importance of ECE towards society**

      (iii)   **Innovations in the field of ECE**

The coordinating team consisted of Faculty coordinators, Judges and student coordinators for each event for easy managing and conduction of the above activities smoothly.

The winners of the competitions were awarded with Certificates and Prizes. The program had given the insights into one's ability, mental thinking, career guidance and importance of Engineers towards the Society.

Prize distribution to Winners by Dean –SoE & Heads of ECE, H&S, CSE & CIVIL Departments

❖ BATHUKAMMA CELEBRATIONS

Bathukamma is a colourful floral festival of Telangana and is celebrated by womenfolk with exotic flowers of the region. The festival has over the years became a symbol of Telangana culture and identity. Bathukamma comes during the latter half of monsoon, before the onset of winter. An auspicious day Bathukamma was celebrated on 18 Oct 2023 in the college.

ORIENTATION PROGRAMME

A student Induction Program was conducted for the II B.Tech Lateral Entry students on 04 OCT, 2023. In induction program head and faculties of the department addressed the students and explained about the role and importance of the electronics branch for their career growth.

HoD, ECE addressing the gathering

6.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. **Ms.Anuradha K,**Assistant Professor, ECE, has delivered a topic on "KUBERNATES USING IOT". Kubernetes has become the de-facto standard container orchestration framework for cloud-native deployments. Development teams have turned to Kubernetes to support their migration to new microservices architectures and a DevOps culture for continuous integration and continuous deployment.

At the same time, many organizations are going through a digital transformation process. Their goal is to change how they connect with their customers, suppliers and partners. These organizations are taking advantage of innovations offered by technologies such as IoT platforms, big data analytics, or machine learning to modernize their enterprise IT and OT systems. They realize that the complexity of development and deployment of new digital products require new development processes. Consequently, they turn to agile development and infrastructure tools such as Kubernetes.

2. **Mr.A.Aravind,** Assistant Professor, ECE, has delivered a topic on "OTFS SYSTEM". **Orthogonal Time Frequency Space** (**OTFS**) is a 2D modulation technique that transforms the information carried in the Delay-Doppler coordinate system. The information is transformed in the similar time-frequency domain as utilized by the traditional schemes of modulation such as TDMA, CDMA, and OFDM. It was first used for fixed wireless, and is now a contending waveform for 6G technology due to its robustness in high-speed vehicular scenarios.

7.Alumini

	Hello, I'm Neha working at Tech Mahindra for Salesforce as Technical Associate. I'm 2023 passed out. Nalla Narasimha Reddy College is the Best one. Anchoring, Singing and performing with fellow students not only brought joy and creativity into my daily routine but also helped me for me lasting friendships, rehearsals and prompting jam sessions brought a sense of camaraderie and spontaneity that defined my college years. These musical adventures provided a perfect balance to the academic rigors, making my college life truly enjoyable and unforgettable. Thanks for the college for all these memories
	Hello, I'm Aditi Reddy from ECE dept, 2023 passed out. Currently working in Tech Mahindra as a Techfore analyst for salesforce project. To be honest my College life was a turning point for me. The entire four years of my graduation was like an opportunity for me to paint my future. I remember all those assignments, lectures ,Viva ,projects ,attendance ,insem ,endsem ,placements too much but i will miss people whom i met here all the memories with them good or bad ,bitter or sweet whatever its now a part of me. Technically NNRG made me more potent, profound, independent and participating in fests and events was really a fun and now this made me very confident to face challenges.

WISHING YOU ALL SUCCESS AND GOOD HEALTH!