



Nalla Narasimha Reddy  
Group of Institutions  
**NNRG**  
Integrated Campus

**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.

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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**



***NNRG EC Technocrats Ornate Report  
NECTOR  
2023-24  
(MAY-JUNE)***

## SCHOOL OF ENGINEERING

### DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

#### 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's VISION AND MISSION

##### **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.

## EDITORIAL BOARD

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### **Editors:**

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- ❖ **Dr. S. KARTHICK**, *Assistant Professor*
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- ❖ **Mr. C. SHIVA SEVARTHI**, *IV-ECE*



DEPARTMENT OF ELECTRONICS &  
COMMUNICATIONS ENGINEERING

## NNRG EC Technocrats Ornate Report

**NECTOR**

**2023-24**

### ***Index***

<b><u>Sl.No</u></b>	<b><u>Contents</u></b>	<b><u>Pg.No.</u></b>
1	Salient Features	02
2	Department Events	03
2.1	Management Development programme	03
3	Faculty Achievements	06
3.1	Publications- Journals & Patents	06
3.2	Achievements	07
3.3	FDP's attended and NPTEL Certifications	07
4	Students' Achievements	10
4.1	Student Development Programme	10
4.2	Students' Publications	30
4.3	2024 Rank Holders	35
5	Placements	36
6	Events	36
7	Alumni	40

# **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, lifesaving 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 fiber 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 0 from the year 2019. PG Programme in M.Tech with specialization VLSI & Embedded Systems is approved by AICTE for the academic year 2013-14, with an intake of 18. Faculty of the department are 32 in number out of them 8 are doctorates, and 12 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.

The software's and major Equipment that are available in the department are:

- Cadence EDA Tool
- MATLAB-2014b and Tool Boxes (Simulink, Image Processing, Communication, SignalProcessing 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 IETE Webinar

#### ➤ AI: Unlocking the Driving Force Behind the Metaverse Revolution

The IETE has organized a Knowledge Sharing Session (KSS) on "AI: Unlocking the Driving Force Behind the Metaverse Revolution" on 12-06-2024 in Jio Meet App.

Dr. S. Ravi Chand, Head of ECE Department acted as the resource person explained about the concept of the Metaverse, a virtual universe that merges physical and digital realities, has been gaining significant attention and momentum. Central to the development and proliferation of the Metaverse is the role of Artificial Intelligence (AI). The synergy between AI and the Metaverse is unlocking new possibilities and driving the evolution of this virtual universe. As AI continues to advance, it will further enhance the capabilities and experiences within the Metaverse, making it a more immersive, interactive, and inclusive digital reality. The revolution of the Metaverse, powered by AI, is not just a technological advancement but a fundamental shift in how we interact with digital worlds.



Glimpses of program  
3

## ➤ Challenges and Opportunities: Navigating the Implementation of NEP 2020

School of Pharmacy at NNRG organized a one-week FDP on “Transforming Higher Education -NEP-2020(THENEP-2020)” from 20.05.2024 to 25.05.2024 to enlighten the faculty and students.

Dr. S. Ravi Chand, Head of ECE Department acted as the resource person, explained about “Challenges and Opportunities: Navigating the Implementation of NEP 2020” on 20.05.2024. He emphasized the importance of teacher training and continuous professional development. Ensuring that all teachers receive adequate training to implement new pedagogical methods, assessment techniques, and technology integration will be a significant challenge, especially in remote and rural areas.

Overall, while implementing NEP 2020 poses several challenges, it also presents opportunities for transformative change and improvement in the Indian education system, ultimately aiming to make education more inclusive, holistic, and responsive to the needs of the 21st century.



*Glimpses of program*

## ➤ ISTE Decennial Celebration

Our NNRG ISTE Chapter was inaugurated in 2014. As per the instructions from ISTE, New Delhi, NNRG has celebrated the decennial year on 21.05.2024







*Glimpses of program*

### ➤ Opportunities in Railways

IIC organized a session on opportunities in Railways in NNRG on 15-06-2024 in auditorium for final and prefinal year of NNRG students. This was hoisted jointly by ECE department IIC and GBH rail services.

GBH rail services is a pioneering organization founded on 16th June 2016 by a group of highly skilled Technocrats with extensive experience in Indian Railways and international railway networks. GBH Rail Services Pvt Ltd (GBH), is a trusted partner for building comprehensive rail infrastructure solutions for both domestic and international railways. This company offers a wide range of products and services that cater to various railway needs, ensuring efficient and reliable transportation systems.

Mr. Balaji CEO of GBH rail services and offered the free training of 100 hours for NNRG students. After successful training assured an employment opportunities in railways through their consulting mechanism in multinational and national companies.



*Glimpses of program*

### **3. FACULTY ACHIEVEMENTS**

#### **3.1 Publications - Journals, Conferences & Patents**

- ❖ M. Sahaya Sheela, **S. Ravi Chand**, S. Gopalakrishnan, Shruti Bhargava Choubey, M Gopi Anand, J. Jasmine Hephzibah published a paper on “Empowering Aquarists a Comprehensive Study on IOT-Enabled Smart Aquarium Systems for Remote Monitoring and Control” Name of the journal: Babylonian Journal of Internet of Things Vol.2024, pp. 33–43.
- ❖ T. Kavitha, M. Venkatesan , S. Gopalakrishnan, **S. Ravi Chand**, M Gopi Anand, S. Abirami published a paper on “Underwater Wireless Sensors Increase Routing Performance using Impact Efficient localization-based Routing protocols” Name of the journal: Babylonian Journal of Internet of Things Vol.2024, pp. 69–77 ,doi.org/10.58496/BJN/2024/008.
- ❖ **Lavanya Nalla, Aleti Vinay Kumar, A Sanjana, Baddam Ramnivas** published a Scopus indexed paper "Deep learning based human Action Recognition using MSR Action -3D Data Set" in International Conference on Engineering and Advancement in Technology 2024 at Malla Reddy Institute of Engineering & Technology on 21/06/2024
- ❖ **Dr. Ravi Bolimera, Dr. Ravi Chand Sankuru , Rambabu Kambhampati, Swetha Tarigoppula , Battula Manushree, Erukala Revanth Goud, Dharmishetti Mani Kumar** published a patent entitled "Developing a Python OpenCV-Based System to Detect Driver Drowsiness" with the application no: 202441042768 on 6/6/2024
- ❖ **U.Bharadwaja, Vulasala Neelavathi**, “High Speed and Area Optimized VLSI Architecture of Probability Based Approximate Multiplier” Name of the journal: Industrial Engineering Journal, Indexed By: UGC, ISSN 0970-2555, Volume:53, Issue 5, page : 302-317, Date of publication:5/5/2024
- ❖ **Lavanya Nalla, P Nikitha, Kumbam Sruthi, Puli Gopichand** published a Scopus indexed paper on "V2V SYSTEM CONGESTION CONTROL VALIDATION AND PERFORMANCE USING CAN COMMUNICATION" in "International Conference on Engineering & Technology 2024" in Malla Reddy College of Engineering & Technology,21/6/2024.
- ❖ B Venkataramana, K Padmavathi, T Annamani, **C V Krishna Reddy**, Dr V Sandeep Kumar, **K Madhavi**, Dr P Satyanarayana has patent grant entitled “AI Based Driver Drowsiness Detection Device” with the application no: 412603-001 on 5/24/2024, Page Numbers: 251603, The Patent Office Journal No. 170795
- ❖ **Suresh N, S. Ravi Chand, Rambabu K, Sharath Chandra M, Phanindra C, Abraham Thomas, N. Harshitha Prakriti, O. Manoj Kumar, P. Murari Goud** has filed a patent entitled “Creating a Connected Mirror: Harnessing IoT for Real-Time Applications” with the Application no 202441040707 on 5/25/2024,Page Numbers: 52139-52139.
- ❖ R Harish Kumar, S. Saratha, Dr. M. Chitra, Dr. S. Alagendran, Pravin Kumar Samanta, Dr. D Mahammad Rafi, Shailaja N Uke, Dr. Amit Chauhan, Dr. Dhanusha. C , Mr. Praneta Ravindra Desale,**G Soumya**, Sumithra A ,Published a patent entitled “Advanced Image Analytics : Machine Learning In Cancer detection and segmentation” with the application no: 202441042768 on 6/7/2024, The Patent Office Journal No. 13/2024, Page Numbers. 52139-52139, The Patent Office Journal No. 23/20

## 3.2. Achievements

Ms. K Madhavi has received "NPTEL aspirants" award from IIT Madras on behalf of NNRG College local chapter NPTEL SPoC on 22/06/2024.



## 3.3 FDP's attended and NPTEL Certifications

Sno.	Name of the Faculty	Topic	Organization & Place	Duration
1	Dr. S. RAVI CHAND	Introduction to Industry 4.0 and Industrial Internet of Things	NPTEL, IIT Kharagpur	Jan-April 2024
		Fundamentals of ESG and Sustainable Finance for 2024	Udemy	19-06-2024
2	Dr. S. KARTHICK	Programming In Java	NPTEL, IIT Kharagpur	Jan-April 2024
		Digital Communication using GNU Radio	NPTEL, IIT Bombay	Jan-April 2024
3	Mrs. E. SUNEETHA	Transforming Higher Education - National Education Policy 2020	ISTE Chapter, NNRESGI	20-05-2024 to 25-05-2024
	Dr. SRAVANKUMAR VITTAPU	Data Base Management System	NPTEL IIT Kharagpur	Jan-April 2024
4	Dr. RAVI BOLIMERA	Foundation of Cloud IoT Edge ML	NPTEL, IIT MADRAS	Jan-April 2024
		OBE & NEP2020	PBR VISVODAYA INSTITUTE OF TECHNOLOGY & SCIENCE, KAVALI, and VIT -AP University	10-06-2024 to 14-06-2024
5	Mr.NITESH GAIKWAD	Innovations in VLSI architectures, Soc design and verification	CVR college	30-04-24 to 04-05-24
		NEP 2020 Orientation and Sensitization	UGC Malaviya Mission Teacher Training Program	22-05-24 to 30-05-24
		Recent Trends in Embedded Systems and IoT (RTESIoT-2024)	GMR Institute of Technology	27-05-2024 to 01-06-2024
6	Mrs. K MADHAVI	Research Training	MSME-Technology Development Center (PPDC)	05-13-2024 to 06-13-2024

		AI For Educators	Institute of Public Enterprise	20/05/2024 to 24/05/2024
		Image Processing using Python	IGNOIU, New Delhi	27/05/2024
		Deep Learning	IIT Madras	Jan-April 2024
		The Joy of Computing using Python	IIT Madras	Jan-April 2024
		Teaching and Learning in Engineering	IIT Roorkee	Jan-April 2024
7	Mr. A ARAVIND	Advancements in Next Generation 5G/6G Network Technology	Siddhartha Institute of Technology and Sciences, AICTE- Vaani	13-06-2024 to 15-06-2024
		Deep Dive IoT Technologies and Applications	Laki Reddy Bal Reddy College of Engineering	24-06-2024 to 28-06-2024
8	Mrs. N LAVANYA	Innovations in VLSI Architectures, SoC design & Verification	CVR College of Engineering	30-04-2024 to 04-05-2024
		SoC Designing and Python Productivity using PYNQ-Z2	Coreal Technologies	03-05-2024
		Transforming Higher Education - National Education Policy 2020	ISTE Chapter, NNRESGI	20-05-2024 to 25-05-2024
		Accelerate Research	Anurag University	27-05-2024 to 31-05-2024
		Design of RF & microwave Circuits & Applications	VNR Vignana Jyothi Institute Of Engineering & Technology,	03-05-2024 to 04-05-2024
		OBE & NEP 2020	PBR VITS, VIT-AP University	10-06-2024 to 14-06-2024
		Advancements in 5G & 6G Network Technologies	Sidhartha Institute of Technology and Sciences, AICTE-VAANI	13.06.2024 to 15.06.2024
		Data analytics with python	NPTEL, IIT-Madras	JAN-APRIL 2024
		AI For Educators	Institute of Public Enterprise	20-05-2024 to 24-05-2024
		Probability for Computer Science	NPTEL, IIT-Kanpur	JAN-APRIL 2024
		Introduction to Machine Learning	NPTEL, IIT-Roorkee	JAN-APRIL 2024
9	Mrs. V VENKATA NANDINI	Introduction of Internet of Things	NPTEL, IIT Kharagpur	JAN-APRIL 2024
10	Mrs. G SOUMYA	Transforming Higher Education - National Education Policy 2020	ISTE Chapter, NNRESGI	20-05-2024 to 25-05-2024
		OBE & NEP 2020	PBR VITS, VIT-AP University	10-06-2024 to 14-06-2024
11	Mrs. SWETHA TARIGOPPULA	Affective Computing	IIT DELHI, IIT ROPAR	JAN-APRIL 2024
		Design of RF and Microwave Circuits & Applications	VNR Vignan Jyothi Institute of Engineering & Technology, Dept of ECE	03-05-2024 to 04-05-2024
		AI for Educators	Institute of Public Enterprise (IPE), Hyderabad	20-05-2024 to 24-05-2024
		Fundamentals and	Chaitanya Bharathi Institute of	20-05-2024 to

		Advances of Magnetic Materials (FAMM-2024)	Technology, Hyderabad, India	24-05-2024
		Deep Dive in IOT Technologies and Applications	Lakireddy Bali Reddy college of Engineering	24-06-2024 to 28-06-2024
		Programming in Python	CEC, Dibrugarh University	JAN-APRIL 2024
		Affective Computing	IIT DELHI, IIT MADRAS	JAN-APRIL 2024
12	Mrs. ANURADHA KOTAKADI	Transforming Higher Education-National Education Policy-2020(THENEP)	ISTE CHAPTER, NNRG	20-05-2024 to 25-05-2024
		Accelerate Research	Anurag University	27-05-2024 to 31-05-2024
		OBE&NEP 2020	Internal Quality Assurance Cell-IQAC, PBR VITS, VIT-AP	10-06-2024 to 14-06-2024
		Advancements in Next Generation 5G/6G Network Technology	Siddhartha Institute of Technology and Sciences, AICTE- Vaani	13-06-2024 to 15-06-2024
		12Deep Dive IoT Technologies and Applications	Laki Reddy Bal Reddy College of Engineering	24-06-2024 to 28-06-2024
		NBA Accreditation and Teaching and Learning in Engineering (NATE)	NPTEL, IISc Bangalore	JAN-APRIL 2024
13	Mrs. SHIVA PRASANNA KANNAGULLA	Transforming Higher Education-National Education Policy-2020(THENEP)	ISTE CHAPTER, NNRG	20-05-2024 to 25-05-2024
		Advancements in data Science: Exploring Cutting - Edge Techniques & it's Applications	Amity University	27-05-2024 to 31-05-2024
		OBE&NEP 2020	Internal Quality Assurance Cell-IQAC, PBR VITS, VIT-AP	10-06-2024 to 14-06-2024
		Introduction to Industry 4.0 and Industrial Internet of Things	NPTEL IIT Kharagpur	JAN-APRIL 2024
14	Mr. K. SRINIVAS	"Innovations in VLSI Architectures, SoC Design and Verification "	CVR College of Engineering	30-04-2024 to 04-05-2024
15	Mr. U BHARADWAJA	Transforming Higher Education-National Education Policy-2020(THENEP)	ISTE CHAPTER, NNRG	20-05-2024 to 25-05-2024
		OBE&NEP 2020	Internal Quality Assurance Cell-IQAC, PBR VITS, VIT-AP	10-06-2024 to 14-06-2024
16	Mrs.V NEELAVATHI	AI for Educators	Institute of Public Enterprise (IPE), Hyderabad.	20-05-2024 to 24-05-2024
		Transforming Higher Education- National Education Policy-2020 (THENEP-2020)	ISTE Chapter, NNRG in Association with APTI, Telangana	20-05-2024 to 25-05-2024
		OBE&NEP 2020	Internal Quality Assurance Cell-IQAC, PBR VITS, VIT-AP	10-06-2024 to 14-06-2024

## 4. STUDENTS' ACHIEVEMENTS

### 4.1 Student Development Programme

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 II B. bTech ECE Students from 10<sup>th</sup> – 15<sup>th</sup> June 2024.

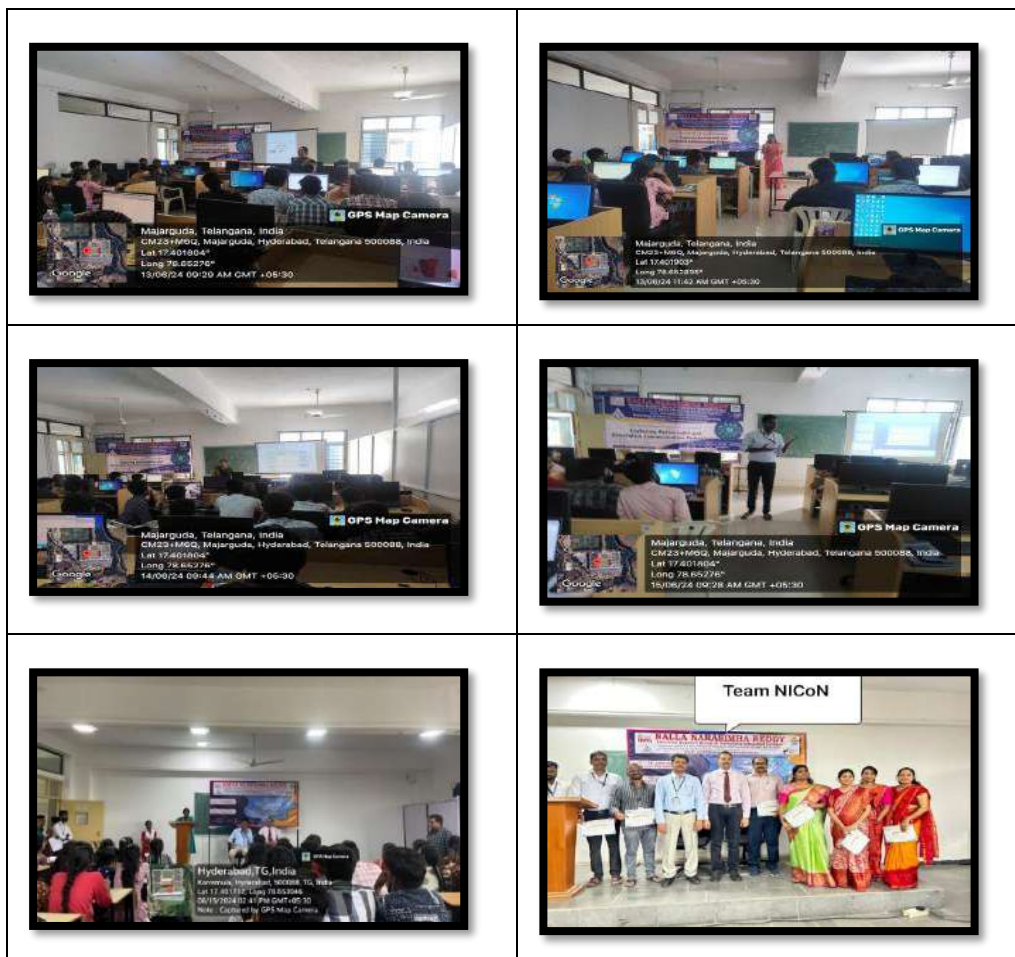
Following are the Groups

#### Team NICO: Exploring Optimizable and Generative Communication Technologies

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, Simulink, image processing 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, wireless communication, LIFI technology, Antenna design, Simulink usage for communication and Image processing toolboxes. As an outcome of the workshop, the students are able to develop programming code, process of communication, Antennas design and simulation. Totally 49 students were participated in the workshop. **Mr. Aravind** and **Mrs. K.Anuradha** worked as Faculty Coordinators for the One week workshop.





*NiCoN Research group with Director, Dean and HoD*

S.No	Roll Number	Name of the Student
1	227Z1A0401	ABHISHEK GUPTA
2	227Z1A0407	A. ANIL
3	227Z1A0409	A. ABHILASH
4	227Z1A0411	B. ARUN
5	227Z1A0412	B.SAI KRISHNA
6	227Z1A0415	B. RAJU
7	227Z1A0418	B. BHAVYASRI
8	227Z1A0422	B. BHOOMIKA
9	227Z1A0426	B. MANISHA
10	227Z1A0428	C.VEDAVYAS
11	227Z1A0430	CH. SHIVANI
12	227Z1A0447	D.OMKAR
13	227Z1A0453	G.SRI CHARAN GOUD
14	227Z1A0455	G. LAXMIPRASANNA

15	227Z1A0457	G.SAI PRANEETH GOUD
16	227Z1A0463	I.ANJALI
17	227Z1A0466	J. AJAY
18	227Z1A0480	K. TEJASWI
19	227Z1A0482	K. SRIRAM REDDY
20	227Z1A0495	M.PRANAY
21	227Z1A0497	L.VISHNU
22	227Z1A04A1	M.SAI.KUMAR
23	227Z1A04A5	M.DURGA PRASAD
24	227Z1A04A6	M.SRUTHI
25	227Z1A04A9	M.BUNNY NAIK
26	227Z1A04B0	M.PAVAN
27	227Z1A04B4	N. MANIDEEP REDDY
28	227Z1A04B9	P. CHANDRA SHEKAR
29	227Z1A04C0	P. JESHWANTH
30	227Z1A04C4	P. NAGARAJU
31	227Z1A04D3	D.VIMAL KOWSHIK
32	227Z1A04D6	P. RAJU
33	227Z1A04D8	PRAVEEN KUMAR
34	227Z1A04E1	P. KARTHIK
35	227Z1A04F0	R. BHARGAVI
36	227Z1A04F2	R.SAI.SIDDHARTHA
37	227Z1A04F3	R. UDAY KIRAN
38	227Z1A04F8	S. MALLIKARJUN REDDY
39	227Z1A04G6	S. VIVEK SAI
40	227Z1A04H0	K. THIRUMALAMMA
41	227Z1A04H2	T. SAKETH VARMA
42	227Z1A04H4	V.PRAVEEN KUMAR
43	227Z1A04H3	U. BHARGAVI
44	227Z1A04I5	V.CHANDRASHEKAR
45	227Z1A04G0	S. SANDEEP
46	237Z5A0401	A. SRUTHI
47	237Z5A0410	K.VIDYA SAGAR
48	237Z5A0418	SK. KHADEER
49	237Z5A0420	T. VIKRAM REDDY



## Best Performers of SDP

S.No	Roll Number	Name of the Student
1	237Z5A0420	T. VIKRAM REDDDY
2	227Z1A0430	CH. SHIVANI
3	227Z1A0480	K. TEJASWI
4	227Z1A0428	C.VEDAVYAS
5	227Z1A0401	ABHISHEK GUPTA
6	227Z1A04A6	M.SRUTHI

## Team NEION: Unveiling Embedded Essentials

The aim of this workshop is to provide an insight on importance of Embedded Systems & IoT for student development in the field of microcontrollers, PROTEUS, ARDUINO IDE, IoT cloud, Raspberrypi Modules 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 ARDUINO coding, PROTEUS Simulation, Python programming, sensors, actuators interfacing, Raspberry pi and IoT toolboxes. As an outcome of the workshop, the students are able to develop program code, process of Making Embedded Real time projects and IoT .Totally 50 students were participated in the workshop.

**Mr. B SAIDULU** and **Mrs. NITESH GAIKWAD** worked as Faculty Coordinators for the One week workshop.





*NEIoN Research group with Director, Dean and HoD*

S.No	Roll Number	Name of the Student
1	217Z1A0428	GANJI SAI GANESH
2	227Z1A0402	ADDANKI LAKSHMI SAI KUMAR
3	227Z1A0403	ADEPU SRINATH
4	227Z1A0404	ALLAMNENI SAI CHANDHANA
5	227Z1A0406	AMMA DHARANI
6	227Z1A0413	BAIROLLU HEMANTH KUMAR
7	227Z1A0421	BETHELLI VINAY REDDY
8	227Z1A0427	BUTHOJI RAVI TEJA
9	227Z1A0438	DHARAVATH PRAVEEN
10	227Z1A0439	DAMERA YASHWANTH
11	227Z1A0441	DEVARA YASHWANTH
12	227Z1A0449	DURGAM KOUSHIK
13	227Z1A0451	ERROLLA SRINIDHI
14	227Z1A0454	GADIPALLY POOJA
15	227Z1A0459	GOVINDHU GARI LIKITHA
16	227Z1A0468	JILLA SAI CHANDANA
17	227Z1A0470	KAKARLA PRASAD
18	227Z1A0474	KAMPATI PANI KUMAR
19	227Z1A0475	KANDADI SAI NIHITHA
20	27Z1A0477	KANNEKANTI SOMASHEKARACHARY
21	227Z1A0479	KARRE SRIKANTH
22	227Z1A0481	KASOJU RAMYA SRI
23	227Z1A0489	KOTHAKONDA AKSHAYA
24	227Z1A04A8	MOHAMMAD AFREEN
25	227Z1A04B1	NALLA VIGNESH REDDY
26	227Z1A04B3	NAMIREDDY MOUNI
27	227Z1A04B5	NARRA YASHWANTH REDDY
28	227Z1A04B6	NARRI RATHISH

29	227Z1A04C6	PALLAVI VUPPALA
31	227Z1A04C7	PANGA MANISHA
32	227Z1A04C9	PANJAVENI HIMAVARSHA
33	227Z1A04D5	PINJALA CHANDANA
34	227Z1A04E2	PULUSU RAKESH
35	227Z1A04E3	RAJULAPATI PAVAN KUMAR
36	227Z1A04E8	RAPOLU VINAY TEJA
37	227Z1A04F1	RENDLA SATHWIKA
38	227Z1A04F6	SALENDRI SHIVA KUMAR
39	227Z1A04F7	SALENDULA MADHUKAR
40	227Z1A04G4	SHIVARATHRI ASHOK
41	227Z1A04G5	SINGAM VARUN
42	227Z1A04I0	VARRE MATHSYAGIRI
43	227Z1A04I1	VATTE KARTHIK
44	227Z1A04I2	VATTELA VAISHNAVI
45	227Z1A04I4	VIDHYA SREE BANTU
46	227Z1A04I7	VUPPALA KARTHIK
47	227Z1A04I9	YABAJI VINAY
48	227Z1A04J0	YASARAM MADHAVI
49	227Z1A04J1	YELLIPEDDI RAMYA

### Best Performers of SDP

S.No	Roll no	Name
1	227Z1A04C6	PALLAVI VUPPALA
2	227Z1A0449	DURGAM KOUSHIK
3	227Z1A0404	ALLAMNENI SAI CHANDHANA
4	227Z1A04C7	PANGA MANISHA
5	227Z1A04G4	SHIVARATHRI ASHOK
6	227Z1A0402	ADDANKI LAKSHMI SAI KUMAR

### Team NESIP: Image Processing Applications using Python & MATLAB

The aim of this workshop is to provide an insight on importance of MATLAB and Python 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 47 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, process image, audio and speech.

**Mrs. K. MADHAVI, Mrs. E. SUNEETHA**, acted as Faculty Coordinators for the six day SDP.



NESIP Research group with Director, Dean and HoD

S.No	Roll Number	Name of the Student
1	227Z1A0408	ANUGUTHALA MAHENDAR
2	227Z1A0410	ARURI SINDHU
3	227Z1A0414	BALTHA ABHISHEK
4	227Z1A0419	BAYYA MAHESH
5	227Z1A0425	BORELLI SANJAY KUMAR
6	227Z1A0429	CHEEKATIMALLA MANEESH
7	227Z1A0432	CHILUVERI SAMPATH
8	227Z1A0440	DASARI SAI MANOJ REDDY

9	227Z1A0442	DEVARAKONDA PRANAY KUMAR
10	227Z1A0444	DHARAVATH GYAN SINGH
11	227Z1A0446	DIDDI RUTHVIK
12	227Z1A0452	ERUMALLA RAKESH
13	227Z1A0456	GANTA KARTHIK
14	227Z1A0458	GOROJU SAI NIKHIL
15	227Z1A0460	GUGGILA CHARITHA
16	227Z1A0464	JAI SAGAR KADAMANCHI
17	227Z1A0467	J.VENU PRASAD REDDY
18	227Z1A0473	KAMBHAM AKSHITHA
19	227Z1A0476	KANDALA RUSHYANTH
20	227Z1A0484	KEMIDI KALYANI
21	227Z1A0494	KUNDURU VIVEK REDDY
22	227Z1A0498	MAILARAPU SRAVIKA
23	227Z1A04A0	MALYALA NAVEEN
24	227Z1A04B2	NALLABOTHU GOPICHANDU
25	227Z1A04B8	NITTURI AKSHAY PATIL
26	227Z1A04C5	PALAKURTHI RAKESH
27	227Z1A04C8	PANJALA AVANTH KUMAR
28	227Z1A04D0	PANNALA CHARAN TEJA
29	227Z1A04D1	PASUNUTI SAIRAM
30	227Z1A04D2	PASUPULETI SAI KRISHNA
31	227Z1A04D7	POTHAGALLA RAKESH
32	227Z1A04D9	POTHUGANTI SHIVA SAI
33	227Z1A04E0	PULAGAM AMULYA
34	227Z1A04E4	RAMANCHA MOUNIKA
35	227Z1A04F4	RYAKALA SHRAVANI
36	227Z1A04G1	SHAIK SALMAN
37	227Z1A04G2	SHAIK YAKUB PASHA
38	227Z1A04H8	VANAM VISHNU VARDHAN
39	227Z1A04I3	VAVILALA ANKITH KUMAR
40	237Z5A0402	ATIPAMULA SHIVA KUMAR
41	237Z5A0403	CHATRAGADDA SWETHA
42	237Z5A0404	DUMMU KOWSIK
43	237Z5A0406	GADDAM VENU
44	237Z5A0408	INDRAKANTI ANU
45	237Z5A0412	NALLA HARSHITHA

46	237Z5A0414	POLE KIRAN KUMAR
47	237Z5A0416	SHADA REVATHI

### Best Performer of SDP

S.No	Roll Number	Name of the Student
1	227Z1A04I3	V.ANKITH KUMAR
2	237Z5A0403	CHATRAGADDA SWETHA
3	227Z1A04G1	SHAIK SALMAN
4	227Z1A0464	K.JAI SAGAR
5	237Z5A0416	SHADA REVATHI
6	227Z1A0498	MAILARAPU SRAVIKA

### TEAM NIVAG: Logic Synthesis using Verilog HDL on FPGA

This workshop aims to provide insight into the importance of Xilinx-Vivado Software and its related tools for student development in the field of VLSI Design. The workshop comprises of theoretical lectures and demonstrations of the software and Design Implementations by department faculties.

The students got exposure to Verilog coding and design Implementation on FPGA boards. As an outcome of the workshop, the students can develop programming code, can implement them on FPGA Boards. They can able to simulate and synthesis.

Totally 50 students participated in the workshop. **Ms.Lavanya Nalla & Ms.K.Shiva Prasanna**, worked as Faculty Coordinators for this workshop.





*NIVAG Research group with Director, Dean and HoD*

S.No	Roll Number	Name of the Student
1	217Z1A0490	TAYYALA HEMANTH
2	227Z1A0405	ALLE SHREYA
3	227Z1A0416	BANOTH SANTOSH
4	227Z1A0417	BANOTHU NITHIN
5	227Z1A0420	BEHARA HARSHA VARDHAN
6	227Z1A0423	BOINI MADESH
7	227Z1A0424	BOLISHETTI VASUDEVA RAO
8	227Z1A0433	CHITTEPU MAHESH REDDY
9	227Z1A0434	CHITTI REDDY KALYAN REDDY
10	227Z1A0435	CHITTIMALA GIRI BABU
11	227Z1A0436	D MAHESH
12	227Z1A0443	DEVARAKONDA VAISHNAVI
13	227Z1A0448	DUBBAKA SRIJA GOUD
14	227Z1A0450	ELUKAPALLY RAVI TEJA
15	227Z1A0462	HAZARI DIVYANI
16	227Z1A0469	JINNA NEELIMA
17	227Z1A0471	KALLAKUNTA INDHU
18	227Z1A0478	KANUKU SIDDHARTHA
19	227Z1A0483	KAVALI MANISH KUMAR YADAV
20	227Z1A0485	KESAGANI SHIVA
21	227Z1A0488	KOTHA PRASHANTH

22	227Z1A0490	KOTHI SOWMYA
23	227Z1A0491	KOYYADA VAMSHI KIRAN
24	227Z1A0492	KUKKADUVVA ANVARSHA
25	227Z1A0493	KUKKALA SHIVA REDDY
26	227Z1A0496	LAKKAM VAMSHI
27	227Z1A0499	MALLEBOINA UMESH
28	227Z1A04A3	MARELLA MADHUKAR
29	227Z1A04C1	PADAKANTI VINAY KUMAR REDDY
30	227Z1A04C3	PAGIDIMUNTHALA VARA PRASAD
31	227Z1A04D4	PININTI NANDITHA
32	227Z1A04E5	RAMANOLLA PRASANNA
33	227Z1A04E6	RAMINENI AKHILA
34	227Z1A04E7	RAMPALLY RAKESH GOUD
35	227Z1A04E9	RAVULAKOLA SANDEEP
36	227Z1A04F5	S VISHWANATH
37	227Z1A04F9	SEELAM SREE RAMA DEVI
38	227Z1A04G3	SHANIGARAPU SAIKIRAN
39	227Z1A04G7	SUNKOJU KARTHIKEYA
40	227Z1A04G8	RETAIL POOJITHA REDDY
41	227Z1A04G9	THAMMALA REVATHI
42	227Z1A04H5	VADNALA SRINIJA
43	227Z1A04H7	VALUROUTHU SIREESHA
44	227Z1A04I8	WARLE PAVAN
45	237Z5A0407	GANGANABOINA SHIVA KUMAR
46	237Z5A0409	IRAVENI CHAITANYA RAO
47	237Z5A0411	LAKKAM SRIVIDYA
48	237Z5A0413	PATHURI KEERTHI

### Merit and Best Performer of SDP

S.No	Roll no	Name
1	227Z1A0496	LAKKAM VAMSHI
2	237Z5A0413	PATHURI KEERTHI
3	227Z1A0423	BOINI MADESH
4	227Z1A0448	DUBBAKA SRIJA GOUD
5	227Z1A0443	DEVARAKONDA VAISHNAVI
6	237Z5A0419	SINGAPAGA BHARATH



### III YEAR SDPS'

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 III B.Tech ECE Students from 18<sup>th</sup> – 22<sup>th</sup> June 2024.

Following are the Groups

### TEAM NiCoN:Unleashing the potentials of communication techniques:A Design approach

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, Simulink, image processing 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, wireless communication, LIFI technology, Antenna design , Simulink usage for communication and Image processing toolboxes. As an outcome of the workshop, the students are able to develop programming code, process of communication, Antennas design and simulation.

Totally 42 students were participated in the workshop. **Mr. N.Raju, Mr.Prashanth Kulkarni** and **Mrs.T.Swetha** worked as Faculty Coordinators for the One week workshop.





*NICoNResearch group with Director, Dean and HoD*

S.No	Roll Number	Name of the Student
1	217Z1A0462	LINGALA SHIVANI
2	217Z1A0437	GUNDARAPU SAI SURYA
3	217Z1A0426	GADE SRAVAN KUMAR
4	217Z1A0440	GURIJALA SRIJA
5	217Z1A0434	GOUNDI SAGAR
6	217Z1A0435	GUDDETI YASHWANTH
7	217Z1A0452	KATIKOLA SWAPNA
8	217Z1A0415	B. NANDEESHWAR REDDY
9	217Z1A0408	BALLI GAGAN
10	217Z1A0454	KATKURI SUMAJA
11	217Z1A0458	KOHEDA RAVI TEJA
12	217Z1A0443	JILLALA SAITEJA
13	217Z1A0423	EEGA KALYANI
14	217Z1A0412	BELLIDIGE SAMYUKTHA
15	207Z1A0469	KAVATI SIDDHARTH
16	217Z1A0489	TANISHQ JOSHI
17	227Z5A0416	BERUKUTI SRIKANTH
18	227Z5A0407	ARROLLA ABHIJITH
19	217Z1A0499	YACHARENI BHARGAVI
20	227Z5A0411	BADENGULA BHANU PRAKASH
21	227Z5A0420	BONTHALA MAHESH
22	217Z1A0473	NELLUTLA VIVEK
23	227Z5A0413	BATHINI ARUN KUMAR
24	217Z1A0491	TELLA SHIVAJI REDDY
25	217Z1A0492	THETTE TRISHA
26	217Z1A0476	PANIKANTI VIJAYKANTH REDDY
27	217Z1A0488	TALLA SRIRAM

28	227Z5A0472	SHETTI PAVAN KALYAN
29	227Z5A0442	KONKA VAMSHI
30	227Z5A0426	DONTHAGOUNI VAIBHAV GOUD
31	227Z5A0435	JANAGAM SAI MAHESH
32	227Z5A0466	PADAKANTI VIDHATRI
33	227Z5A0441	KENCHACHANDRA KANTH
34	227Z5A0428	ERABATHINI HARSHINI
35	227Z5A0471	SADHU GIRINDAR
36	227Z5A0429	G MANISH
37	227Z5A0462	NAKKARAMAYANA VAMSHI
38	227Z5A0459	MUDAVATH SAMPATH
39	227Z5A0481	VAVILALA HITHESH
40	227Z5A0475	TAGARAPU SANDHYA
41	227Z5A0461	MUNAGALA SREENIVASULU
42	227Z5A0431	GOSKULA NITHISH KUMAR

### Best Performer of SDP

S.No	Roll no	Name
1	227Z5A0428	E.HARSHINI
2	227Z1A0489	TANISHQ JOSHI
3	227Z5A0435	J.SAI MAHESH
4	227Z5A0426	D.VAIBHAV GOUD
5	227Z1A0458	K.RAVI TEJA
6	227Z1A0434	G.SAGAR

### TEAM NEION : WISE ON-BOARD IoT DEVISERS

This program was organized for the students of prefinal year for getting help and motivation to their learning and doing for practical exposure into projects. The main purpose intention was to motivate to create the awareness and understanding of boards and programming, which use the blend of IoT and other connecting solutions.

A strength of 42 participants of 14 batches had actively involved and participated in all the sessions of program. **Mr. Koustubh Kulkarni & Mr. M. Sharath Chandra** worked as Faculty Coordinators for the one week workshop.



*NEIOn Research group with Director, Dean and HoD*

S.No	Roll Number	Name of the Student
1	217Z1A0461	K.PRAKASH REDDY
2	217Z1A0422	E ANJALI
3	217Z1A0459	KORMI ARAVIND
4	217Z1A0417	CHALAMALA SAHITHI
5	217Z1A0409	BANDA VINEELA
6	217Z1A0457	KODELA ROHAN
7	217Z1A0403	AKUTHOTA SATHWIK
8	217Z1A0455	KEMIDI SHIVANI
9	217Z1A0441	JANGAM BHAVMIK REDDY
10	217Z1A0446	K MALLIKHARJUN
11	217Z1A0421	DUDEKULA RAFI
12	217Z1A0439	GUNTI VAMSHIDHAR REDDY
13	217Z1A0411	BATHULA LIKHITHA
14	217Z1A0436	GUDUGUNTLA SAI KIRAN

15	217Z1A0451	KATHULA BHARATH KUMAR
16	217Z1A04A3	BALUPUNURI AJAY REDDY
17	227Z5A0422	CHOLLANGI SAI KIREETI
18	227Z5A0410	ASARI RAJASHEKAR
19	227Z5A0417	BICKUNDA CHETAN RAJ
20	217Z1A0485	SATTU ABHILASH REDDY
21	227Z5A0415	BELLI ANJANSENA GOUD
22	217Z1A0486	SHAIK SHANAVAZ
23	217Z1A0472	NEKKONDA TEJA
24	227Z5A0412	BARAPATI RAJASHEKAR
25	227Z5A0406	ARIGELA ROHITH
26	227Z5A0419	B. CHARAN KUMAR
27	217Z1A0481	PUTTI ASHOK
28	227Z5A0478	TILETI NIKHITHA
29	227Z5A0477	THALLAPALLI SAI KUMAR
30	227Z5A0427	EARLA GANESH
31	227Z5A0450	MAISA RACHANA
32	227Z5A0473	SHIVARATHRI KAVERI
33	227Z5A0444	KOTTURI RAVIKIRAN
34	227Z5A0455	MEDABOYINA MALLESH
35	227Z5A0480	VANGAPALLI VENKATESH
36	227Z5A0451	MAMINDLA GAYATHRI
37	227Z5A0433	GUNNALA ASREYA
38	227Z5A0467	PASHAM GOVARDHAN
39	227Z5A0449	M. NANDA KISHORE REDDY
40	227Z5A0463	NAKKIRTHA ANUSHA
41	227Z5A0446	LUNAVATH PRABHAS
42	227Z5A0440	KAVYACHANDRA MOUNIKA

### Best Performers of SDP

S.No	Roll no	Name
1	217Z1A0417	CH SAHITHI
2	217Z1A0461	PRAKASH REDDY
3	217Z1A04A3	B.AJAY REDDY
4	227Z5A0412	B RAJASHEKAR
5	227Z5A0450	M RACHANA
6	227Z5A0480	VANGAPALLI VENKATESH

## TEAM NESIP: 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 43 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, process image, audio and speech signals and utilize Machine Learning tools.

**Mr.N.Suresh Reddy, Mr. Abraham Thomas and Mr.Ch.Phanindra** acted as Faculty Coordinators for the five day workshop.

S.No	Roll Number	Name of the Student
1	217Z1A0432	GOLI SAI CHARAN
2	217Z1A0431	GATTU SAI TEJA
3	217Z1A0448	K VISHNU VARDHAN GOUD
4	217Z1A0414	BRAHMANPALLY AMULYA
5	217Z1A0425	GADDA ESHWAR
6	217Z1A0445	K HARSHAVARDHAN REDDY
7	217Z1A0442	JATANGI SHARATH
8	217Z1A0404	ANDE SUPRIYA
9	217Z1A0401	AELLA SANJAYDER REDDY
10	217Z1A0410	BARAJU VINAY KUMAR
11	217Z1A0447	K NAGARAJ
12	217Z1A0449	KAMMARI VARUN
13	217Z1A0482	RASALA ROHINI
14	217Z1A0470	N.YASHWANTH REDDY
15	217Z1A0495	VADAPALLI MURALI KRISHNA
16	217Z1A0471	NEHA REDDY ALVA
17	217Z1A0464	MAHANKALI SREENITYA
18	217Z1A0497	VEMULA BHAVANI
19	217Z1A0474	NOMULA MAHENDER REDDY
20	217Z1A0494	THUDUMU PRADEEP
21	227Z5A0403	A.HEMANTHKUMAR YADAV
22	217Z1A0484	SAI TEJA MANDA
23	227Z5A0414	BEEMAGANI BHAVANI
24	227Z5A0421	BOODIDA AKSHAY
25	217Z1A0475	PAMISHETTI JAYA PRADEEP
26	217Z1A0483	RAVULA SAI KRISHNA

27	217Z1A0467	MOGULAGANI NISHANTH
28	227Z5A0452	MANNEM SAI MADAN SAGAR
29	227Z5A0443	KOTHAGATTU RITESH
30	227Z5A0445	KURELLA MADHU
31	227Z5A0439	KATHULA RAKSHITHA
32	227Z5A0438	KANUKULA SAI KUMAR
33	227Z5A0457	MOHAMMAD SAMAD
34	227Z5A0453	MANTRAWADI SAI MEGHANA
35	227Z5A0458	MOTE ANUSHA
36	227Z5A0479	ULUSU DHARUN RAJU
37	227Z5A0425	DOMALA HEMA
38	227Z5A0432	G. BALAKRISHNA GOUD
39	227Z5A0470	S RITHIN
40	227Z5A0436	KAMBOJU EESRITHA
41	227Z5A0468	PASULA SHYAM SUNDER
42	227Z5A0456	MEDAMONI ANIL
43	227Z5A0447	M VISHNUVARDHAN NAIDU

### Best Performers of SDP

S.No	Roll no	Name
1	<u>227Z5A0445</u>	<u>K.MADHU</u>
2	<u>227Z5A0443</u>	<u>K.RITESH</u>
3	<u>227Z1A0484</u>	<u>M.SAITEJA</u>
4	<u>227Z5A0453</u>	<u>M.SAI MEGHANA</u>

### TEAM NIVAG:VLSI PHYSICAL DESIGN FLOW: RTL to GDS - II

This workshop aims to provide insight into the importance of Xilinx-Vivado and Cadence Software and its related tools for student development in the field of VLSI Design. The workshop comprises of theoretical lectures and demonstrations of the software and Design Implementations by department faculties.

The students got exposure to Verilog coding and design Implementation on FPGA boards. As an outcome of the workshop, the students can develop programming code, can implement them on FPGA Boards. They can able to simulate and synthesis.

Totally 43 students participated in the workshop. **Mrs V.V.Nandini & Mr.K.Ramesh**, worked as Faculty Coordinators for this workshop.



*NIVAG Research group with Director, Dean and HoD*



S.No	Roll Number	Name of the Student
1	217Z1A0430	GATTU SAI CHANDANA
2	217Z1A0450	KATAKAM MANIDEEP
3	217Z1A0424	EPPAPULA KALYAN
4	217Z1A0413	BOLLAM UDAY KUMAR
5	217Z1A0463	LOTLA JAIPAL REDDY
6	217Z1A0427	GADIPALLY GUNAKANTH
7	217Z1A0420	D RAGHU CHANDRA KIRAN
8	217Z1A0407	AVARI SWATHI
9	217Z1A0402	AILA ABHINAY
10	217Z1A0429	GANNU SAIVARDHAN REDDY
11	217Z1A0418	CHEPURI SOWMYA
12	217Z1A0405	ARASANI MACHENDAR
13	217Z1A0460	KUCHANA NIKHIL TEJA
14	217Z1A0456	KHAITHOJ RAKSHITHA
15	217Z1A0438	GUNDEKARI RAJU
16	227Z5A0402	ANGA VASANTH
17	217Z1A0466	MIRYALA VENNELA
18	227Z5A0404	ANNEBOINA VAMSHI
19	217Z1A04A1	YERUKALA NANI
20	217Z1A0469	NANDI SHASHANK
21	227Z5A0423	D ANUSHA
22	227Z5A0418	BIJILI DIVAKAR
23	227Z5A0409	ASAM SAI PRIYA
24	217Z1A0468	MOKILE SIDHU
25	217Z1A0496	VANKA NIKHILA
26	227Z5A0408	ARUKALA SAHITH
27	217Z1A0480	PIDUGU ROHITH KUMAR
28	227Z5A0401	ALLE SHIVUDU
29	217Z1A0487	SUNKARI SURAJ KUMAR
30	217Z1A0479	PENDOTA HARSHAVARDHAN
31	217Z1A04A2	SHAIK SHANAVAZ
32	227Z5A0469	RALLABANDI SHRUTHI
33	227Z5A0424	D PRASHANTH
34	227Z5A0465	NITTALA SESA HARI HARA KUMAR
35	227Z5A0454	MARAMONI SHIVANI
36	227Z5A0448	MADDURI ADARSH REDDY
37	227Z5A0460	MUDDALA NAVEEN
38	227Z5A0434	JAKKULA POOJITHA
39	227Z5A0476	TEEKAREDDY PRASHANTH REDDY

40	227Z5A0437	KANKANALA SHASHI KUMAR
41	227Z5A0464	NARAYANAPALLY CHANDRA MOULI
42	227Z5A0482	YAIDESH SAGARIKA
43	227Z5A0474	SILVERI CHARAN KUMAR

### Best Performers of SDP

S.No	Roll Number	Name of the Student
1	217Z1A0430	GATTU SAI CHANDANA
2	217Z1A0427	GADIPALLY GUNAKANTH
3	217Z1A0429	G.SAIVARDHAN REDDY
4	227Z5A0469	RALLABANDI SHRUTHI
5	227Z5A0454	MARAMONI SHIVANI
6	227Z5A0401	ALLE SHIVUDU

### 4.2 Student Publications

S.No	Roll Number	Name of the Students	Conference/Journal Title Paper/Patent Title Conference Venue
1	207Z1A0443	E.Nikitha Reddy	ICEAT 2024 Efficient design and implementation of a High-speed, low-power multiplier utilizing Malla Reddy Engineering Collaboration with Samarkand State University Uzbekistan and Manipal University College
	207Z1A0442	D.Manvitha	
	207Z1A0440	D.Goureshwar Reddy	
2	207Z1A0403	A.Naveena	ICEAT 2024 A High-Speed VLSI Architecture Design of Canonical Huffman Encoding and coding Malla Reddy Engineering with Samarkand State University Uzbekistan and Manipal University College
	207Z1A0441	D.Shiva	
	207Z1A0430	C.Sahithi	
	207Z1A0402	S.Abhi Ram	
3	207Z1A0451	G.Chandravardhan Reddy	7th International Conference on Communications and Cyber-Physical- Scopus Design of Efficient Systolic Array G.Narayanamma Institute of Technology and Sciences
	207Z1A0437	D.Akhil Goud	
	207Z1A0414	B.Sanjay	
4	207Z1A0452	G.Varshitha	7th International Conference on Communications and Cyber-Physical <b>Both Scopus and Web of science</b>
	207Z1A0421	B.Thanoj Kumar	

	207Z1A0448	G.Venugopal Reddy	Architecture Multiplier G.Narayanamma Institute of Technology and Sciences
5	207Z1A0439	D.Srutha Keerthi	Patent
	207Z1A0434	D.Jaisai Vardhan	Innovative protection of valuable trees from smuggling
	207Z1A0447	E.Vedaujwala	
6	207Z1A0425	B.Sai Priya	NCCEE – 24
	207Z1A0424	B.Sravani	<b>(Scopus)</b> MQTT Based Industrial Monitoring System Using
	207Z1A0438	D.Umesh	Node MCU ESP8266
7	207Z1A0405	A.Vinay Kumar	ICEAT 2024
	207Z1A0401	A Sanjana	<b>(Scopus)</b> Deep Learning Based Human Action Recognition Using MSR
	207Z1A0410	B.Ramnivas	Action-3d Dataset Malla Reddy Engineering Collaboration with Samarkand State University Uzbekistan and Manipal University College
8	207Z1A0445	E.Aishwarya	NCEERT 24
	207Z1A0423	B.Pravalika	<b>(Scopus)</b>
	207Z1A0422	B.Sairam Chakravarthi	Flood detection and warning system using GSM Bhubaneswar, India
9	207Z1A0413	B.Hindu Priya	ICEAT 2024
	207Z1A0412	B.Anand	Implementation of low power multiplexer using adiabatic logic
	207Z1A0415	B.Praneeth	Malla Reddy Engineering Collaboration with Samarkand State University Uzbekistan and Manipal University College,
10	207Z1A0431	C.Akhila	ICEAT 2024
	207Z1A0409	A.Manoj Kumar	<b>(Scopus)</b> Smart attendance system using face recognition
	207Z1A0406	A.Nishanth	Malla Reddy Engineering Collaboration with Samarkand State University Uzbekistan and Manipal University College
11	207Z1A0417	B.Manu Shree	<b>Patent</b>
	207Z1A0446	E.Revanth Goud	Developing a Python Open CV-Based System to Detect Driver Drowsiness
	207Z1A0436	D.Manikumar	
12	207Z1A0427	C.Thirumala	7th International Conference on Communications and Cyber-Physical
	207Z1A0449	G. Hemakanth	<b>(Scopus)</b>
	207Z1A0450	G.Umeshchandra	IoT Enabled Multi-purpose A9G Based Tracker for Enhanced Monitoring Applications G.Narayanamma Institute of Technology and Sciences

13	207Z1A0432	D Ravali	IJERT Coverage Improvement Using BPSO In WSN MIT Jaipur
	207Z1A0433	D.Deepthi	
	207Z1A0407	A.Sai Rohith Goud	
14	207Z1A0435	D. Sahithi Sai	7th International Conference on Communications and Cyber-Physical ( <b>Scopus</b> ) Design and Implementation of Energy Efficient and Approximate of three Operand Binary Adders G.Narayanamma Institute of Technology and Sciences
	207Z1A0428	C.Chaitanya	
	207Z1A0416	B.Vinay Kumar	
15	207Z1A0456	G.Meghana	ICEAT 2024 ( <b>Scopus</b> ) 5th International Conference or Engineering and Advancement in Technology, Hyderabad Malla Reddy Engineering Collaboration with Samarkand State University Uzbekistan and Manipal University College
	207Z1A0476	K.Nithin	
	207Z1A04A3	P.Dilip	
16	207Z1A0460	G.Chandrika Apoorva	<b>Both Scopus and Web of science</b> GSM/GPRS Based GPS Tracker
	207Z1A0475	K.Neeraj	
	207Z1A0454	G.Yashwanth Reddy	
17	207Z1A0471	K.Laxmi Bhavani	ICCEET Efficient Parallel Self Timed Adder Design for VLSI Applications IITM Delhi
	207Z1A0494	M.Ganesh	
	207Z1A04A0	P.Arun	
18	207Z1A0473	K.Sindhuja Reddy	ICACIA 24 ( <b>Scopus</b> ) Aircraft Recognition Using CNN IITM Delhi
	207Z1A0493	M.Akshith Reddy	
	207Z1A0467	K.Vaibhav Reddy	
19	207Z1A0478	K.Siri Chandana	7th International Conference on Communications and Cyber-Physical ( <b>Scopus</b> ) Design and Implementation of Area-Efficient Reliable Network on Chip Router for Packet Handling G Narayanamma Institute of Technology and Sciences
	207Z1A0489	M.Rohith Vardhan	
	207Z1A0458	G.Naveen Naik	
20	207Z1A0481	K.Ramya	ICEAT 2024 A Multipurpose Agriculture Robot For Automatic Ploughing Seeding & Spraying Malla Reddy Engineering Collaboration with Samarkand State University Uzbekistan and Manipal University College
	207Z1A04A7	P.Harshitha	
	207Z1A0497	N.Revanth Kumar	
21	207Z1A0487	M.Jansi Rani	ICEAT 2024

	207Z1A0477	K.Meghana	<b>(Scopus)</b> Machine Learning Based Enhancement and Detection of Diabetic Retinopathy Imagery Malla Reddy Engineering Collaboration with Samarkand State University Uzbekistan and Manipal University College
	207Z1A0468	K.Shivcharan	
22	207Z1A0496	N.Harshitha Prakeerthi	<b>Patent</b> Creating a Connected Mirror: Harnessing IoT for Real-Time Applications
	207Z1A0499	O.Manoj Kumar	
	207Z1A04A1	P.Murari Goud	
23	207Z1A0465	K.Harika	NCCEE – 24 <b>(Scopus)</b> Smart blind stick with voice alert Bhubaneswar, India
	207Z1A0470	K.Anjith Prasad Rao	
	207Z1A04A5	P.Nithesh	
24	207Z1A0480	K.Thapan Reddy	ICEAT 2024 <b>(Scopus)</b> Palmprint and Cryptanalysis Based Biometric Security System under Deep Learning Malla Reddy Engineering Collaboration with Samarkand State University Uzbekistan and Manipal University College
	207Z1A0461	J.Pranay	
	207Z1A0474	K.Pradeep	
	207Z1A0488	M.Pentam	ICEAT 2024 SMAR Power optimized decoder for short BCH codes in emerging memories Malla Reddy Engineering Collaboration with Samarkand State University Uzbekistan and Manipal University College
	207Z1A0472	K.Anjan Saketh	
	207Z1A0495	M.Vamsi Krishna Reddy	
25	207Z1A04B5	S.Nandhini Reddy	ICCCNT 2024 <b>(Scopus)</b> Lung Cancer Detection Using Deep Learning Algorithm IIT Mandi
	217Z5A0415	M.Sravya	
	207Z1A04B6	S.Srinath	
26	207Z1A04C7	T.Pooja	ICEAT 2024 <b>(Scopus)</b> Wearable technology jacket for tracking person health and safety Malla Reddy Engineering Collaboration with Samarkand State University Uzbekistan and Manipal University College,
	207Z1A04C6	T.Vikranth	
	207Z1A04C4	T.Ediga Sessa Mahesh Goud	
27	207Z1A04D0	V.Niharika	ICEAT 2024 <b>(Scopus)</b> Smart Borewell Child Rescue System through Wireless Monitoring Malla Reddy Engineering Collaboration with Samarkand State University Uzbekistan and Manipal University College,
	207Z1A04B7	S.Sri Vyshalini	
	207Z1A04D5	Y.Ajay	
28	217Z5A0421	S.Shiva Prasad	<b>Patent</b>

	217Z5A0416	M.Naveen Reddy	Comprehensive Aerial Reconnaissance Platform with Enhanced Sensor Technologies
	217Z5A0414	M.Bhargavi	
29	207Z1A04B8	S.Samreen	IJRCT
	217Z5A0409	K.Sri Satya Tanush	<b>(Scopus)</b> Zigbee Controlled Multifunctional surveillance spy robot
	207Z1A04C5	T.Shiva Kumar	Malla Reddy Engineering Collaboration with Samarkand State University Uzbekistan and Manipal University College
30	217Z5A0423	V.Tejasvi	ICEAT 2024
	207Z1A04B2	S.Lakshmi	<b>(Scopus)</b>
	207Z1A04D4	V.Mahender	Development of Fire Fighting Robot Malla Reddy Engineering Collaboration with Samarkand State University Uzbekistan and Manipal University College
31	217Z5A0406	C.Sai Srujana Yadav	ICEAT 2024
	207Z1A04C2	T.Vamshi	<b>(Scopus)</b> Design and implementation of MOSFETs based SRAM using SVL Technique
	217Z5A0407	E.Sravani	Malla Reddy Engineering Collaboration with Samarkand State University Uzbekistan and Manipal University College
32	217Z5A0418	P.Nikitha	ICEAT 2024
	207Z1A04D6	K.Sruthi	<b>(Scopus)</b>
	207Z1A04A8	P.Gopichand	V2V system congestion control validation and performance using CAN Protocol Malla Reddy Engineering Collaboration with Samarkand State University Uzbekistan and Manipal University College
33	217Z5A0412	K.Sayamma	ICEAT 2024
	217Z5A0404	B.Vaishnavi	<b>(Scopus)</b>
	207Z1A04B3	S.Sai Teja	ECG Based Biometric Authentication Using SVM Malla Reddy Engineering Collaboration with Samarkand State University Uzbekistan and Manipal University College
34	217Z5A0405	C.Sneha	ICEAT 2024
	217Z5A04191	K.Rishika	<b>(Scopus)</b>
	217Z5A0410	K.Shivalingam	Intelligent Rover: An IoT Based Smart Surveillance Robotic Car for Military Malla Reddy Engineering Collaboration with Samarkand State University Uzbekistan and Manipal University College
35	207Z1A04D3	Veeram reddy Mahith Reddy	<b>Patent</b> Comprehensive Aerial Reconnaissance Platform with Enhanced Sensor Technologies
	217Z5A0401	Adunuri Ganesh	
	207Z1A04C0	Somi Reddy Amulya	
36	207Z1A04B4	Sarvode Sai Aashrith	ICEAT 2024
	217Z5A0417	Muriki Maniteja	<b>(Scopus)</b> Design and Implementation of Phase Locked Loop using

	207Z1A04C3	Tella Krishna Prasad Reddy	Voltage Controlled Ring Oscillator in 45nm Technology Malla Reddy Engineering Collaboration with Samarkand State University Uzbekistan and Manipal University College
37	217Z5A0408	K Pavan Kumar	ICCCNT 2024 <b>(Scopus)</b> AI Enabled Voice Assistant for Visually Impaired IIT Mandi
	217Z5A0419	Pekkamwar Manasa	
	207Z1A04A9	Puttolu Mahesh	
38	207Z1A04C1	Sreeram Jayakrishna	ICEAT 2024 <b>(Scopus)</b> Virtual Reality Gloves using Arduino and Processing IDE Malla Reddy Engineering Collaboration with Samarkand State University Uzbekistan and Manipal University College
	217Z5A0422	Vadthavath Pranitha	
	217Z5A0413	Koyyani Amrutha Varshini	

### 4.3 2024 RANK HOLDERS

S.No	Roll. No.	Name of the Student	SGPA
1	227Z1A04C6	PALLAVI VUPPALA	9.65
2	227Z1A0404	A.SAI CHANDHANA	9.60
3	227Z1A04C7	PANGA MANISHA	9.50

S.No	Roll. No.	Name of the Student	SGPA
1	217Z1A0482	R. ROHINI	9.27
2	227Z5A0469	R. SHRUTHI	9.27
3	227Z5A0472	S. PAVAN KALYAN	9.18

S.No.	Roll. No.	Name of the Student	SGPA
1	207Z1A0439	D.SRUTHA KEERTHI	8.88
2	207Z1A0443	E. NIKITHA REDDY	8.88
3	207Z1A04C7	T. POOJA	8.88
4	207Z1A04D0	V.NIHARIKA	8.88

## 5. PLACEMENTS

The following IV B. Tech students received the job offers in the academic year 2023-24.

S. No	Name of the Student	Roll Number	Company
1	SOHAIL SAMREEN	207Z1A04B8	Unstring Technology Solutions
2	R. BALAMAİKANTA	207Z1A04B1	Unstring Technology Solutions
3	V. GANESH	217Z1A04D0	Astra Microwave Products LTD
4	A. GANESH	217Z5A0401	Astra Microwave Products LTD
5	K. SAYAMMA	217Z5A0412	Astra Microwave Products LTD
6	V. TEJASWI	217Z5A0423	Astra Microwave Products LTD

## 6. EVENTS

### Farewell Party

A farewell party is a celebration or gathering held to bid goodbye to someone who is leaving or moving away. It is a way to express good wishes and show appreciation for the individuals' time and contributions. It was celebrated on 25 May 2024 (Saturday).



*Glimpses of the Program*



## Outreach Programme

As part of IIC & IIIC for Academic Year 2023-24, faculty and students went to visit Osmania Technology Business Incubator on 30-05-2024.



*Glimpses of Out Reach Program*

## World Environment Day

World Environmental Day, celebrated on June 5th 2024, is a global initiative by the United Nations to raise awareness and promote positive action to protect the environment. It provides an opportunity to engage individuals, communities, and governments to take responsibility for creating a sustainable future.

The theme for World Environmental Day changes annually, highlighting different environmental issues and challenges. It serves as a platform to encourage people to become active participants in protecting nature and addressing environmental concerns.



## Yoga Day

Yoga Day refers to International Day of Yoga, Celebrated on June 21<sup>st</sup> 2024. The theme is **Yoga for Women Empowerment**. The purpose of Yoga Day is to promote and raise awareness about the physical, mental, and spiritual benefits of practicing yoga.

This event was honored by Dr. Chantigari Eswara Reddy Homeopathic doctor and International Yoga teacher. On this auspicious day he initiated spirituality of Budha teaching and encouraged the all the members to perform meditation.



*Glimpses of Yoga Day Celebration*

## Anti-Drug Awareness program

An Anti-Drug Awareness Program is designed to educate individuals, especially young people, about the dangers of drug use and abuse. These programs aim to prevent drug use through various strategies, including education, community involvement, and providing support for those at risk. Students and Faculty went to Jala Vihar to promote about the Anti-Drug on 25.06.2024.



*Glimpses of the Anti-Drug awareness program*

## Industrial Visit

The Department of Electronics & Communication Engineering of Nalla Narasimha Reddy Education Society's Group of Institution, Hyderabad with the support of college management and department staff had organized an Industrial Visit program (1-day program) for B.Tech. (ECE) students of II Year, II-Sem C section on 28th June 2024 (Friday) to 'National Remote Sensing Centre(NRSC)' located at Jeedimetla, Hyderabad.

The Speakers who were Senior Scientists working at NRSC highlighted various aspects of Space Research starting from study, rockets, application & use of Satellite Communication and how it is responsible for remote sensing satellite data acquisition and processing, aerial remote sensing and decision support for disaster management.



*Glimpses of the Industrial Visit*

## 7. ALUMINI



Hello, I am Sai Krishna working at Genpact for content moderation My journey to this professional milestone was shaped by my formative years at NNRG, where I graduated in 2020. During my time there, I cherished every moment of my undergraduate experience, from the invigorating academic pursuits to the vibrant campus life. However, what truly made my college years unforgettable were the profound connections I forged with my peers, many of whom started as strangers but evolved into cherished friends. Together, we navigated the academic challenges, explored our passions, and created enduring memories that I hold dear to this day. Additionally, the supportive relationships I cultivated with faculty members played a pivotal role in my growth and development. Their guidance, mentorship, and unwavering support enriched my educational journey, instilling in me the confidence and skills necessary to embark on my professional career. To my alma mater, NNRG, I extend my deepest gratitude for providing me with a nurturing environment where I could thrive academically, personally, and professionally. The invaluable experiences and lasting friendships I gained will forever hold a special place in my heart.



Hello, I'm Harika working at Smartsoc Solutions as Design Verification Engineer. I'm a 2022 passed out. Nalla Narasimha Reddy Engineering College stands out not only for its academic excellence but also for its vibrant cultural and extracurricular activities that nurture holistic development. My time here was marked by personal growth, meaningful connections, and invaluable experiences that have laid a strong foundation for my career and life beyond college. I am grateful to have been a part of this esteemed institution and cherish the memories and lessons learned during my formative years.

**WISHING YOU ALL SUCCESS AND GOOD HEALTH!**



