

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

**DEPARTMENT OF ELECTRONICS &
COMMUNICATION ENGINEERING**



DEPARTMENT NEWS LETTER

2022-23 (Oct-Dec, 2022)

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

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DEPARTMENT OF ELECTRONICS &
COMMUNICATIONS ENGINEERING

ECE DEPARTMENT NEWS LETTER 2022-23

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1. ABOUT THE DEPARTMENT

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 increased to 180 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 27 in number out of them 8 are doctorates, and 9 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.

MODROBS - VLSI ECAD Lab

As a aspirational institute the department of ECE have received a grant of Rs 9 lakhs from AICTE for modernization of VLSI E-CAD laboratory under the MODROB-ASP scheme. This enables to upgrade the lab with latest Xilinx Vivado software for designing and realization of hardware. Further, Zynq-7000 and Artix-7 FPGA boards are used for development of real-time applications.

The major Equipments recently procured:

- Digital Signal Processors Kits(TMS320C6713)
 - Advanced RISC Machine Processor Kits(LPC2148)
 - Xilinx SPARTAN 3Em FPGA Boards
 - Zynq – 7000 SoC
 - Artix-7 FPGA
-

2. DEPARTMENT EVENTS

2.1 Workshops & Guest lecture

To get more practical knowledge about various emerging areas and its applications in the field of Electronics and Communication Engineering, ECE Department very often organizes various webinars to bridge the gap between Industry and Academics.

S. No	Date of Event	Name & Designation of the Resource person	Topic	Photo
1	17 October - 22 October 2022	Dr.V.Sravan Kumar, Assistant Professor, & Dr. Karthick ,Assistant Professor Dept of ECE, Nalla Narasimha Reddy Education Society's Group of Institutions.	Hands on training in Digital Signal Processor & Digital Image Processing using MATLAB.	
2	17 October - 22 October 2022	Dr. Rajasekhar Turaka, Assistant Professor, Dr. Hari Prasad Naik, Associate Professor, Dept of ECE, Nalla Narasimha Reddy Education Society's Group of Institutions.	Hands on Training in VLSI Design.	
3	19 November 2022.	Dr. P Anil Kumar . Scientist –FRCI (DRDO), Hyderabad.	Modeling & Simulation using Simulink software for Engineering Applications.	
4	5 December 2022.	IIC Of Nalla Narasimha Reddy Education Society's Group of Institutions & Dean School Of Engineering Dr. G. JANARDHAN RAJU	Training on Full Stack Development Using Java.	

3. FACULTY ACHIEVEMENTS

3.1 Research & Contribution:

Research Guidance

- ❖ Ms. Kalaiselvi B completed her Ph.D degree from Bharat Institution Higher Education & Research under the esteemed guidance of Dr. C.V.Krishna Reddy, Director, NNRESGI.

Professional Body Nominations

- ❖ Dr. C.V.Krishna Reddy was nominated as member of Governing Council, IETE Chapter, Hyderabad section by President, IETE, New Delhi for the academic year 2022-23.

Books / Chapters

- ❖ Dr. Ravichand S, et al. "CNN Classification Approach to Detecting Abusive Content in Text Messages." In Artificial Intelligence and Blockchain in Digital Forensics, pp. 55-67. River Publishers, 2022.
- ❖ Ms K.Madhavi, et al. "Digital Image Processing with MATLAB", Springer Singapore, ISSN-978-920-5-20232-7, Volume -1, September 2022.

3.2 Journals / Conferences:

- ❖ Dr. C V Krishna Reddy, "Deep learning approach for segmentation and classification of blood cells using enhanced CNN", Journal of Measurement: Sensors, ISSN -100582, Volume – 24, Dec-22.
- ❖ Dr. Ravichand, S "A Novel Optimization based Energy Efficient and Secured Routing Scheme using SRFIS-CWOSRR for Wireless Sensor Networks", International Journal of Electrical and Electronics Research, 2022, 10(3), pp. 644–650.
- ❖ Dr. Ravichand, S "An Area and Delay-Efficient Approximate Hybrid Adder for VLSI Circuit Designs". Lecture Notes in Electrical Engineering 2022, 915, pp. 31–37.
- ❖ Dr. Ravichand, S. "A Novel Voltage Level-Up Shifter Design for Power Efficient Methods Using Dual Current Mirror Technique Lecture Notes" in Electrical Engineering, 2022, 915, pp. 689–700.
- ❖ Dr. T. Raja Sekhar, Dr. Ravichand, S, "FPGA Implementation of Radix-2 Pipelined FFT Algorithm for High-throughput Applications", Lecture Notes in Electrical Engineering, 2022, 881, pp. 753–760.

3.3 Workshops / FDP's Attended:

S.No	Name of the Faculty	Topic	Organization & Place	Duration (From - To)
1	Mr Alampally Aravind	Analog Electronic Circuits	Indian Institute of Technology , Madras	July 2022 to Oct 2022
2	Mr Alampally Aravind	Machine Learning	Dept. of IT, SIT, Lonavala, Pune	07-Dec-2022 - 11-Dec-2022
3	Dr. S.Ravichand	Cloud Computing	Indian Institute of Technology , Madras	July 2022 to Oct 2022
4	Mr P.S.Sreenivasa Reddy	Cloud Computing	Indian Institute of Technology , Madras	July 2022 to Oct 2022
5	Mr P.S.Sreenivasa Reddy	Research Oppurtunities in Semiconductor Materials and Devices (ROSMD 2022)	SRM Institute of Science and Technology, Kattankulathur Campus in association with the Indian Institute of Information Technology, Design and Manufacturing, Kancheepuram.	19 Oct-2022 to 24 Oct 2022
6	Ms E.Suneetha	Cloud Computing	Indian Institute of Technology , Madras	July 2022 to Oct 2022
7	Dr.S.Karthick	Accreditation and outcome Based Learning	Indian Institute of Technology , Madras.	Aug 2022 to Oct 2022
8	Dr.S.Karthick	Real-Time Digital Signal Processing	Indian Institute of science Bangalore.	July 2022 to Oct 2022
9	Dr.N.Adithya Valli	The Joy of Computing using Python	Indian Institute of Technology , Madras.	July 2022 to Oct 2022
10	Ms K.Madhavi	Data Science 2.0 Master Class	Pantech E Learning, Chennai	20 Sep 2022 – 21 Oct 2022
11	Ms N.Lavanya	Recent Trends in Wireless Communications	Mahatma Gandhi Institute of Technology	20 Oct to 22 Oct 2022
12	Ms N.Lavanya	Machine Learning	Department of IT,SIT,Lonavala,Pune	7 Dec 2022 to 11 Dec
13	Ms Anuradha K	Recent Trends in Wireless Communications	Mahatma Gandhi Institute of Technology	20 Oct to 22 Oct 2022
14	Mr CH.Phanindra	Cloud Computing	Indian Institute of Technology , Madras	July 2022 to Oct 2022

3.4 NPTEL Course Certifications

S. No	Name of the Faculty	Title	Organized by	Date
1	Mr Alampally Aravind	Analog Electronic Circuits	Indian Institute of Technology , Madras	July 2022 to Oct 2022
2	Mr Alampally Aravind	Machine Learning	Dept. of IT, SIT, Lonavala, Pune	07-Dec-2022 - 11-Dec-2022
3	Dr. S.Ravichand	Cloud Computing	Indian Institute of Technology , Madras	July 2022 to Oct 2022
4	Mr P.S.Sreenivasa Reddy	Cloud Computing	Indian Institute of Technology , Madras	July 2022 to Oct 2022

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9	Dr.N.Adithya Valli	The Joy of Computing using Python	Indian Institute of Technology , Madras.	July 2022 to Oct 2022
10	Mr.CH.Phanindra	Analog Electronic Circuits	Indian Institute of Technology , Madras	July 2022 to Oct 2022
11	Mr CH.Phanindra	Cloud Computing	Indian Institute of Technology , Madras	July 2022 to Oct 2022

4. STUDENTS' ACHIEVEMENTS

4.1 Internship & Training

S. No	Roll number	Name of the student	Name of the organization	Topic Name
1	197Z1A04B9	Dhrithik Raj V.R	DRDL	Missile Avionics and Communication System
2	197Z1A04A21	P.Vivek Krishna	DRDL	Automatic Launch System
3	197Z1A0413	B.Anuhya	Maven Silicon	AHB TO APB BRIDGE
4	197Z1A0401	A.Akhil kumar	Maven Silicon	AHB TO APB BRIDGE
5	187Z1A0488	Sreeja Deshpande	Maven Silicon	AHB TO APB BRIDGE

4.2 Co-Curricular Activities

S. No	Roll Number	Name of the Student	Name of the Event	Venue	Prize details	Date(s)
1	207Z1A0488	P. Manish	Telangana Information Technology Association	TITA, T-HUB, Hitec City	Elected as State Student-Joint Secretary	26-Nov-2022
2	207Z1A0452	G.Varshitha	Telangana Information Technology Association	TITA, T-HUB, Hitec City	Elected as State Student-Joint Secretary	26-Nov-2022
3	207Z1A0477	K.Meghana	Telangana Information Technology Association	TITA, T-HUB, Hitec City	Elected as State Student-Joint Secretary	26-Nov-2022

4.3 Extra-Curricular Activities

S.No	Roll Number	Name of the Student	Name of the Event	Name of Host Institution	Achievement details (I / II / III prize/ participated)	Date(s)
1	197Z1A0448	Katam Anudeep	Roboveda	SNIST	Participation Certificate	01-Dec to 03 Dec2022
2	197Z1A0411	Bethi Mukesh	Roboveda	SNIST	Participation Certificate	01-Dec to 03 Dec2022
3	197Z1A0436	Jambige Karthik	Roboveda	SNIST	Participation Certificate	01-Dec to 03 Dec2022
4	207Z5A0404	Venkatnath Dass	Roboveda	SNIST	Participation Certificate	01-Dec to 03 Dec2022
5	197Z1A0423	D Jaya Krishna	Roboveda	SNIST	Participation Certificate	01-Dec to 03 Dec2022
6	197Z1A0448	Katam Anudeep	Tecnoesis	NIT, Silchar	3 rd position	20-Oct to 23-Oct 2022
7	197Z1A0411	Bethi Mukesh	Tecnoesis	NIT, Silchar	3 rd position	20-Oct to 23-Oct 2022
8	197Z1A0436	Jambige Karthik	Tecnoesis	NIT, Silchar	3 rd position	20-Oct to 23-Oct 2022
9	207Z5A0404	Dharoori Venkatnath Dass	Tecnoesis	NIT, Silchar	3 rd position	20-Oct to 23-Oct 2022
10	207Z5A04C6	Thumu Vikranth	Tecnoesis	NIT, Silchar	3 rd position	20-Oct to 23-Oct 2022
11	197Z1A0423	D Jaya Krishna	Tecnoesis	NIT, Silchar	3 rd position	20-Oct to 23-Oct 2022
12	197Z1A04B6	Vaibhav Avasthy	Model United Nations	MUN, Anurag University	First Special Mention	7-Oct to 9-Oct 2022
13	197Z1A04B6	Vaibhav Avasthy	Model United Nations	MUN, MLRIT	Honourable Mention	25 Oct to 27 Nov 2022
14	197Z1A04B6	Vaibhav Avasthy	WIE Conferencia	SNIST	Participation Certificate	2 Dec to 4 Dec 2022
15	207Z1A0449	G.Hemakanth	Global Connect	TITA	Elected as Student-Joint Secretary	16-Dec 2022
16	207Z1A0451	G.Chandravardhan Reddy	Global Connect	TITA	Elected as Student-Joint Secretary	16-Dec 2022

4.4 PLACEMENT DETAILS

The following IV B.Tech I Semester students received the job offers in the academic year 2022-23.

Sl.No.	Roll. No.	Name of the Student	Name of MNC
1	197Z1A0436	J. KATHIK	TCS
2	197Z1A0483	P. KEERTHI	TCS
3	197Z1A04A1	R. HARIKA	TCS
4	197Z1A04B5	T. BHARGAVI	TCS
5	197Z1A0430	SANTOSH	ARI
6	197Z1A0483	P. KEERTHI	ARI
7	197Z1A04C1	VIDHATHRI JOSHI	ARI
8	197Z1A04B5	T. BHARGAVI	ARI

5. 2021-22 TOP PERFORMERS

The top performers in the end semester examinations held in the academic year 2021-2022

Rank. No.	Roll No.	Name of the Student	Aggregate CGPA	Class Obtained
<u>B.TECH - IV-YEAR (IV-I & IV-II)</u>				
I	187Z1A0415	BHANU HARIKA	9.44	First Class with Distinction
II	187Z1A0421	SUJATHA YADAV	9.44	First Class with Distinction
<u>B.TECH - III-YEAR (III-I & III-II)</u>				
I	197Z1A0437	J. LAXMI DIVYA	7.89	First Class with Distinction
II	197Z1A0483	P. KEERTI	7.73	First Class with Distinction
<u>B.TECH - II-YEAR (II-I & II-II)</u>				
I	207Z1A0451	E. NIKITA	9.29	First Class with Distinction
II	207Z5A0443	G. CHANDRA VARDHAN	8.81	First Class with Distinction

6. ALUMNI ARENA

The messages and key-talks delivered by our alumni with a blend of talent and good academics currently working in good, reputed organizations by rendering their quality & valuable service.

- ❖ I, Sai pooja graduated from NNRG (2015 -2019), cracked GATE19 exam and completed Post Graduation from Osmania University and working as a Software Development Engineer in AMD India Pvt. Ltd., from a couple of years .Wherever I am today is just because of the guidance of my Professors and I will never forget their lessons in my life.



❖ I, V.Sai Nikhil graduated from NNRG (2018 -2022) and working in 'WORK-FUSION' as Trainee Software. The NNRG community always promoted Innovative Ideas that helps in facing challenges in world.



❖ I, K.Abhishek graduated from NNRG (2018-2022) and got placed in six companies namely TCS, UTS, TECH MAHINDRA, CAPGEMINI and HCL & EXCEL-VLSI. "Wherever I go, I feel proud that I am a student of NNRG". The NNRG community always promotes Innovative Ideas that helps in facing challenges in the world



7. EVENTS & CELEBRATIONS

❖ ENGINEERS DAY 2022

The Department of Electronics and Communication Engineering had long been planning to conduct 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 Model Exhibition competitions, in which all the students of ECE department comprising B. Tech I, II, III & IV Year were part of this event. 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.



About 250 students from all the years of ECE had participated actively in various events conducted on 14th and 15th of September, 2022. The above mentioned events were conducted keeping in view the following aspects:

- (i) Importance of Engineers Day
- (ii) Importance of ECE towards society
- (iii) Innovations in the field of ECE

The coordinating team consisting of judges and other panel members had been constituted in order to manage and conduct the above activities smoothly.

❖ Motivational Talk

Mr. Seetha Mounish Patel, CEO, Optimum Pvt. Limited, Hyderabad presented a talk on the topic "My Story - Motivational Story by Successful Innovator" held on 30th November, 2022.



❖ INDUSTRIAL VISITS

On the occasion of 75 years of Indian Independence (Azadhi ka Amrit Mahotsav) Geological Survey of India Training Institute, Hyderabad organized an interaction session with 138 students and 6 faculty members of our college on 23-12-2022. Shri.C.H.Venkateswara Rao, Deputy Director General and Head Mission-V president over the meeting. Dr. Mathew Joseph, Deputy Director General, Bhutia, Director (Technical Coordination) and faculty members of GSITI attended the session. Sri C.H.Venkateswara Rao, Deputy Director General and Head Mission-V, explained the history of GSI and its achievements' and the vital role it has played in the country's development. Dr. Mathew Joseph, Deputy General briefed the participants about GSI's role in nation building and mineral exploration. And many people gave the lectures and interacted with the students.



The Institution Of Engineers (India) organized the 37th National Convention of Mechanical Engineers and National seminar on "ADVANCE IN BATTERY TECHNOLOGIES FOR ELECTRIC AND HYBRID VEHICLES", on 09-10-2022. The National Convention consisted of Inaugural function, six technical session, panel discussion and valedictory function.



❖ ORIENTATION

Orientation Day was held on 03-11-22, to welcome the 1st year students and their parents to the college and to familiarize them with the college norms.



❖ SWACHH BHARATH

As a part of Swachh Bharath activities of NNRG, the students cleaned the college premises on 03-12-22.

NSS students of various branches participated in this program with enthusiasm. Participated student took oath to keep campus clean and green by pick up wraps, sweeping representing cleanliness.



❖ INDUCTION PROGRAM

A student Induction Program was conducted for the 1st B.Tech from 3-19 Nov, 2022.

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.



❖ BLOOD DONATION

At the institute level blood donation camp was organized by the NSS Committee on 25-09-2022.

From the department approximately 65-100 students and faculty have participated. Program was held in college Auditorium. Blood donors were given a certificate and a refreshment drink.



