NALLA NARASIMHA REDDY EDUCATION SOCIETY'S GROUP OF INSTUTUTIONS

(UGC AUTONOMOUS INSTITUTION)

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

ELECTRONICS COMMUNICATION AND ENGINEERING

DEPARTMENT NEWSLETTER
2022-23
(MARCH & APRIL)

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 ofElectronicsandCommunicationEngineeringencompassesallareasofhumanlife.Radio,television,telephones,computers,automobiles,officemachineryandhouse-holdappliances,lifesaving medical equipment's 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 180 from the year 2019. PG Program in M.Tech with specialization VLSI & Embedded Systems is approved by AICTE for the academic year 2013-14, with an in take 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 facultyandstudentsupdatedwithlatestdevelopmentsinvarioustechnologies.Thedepartment 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.

Thesoftware'sandmajorEquipment'sthatareavailableinthedepartmentare:

- Cadence EDA Tool
- MATLAB-2014bandToolBoxes(Simulink,ImageProcessing,Communication,SignalProcessingand 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 3Em FPGA Boards

2. DEPARTMENTEVENTS

2.1 WEBINARS/SEMINARS

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 Resourceperson	Topic	Photo
1	2nd Mar 2023	Mr. K.P.Singh , *CEO*, IMFS, Hyd. & Mr.V.Ajaya Kumar *Director*, IMFS, Hyd.	'Study Abroad'	

2	25th Mar, 2023	Mr. Vijay Kumar Reddy, *Director*, EAIESB Software Solutions, Hyderabad.	'Internal Hackathon on Rich Web Application Development'	
3	18th Apr, 2023.	Dr.T Kishore Kumar, *Professor*, NITWarangal. (Also a *Senior IEEE Member,Visiting Professor*, AITBangkok.& Former , Head ECE,NIT Warangal.	'Research Funding Agencies'	
4	29th Apr, 2023.	Mr. Vijay Reddy*Director,*EAI ESBSoftwareSoluti ons, Hyderabad. Ms.K.Jagadamba *Infosys Associative* Mr.T.Dheeraj Reddy *MD.RSS Solutions*	'National Level Hackathon on Rich Web Application Development'	

3. FACULTY ACHIEVEMENTS

Journals and Conferences

- ❖ Dr. S RaviChand published a paper entitled "An Intelligent Heuristic Manta-Ray Foraging Optimization and Adaptive Extreme Learning Machine for Hand Gesture Image Recognition", published in BIG DATA MINING AND ANALYTICS, ISSN 2096-065406/10 pp321 –335 Volume 6, Number 3, September 2023 DOI:10.26599/BDMA.2022.9020036.

- ❖ Dr. S RaviChand published a book chapter entitled, "CNN classification Approach to Detecting Abusive Content in Text Messages in Artificial Intelligence and Blockchain in Digital Forensics, 1st Edition Published 2023, Imprint by River Publishers, Denmark,Pages13eBookISBN9781003374671.

3.2 Faculty Development Programs attended

S.No	Name of theFaculty	Topic	Organization&Place	Duration (From-To)
1	Dr.S.RaviChand	'Design and Implementation of advanced VLSI Architectures'	Lakireddy BaliReddy College of Engineering AndhraPradesh.	13th-17thApril, 2023.
2	MadhaviK	'Roadmap for Patent Creation'	NPTEL–AICTE Design and Implementation of Advanced VLSI Architectures	8weeks (Jan-Mar),2023
3	SwethaTarigoppula	'Modelling Simulation and Fabrication of Advanced Electronic Devices'	Vellore Institute of Technology, Chennai.	15th-19thApril,2023.
4	Anuradha Kotakadi	'National Level Virtual Seminar on "Innovative Technologies and Job Opportunities InWeb3.0,MetaverseAR & VR And Live Streaming Media'.	Sathyabama Institute of Science andTechnology, Chennai.	15th April,2023.
5	Alampally Aravind	'National Level Virtual Seminar on "Innovative Technologies and Job Opportunities in Web3.0,Metaverse AR & VR And Live Streaming Media'.	Sathyabama Institute of Science and Technology, Chennai.	15th April,2023.
6	Nalla Lavanya	'National Level Virtual Seminar on Innovative Technologies and Job Opportunities inWeb3.0, Metaverse AR&VRAnd Live Streaming Media'.	Sathyabama Institute of Science and Technology, Chennai.	15th April,2023.
7	Dr.V.Sravan Kumar	'Design and Implementation of advanced VLSI Architectures'.	Lakireddy BaliReddy College of Engineering, AndhraPradesh.	13th -17th April,2023.
8	Alampally Aravind	'Design and Implementation of advanced VLSI Architectures'.	Lakireddy BaliReddy CollegeofEngineering, AndhraPradesh.	13th–17thApril,2023
9	Anuradha Kotakadi	'Design and Implementation of advanced VLSI Architectures'.	Lakireddy BaliReddy College of Engineering, AndhraPradesh.	13th–17thApril,2023

10		Nalla Lavanya	'Design and Implementation of advanced VLSI Architectures'	Lakireddy BaliReddy College of Engineering, AndhraPradesh.		13th– 17thApril,20 23

4. <u>STUDENTS' ACHIEVEMENTS</u>

4.1 CO-CURRICULAR ACTIVITIES

<u>S. No</u>	<u>Roll Number</u>	<u>Name of the Student</u>	<u>Name of the Event</u>	<u>Name of Host Institution</u>	<u>Achievement details</u>	<u>Date(s)</u>
1	217Z1A0427	Gunakanth	Badminton	NNRG, Hyderabad	Winner	27-Feb-23
2	217Z1A0406	A.Vinay	Cricket	NNRG, Hyderabad	Runner	28-Feb-23
3	217Z1A0413	B.Udaykumar	Cricket	NNRG, Hyderabad	Runner	28-Feb-23
4	217Z1A0442	J.Sharath	Cricket	NNRG, Hyderabad	Runner	28-Feb-23
5	217Z1A04A2	SK.Shanavas	Cricket	NNRG Hyderabad	Runner	28-Feb-23
6	217Z1A0431	G.Sai Teja	Cricket	NNRG, Hyderabad	Runner	28-Feb-23
7	217Z1A04A3	B.Ajay Reddy	Cricket	NNRG, Hyderabad	Runner	28-Feb-23
8	217Z1A0441	J.Bhavmik Reddy	Cricket	NNRG, Hyderabad	Runner	28-Feb-23
9	217Z1A0436	G.Sai kiran	Cricket	NNRG, Hyderabad	Runner	28-Feb-23
10	217Z1A0421	D.Rafi	Cricket	NNRG, Hyderabad	Runner	28-Feb-23
11	207Z1A04B0	R.ArunGoud	Cricket	NNRG, Hyderabad	Runner	28-Feb-23
12	217Z1A0450	K.Manideep	Cricket	NNRG, Hyderabad	Runner	28-Feb-23
13	217Z5A0419	Manasa	Kabaddi	NNRG, Hyderabad	Winner	02-Mar-23
14	217Z5A0415	Shravya	Kabaddi	NNRG, Hyderabad	Winner	02-Mar-23
15	217Z5A0406	Sujana	Kabaddi	NNRG, Hyderabad	Winner	02-Mar-23
16	207Z1A04C7	Pooja Reddy	Kabaddi	NNRG, Hyderabad	Winner	02-Mar-23
17	207Z1A0465	Harika	Kabaddi	NNRG, Hyderabad	Winner	02-Mar-23
18	207Z1A0473	Sindhuja Reddy	Kabaddi	NNRG, Hyderabad	Winner	02-Mar-23

19	207Z1A0457	Vaishnavi	Kabaddi	NNRG, Hyderabad	Winner	02-Mar-23
20	207Z1A04C0	Amulya	Kabaddi	NNRG, Hyderabad	Winner	02-Mar-23
21	207Z1A0471	Neha Reddy	Badminton	NNRG, Hyderabad	Winner	02-Mar-23
22	197Z1A0411	A.Akhil kumar	Internal Hackathon	NNRG Hyderabad	I Prize	25-Mar-23
23	197Z1A0401	A.Akhil Kumar	External Hackathon	NNRG Hyderabad	II Prize	29-April-23
24	197Z1A0411	B.Mukesh	External Hackathon	NNRG Hyderabad	II Prize	29-April-23
25	197Z1A04A2	R.Vivek Krishna	External Hackathon	NNRG Hyderabad	II Prize	29-April-23

4.2 EXTRA-CURRICULAR ACTIVITIES

S.No	Roll Number	Name of the Student	Name of the Event	Name of Host Institution	Prize details	Date(s)
1	197Z1A0448	Katam Anudeep	Drone Race	JNTUH	I Prize	26th-27th April,23
			Robo Soccer		II Prize	
			Robosumo		II Prize	
			Roborace		I & III Prize	
2	197Z1A0411	Bethi Mukesh	Drone Race	JNTUH	I Prize	26th – 27th April,23
			Robo Soccer		II Prize	
			Robosumo		II Prize	
			Roborace		I & III Prize	
3	197Z1A0436	Jambige Karthik	Drone Race	JNTUH	I Prize	26th-27th April,23
			Robo Soccer		II Prize	
			Robosumo		II Prize	
			Roborace		I & III Prize	
4	207Z1A0404	Venkatnath Dass	Drone Race	JNTUH	I Prize	26th-27th April,23
			Robo Soccer		II Prize	
			Robosumo		II Prize	
			Roborace		I & III,	
5	197Z1A0401	Ayla Sanjana	Drone Race	JNTUH	I Prize	26th-27th April,23
			Robo Soccer		II Prize	
			Robosumo		II Prize	
			Roborace		I&III Prize	
6	227Z1A0488	Prashanth	Drone Race	JNTUH	I Prize,	26th-27th April23
			Robo Soccer		II Prize	
			Robosumo		II Prize	
			Roborace		I& III Prize	

			Robosoccer,			
7	197Z1A0448	KatamAnudeep	Paper Presentation	MLRITM, Hyderabad	II Prize	13th -14th March, 23
			Poster Presentation			
			LineFollowerRobot			
8	197Z1A0411	Bethi Mukesh	Robosoccer,	MLRITM, Hyderabad	II Prize	13th -14th March, 23
			Paper Presentation			
			Poster Presentation			
			LineFollowerRobot			
9	197Z1A0436	Jambige Karthik	Robosoccer,	MLRITM, Hyderabad	II Prize	13th -14th March, 23
			Paper Presentation			
			Poster Presentation			
			LineFollowerRobot			
10	207Z1A0404	Venkatnath Dass	Robosoccer,	MLRITM, Hyderabad	II Prize	13th -14th March, 23
			Paper Presentation			
			Poster Presentation			
			LineFollower Robot			
11	197Z1A0401	Ayla Sanjana	Robosoccer,	MLRITM, Hyderabad	II Prize	13th -14th March, 23
			Paper Presentation			
			Poster Presentation			
			Line Follower Robot			
12	227Z1A0488	Prashanth	Robosoccer,	MLRITM, Hyderabad	IIPrize	13th -14th March, 23
			Paper Presentation			
			Poster Presentation			
			Line Follower Robot			
13	197Z1A0448	Katam Anudeep	Robosoccer,	Vasavi Engineering College, Hyderabad	I Prize	11thApril, 23
			RcPlane			
14	197Z1A0411	Beth Mukesh	Robosoccer	Vasavi Engineering College, Hyderabad	I Prize	11thApril, 23
			RcPlane			
15	197Z1A0436	Jambige Karthik	Robosoccer	Vasavi Engineering		11thApril,

			RcPlane	College, Hyderabad	I Prize	23
16	207Z1A0404	Venkatnath Dass	Robosoccer	Vasavi Engineering College, Hyderabad		11thApril, 23
			RcPlane		I Prize	
17	197Z1A0401	Ayla Sanjana	Robosoccer	Vasavi Engineering College, Hyderabad		11thApril, 23
			RcPlane		I Prize	
18	227Z1A0488	Prashanth	Robosoccer	Vasavi Engineering College, Hyderabad	I Prize	11thApril, 23
			RcPlane			

5.PLACEMENT SELECTS

Sl. no.	Roll no.	Name of Student	MNCName
1	197Z1A0413	BOGI ANUHYA	SAVANTIS
2	197Z1A0416	BRAHAMANAPALLY VARSHA	SAVANTIS
3	197Z1A0424	DEWKATHE DIVYA	SAVANTIS
4	197Z1A0430	G SAI SANTOSH REDDY	SAVANTIS
5	197Z1A0437	JAKKIREDDY LAXMIDIVYA	SAVANTIS
6	197Z1A0459	LINGALA SRINIJA	SAVANTIS
7	197Z1A0460	LYDIA RACHEL	SAVANTIS
8	197Z1A0462	MUNGI GIRISH	SAVANTIS
9	197Z1A0479	NIKITHA SHARMA	SAVANTIS
10	197Z1A04A1	R HARIKA REDDY	SAVANTIS
11	197Z1A04A3	SAI SUJITH RAJU	SAVANTIS
12	197Z1A04B1	T SAI KIRAN SINGH	SAVANTIS
13	197Z1A04B9	DHRITHIK RAJ V.R	SAVANTIS
14	197Z1A04C1	VIDHATHRI JOSHI	SAVANTIS
15	197Z1A04C5	Y SAI LOKESH	SAVANTIS
16	197Z1A04C8	Y MOUNIKA	SAVANTIS
17	207Z5A0401	ANUMALLA SAI LAXMI PRASANNA	SAVANTIS
18	207Z5A0408	M PAVAN	SAVANTIS
19	197Z1A0411	B.MUKESH KUMAR	Q SPIDERS
20	197Z1A0417	B.DIVYA	Q SPIDERS
21	197Z1A0419	CH.DEEPAK REDDY	Q SPIDERS
22	197Z1A0448	K.ANUDEEP	Q SPIDERS
23	197Z1A0483	P.KEERTHI	Q SPIDERS
24	197Z1A0488	P.RADHIKA	Q SPIDERS
25	197Z1A04B6	VAIBHAV AVASTHY	Q SPIDERS
26	197Z1A04C1	VIDJATHRI JOSHI	C2SO TECHNOLOGIES
27	197Z1A0462	M.GRISH	GREY CAMPUS
28	1971ZA04B9	V.R.DHRITHIK RAJ	ILENSYS

6.RESULTS OF B.TECH-III-I–MAR,2023

Rank	Roll No.	Name of the Student	SGPA
I	207Z1A04B1	R.Balamanikanta	7.98
II	207Z1A04B5	S.Nandhini Reddy	7.86
III	207Z1A0443	E.Nikitha Reddy	7.82

7.ALUMINI CONNECT

Hi, my name is Kareem. I am 2022 passed out. I am working in Astra Microwave Products Limited (AMPL) as trainee engineer. It was a wonderful experience to learn and implement the things in campus and good atmosphere.When I compared to other institutions, NNRG is friendly in terms of fees and management. One thing I want to say I'm unable afford engineering education.But it is possible through NNRG.Last but not the least our college faculty is best In delivering the things. Thank you NNRG for your efforts make my life independent.

Hi,my name is V.Nikhil.I am 2022 passed out. I am working in Workfusion company as trainee software engineer. One of my best experiences is joining Nalla Narasimha Reddy college is I met with strangers and now there are never ending bond. We used to chill in the cafeteria and in football ground but we used to the things on time and we used to manage work and enjoyment. Our faculty helped us a lot in terms of subject, knowledge and they used to teach us how things are in the outside world. I would say we enjoyed a lot in the college and we learned alot also.

Hi, Myself Rakesh Sai,2022 passed out and working as a Systems engineer at TCS. Going to college is still one of my most exciting thing ever, not because of studies but more on meeting friends learning together. College is not all about studies it's also making memories which I did with the special four. My faculty made our syllabus fun to learn and easy to grasp with friendly teaching model. Life is exciting when u have the right faculty and perfect balance with studies and fun. Special thanks to Sunitha mam for making me interested in electronics whichI still use in my daily activities.

Hi, I am Ramya Mandadi. I am 2022 passed out. It was great being a part of NNRG. It is a really great place to learn and explore. A very eco-friendly environment. The faculty always showed their support and encouraged me to reach my goals. Currently I am working at Tech Mahindra as Associate SoftwareEngineerfromDecember,2022.

EVENTS

> ### TECH SAMPRATHI 2023

Tech Samprathi was organized on 9th ,10th and 11th March, 2023.

On 9th March, there was a technical fest where students participated in the technical events.

On 10th and11thMarch, there was a cultural fest.

All the faculty and students actively participated in all the events and made it a great success.

EYE CAMP –NSS TEAM

The NSS Unit of NNRG has organized an Eye Camp on 18th March,2023 in Association with Vision Eye Hospital.

The Vision Eye Doctors Checked our NNRG Faculity and Students and gave them medical prescription.

WISHING YOU ALL SUCCESS AND GOOD HEALTH !!