



VALLURUPALLI NAGESWARA RAO VIGNANA JYOTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

An Autonomous Institute, ISO9001:2015 & QS I-Gauge Diamond Rated Institute, Accredited by NAAC with 'A++' Grade

NBA Accreditation for B.Tech CE, EEE, ME, ECE, CSE, EIE, IT, AE Programmes

Approved By AICTE New Delhi, Affiliated to JNTUH, Hyderabad.

Recognized as "College with Potential for Excellence" by UGC

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ELECTROCOMM-IN-VISION

Department of Electronics and Communication Engineering

Quarterly News Bulletin

October- December 2023

Vision

A resource centre of academic excellence for imparting technical education with high pattern of discipline through dedicated staff which shall set global standards, making National and International students technologically superior and ethically strong, who in turn shall improve the quality of life.

Mission

- To provide quality education in the domain of Electronics and Communication Engineering through effective learner centric process.
- To provide industry specific best of breed laboratory facilities beyond curriculum to promote diverse collaborative research for meeting the changing industrial and societal needs.

Quality Policy

- Impart up-to-date knowledge in the students' chosen fields to make them quality engineers.
- Make the students experience the applications on quality equipment and tools.
- Provide quality environment and services to all stakeholders.
- Provide systems, resources and opportunities for continuous improvement.
- Maintain global standards in education, training and services.

S.No.	Contents	Page No.
1	Foreword	1
2	Faculty Updates	2
3.	Whizz-Kids	2 - 4
4.	Awards & Recognitions	4-8
5	Guest Lectures Delivered	8-9
6	Events Organized	9-12
7	Events Attended	12-15
8	Online Certifications	15-19
9	Training, Internships and Placements	20-21
10	Ph.D Awarded	22
11	Research and Development Activities	22-29
12	Industrial Visits	30-32
13	Upcoming Events	33-34
14	Tech News	35
15	Articles by Faculty and Students	36-37
16	Creative Corner	38
17	To solve or not to?	40

Head of the Department



I extend a warm welcome to the Oct-Dec 2023 edition of our Electronics and Communication Engineering (ECE) department's newsletter. Within its pages, you will discover articles, research highlights, and arts that vividly showcase the talent and proactiveness of our students, faculty members and adjunct professors who have been guiding us for many years. Our department is also in close touch with the industries, enabling us to inculcate the latest technologies in our curriculum and train our students and faculty to prepare them for the current market.

We have programs to train our students in competitive coding and aptitude which are the basic skill set required by the companies. The very proof of this is our college alumni of our branch who got placed in reputed MNCs.

Looking at these accomplishments, I am very proud of our department. Through our unwavering commitment, we will undoubtedly shape the future of Electronics and Communication Engineering. I express my heartfelt gratitude to each of you for your invaluable contributions to this newsletter.

Dr. S. Rajendra Prasad

Faculty Updates



Mr. V. Pradeep Kumar



Dr. N Subash

- **Mr. V. Pradeep Kumar** joined the department as **Assistant Professor** on 30th October 2023.
- **Dr. N Subash** joined the department as **Assistant Professor** on 31st October 2023.

Whizz-Kids

Section Wise Class Toppers (A.Y 2022-2023)

II B.Tech. II Semester

Class	Student Name	Roll Number	SGPA
ECE-A	Bonthu Meghana Pranitha Musunuru	21071A0407 21071A0446	9.2 9.2
	Elegety Sri Varsha Nainika Kandarpa	21071A0416 21071A0439	8.9 8.9
	Y Vishwa Priya Reddy	21071A0463	8.85
ECE-B	Adithya Phani Thota	21071A0490	9.13
	Tumu Sai Shivani	21071A04C6	8.9
	Allaka Sai Jothsna Sri	21071A0466	8.83

Class	Student Name	Roll Number	SGPA
ECE-C	Mididoddi Tejaswi	21071A04G6	9.28
	Amgoth Srinu	21071A04D3	9.2
	Tithi Chetan Mahajani	21071A04J7	9.08
ECE-D	Ganji Bhuvana Rishitha Sangani Sindhu	21071A04No 21071A04R7	9.5 9.5
	Mothukuri Sreya	21071A04Q3	9.45
	Pallerla Srinija	21071A04Q9	9.43

Section Wise Class Toppers (A.Y 2022-2023)

I B.Tech. II Semester

Class	Student Name	Roll Number	SGPA
ECE-A	Chaitanya Reddy Varala	22071AO414	10
	Pallerla Srinidhi	22071AO438	9.7
	Konduru Bhavana Pallavi Sharma	22071AO429 22071AO437	9.55 9.55
ECE-B	Kotipalli Geetanjali	22071AO494	9.7
	Thatavarthi Gowtham	22071AO4C5	9.45
	Pasham Akshitha Reddy	22071AO4A8	9.3

Class	Student Name	Roll Number	SGPA
ECE-C	Sriya Putrevu	22071AO4J3	10
	Ruttala Prawallika	22071AO4H7	9.9
	Merugu Ashley Nischay	22071AO4F7	9.85
ECE-D	Nallala Akshith Reddy	22071AO4Q3	9.5
	Boggavarapu Lohitha	22071AO4Mo	9.45
	Konkipudi Manoj	22071AO4Pi	9.45



V. Chaitanya
SGPA: 10



P. Sriya
SGPA: 10



R. Prawallika
SGPA: 9.9



M. Ashley Nischay
SGPA: 9.85



P. Srinidhi
SGPA: 9.7



K. Geetanjali
SGPA: 9.7

Education's purpose is to replace an empty mind with an open one.

—Malcolm Forbes



K. Bhavana
SGPA: 9.55



P. Sharma
SGPA: 9.55



N. Akshith
SGPA: 9.5



T. Gowtham
SGPA: 9.45



B. Lohitha
SGPA: 9.45



K. Manoj
SGPA: 9.45

Awards & Recognitions

Faculty

- **Mr. D. Ramesh Reddy**, Assistant Professor received **Certificate of Silver Award** for the innovation on **“Suggesting Books Based on person IQ using Machine Learning” & “Braille Display with Integrated AI”** in India International Innovation and Invention Expo (INEX) 2023 at Goa on 11th November 2023.
- **Dr. Y. Padma Sai**, Professor & Dean Students Progression acted as **Session Chair** in 19th IEEE Asia-Pacific Conference on Circuits & Systems (APCCAS 2023) co-located with Asia-Pacific Conference on Post-Graduate Research in Microelectronics & Electronics (**PRIMEAsia 2023**) on 18th November 2023.



- **Dr. G. Shanthi**, Assistant Professor published a text book titled **“Novel Type RF MEMS Switch - Design and Analysis for Integration of Band Reject Filters for Ku-Band Applications”** with GCS Publishers, First Edition, October 2023, ISBN: 978-81-965912-9-8.

We cannot solve problems with the kind of thinking we employed when we came up with them.

—Albert Einstein



- **Dr. V. Priyanka**, Assistant Professor, received a certificate of appreciation for her role as a **Reviewer** in the International Conference on “Evolutionary Algorithms and Soft Computing Techniques (**EASCT-2023**)” organized by RV Institute of Technology and Management, Bengaluru, on 20th & 21st October 2023.

- **Dr. T. Srinivas**, Assistant Professor **volunteered** as proctor to guide and oversee competing teams for the **IEEE Xtreme17.0 programming competition** that hosted +17,000 participants on 29th October 2023.



- **Dr. V. Priyanka**, Assistant Professor received a certificate of appreciation for her role as a **Reviewer** in IEEE First International Conference on Ambient Intelligence, Knowledge Informatics and Industrial Electronics (**AIKIE-2023**), Rao Bahadur Y. Mahabaleswarappa Engineering College, Ballari on 02nd & 03rd November 2023.

- **Dr. N. Neelima**, Assistant Professor received a certificate of appreciation for her role as a **Reviewer** at the 1st International Conference on Deep Learning, IoT, Drone Technology, Smart Cities and Application (**ICDIDSA-2023**), organized by the Department of Electronics and Telecommunication Engineering, Sandip Institute of Technology and Research Centre, Nashik, Maharashtra on 29th & 30th November 2023.



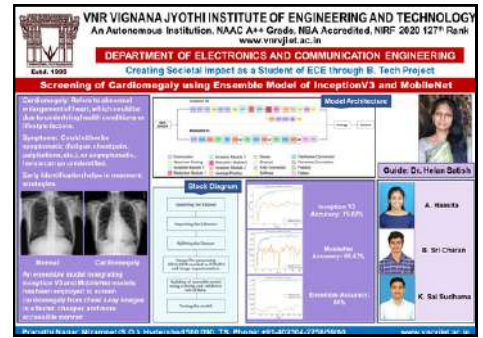
- **Ms. M. Haritha**, Assistant Professor appointed as one of the **coordinator** of the selection exam for **e-Yantra Robotics**, IIT Bombay on 08th December 2023.



Dr. V. Priyanka receiving the prestigious IEEE India Council Award -"Outstanding Volunteers", 2023

- **Dr. V. Priyanka**, Assistant Professor received the prestigious IEEE India Council Award - "**Outstanding Volunteers**", 2023 on 15th December 2023.

- **Dr. Ch. Anil Kumar**, Assistant Professor is appointed as **Reviewer** for the Journal – **Archives of Advanced Engineering Science**, December 2023.
- The project titled "**Screening of Cardiomegaly using Ensmble Model of InceptionV3 and MobileNet**," guided by **Dr. Helan Satish**, Assistant Professor has been chosen as the **best project** of the academic year 2022-2023 for its significant societal impact.



Students



- **A. Siddharth** (22071A04K2), **Masood Hussian** (22071A04P8), **N. S. S. C. Loukik** (22071A04Q4) and **T. Karthik** (22071A04T1) secured second position **Silver Award** for the Problem Statement: "**Suggesting Books Based on person IQ using Machine Learning**" & "**Braille Display with Integrated AI**" in India International Innovation and Invention Expo (**INEX**) 2023 at Goa on 11th November 2023.

- **K.Sathvik** (21071A0499) along with students of CSE, secured second position **Silver Award** for the Problem Statement: "**Braille Display with Integrated AI**" in India International Innovation and Invention Expo (**INEX**) 2023 at Goa on 11th November 2023.



- **V. Ashok Kumar** (22071D5701, M.Tech VLSI Design), **I. Harshini** (21071A0491) and **B. Lakshmi Madhuri** (22075A0409) won the **first, second & third prizes** for the VLSI quiz in kahoot conducted by the VLSI Club during the inauguration of "**Silicon Lab Innovation Centre**" on 2nd December 2023.



V. Ashok Kumar receiving 1st prize from Director



I. Harshini receiving 2nd prize from Director



B. Lakshmi Madhuri receiving 3rd prize from Director

Success is not final; failure is not fatal: It is the courage to continue that counts.

—Winston Churchill

- Out of the thirty two eligible students from the institute for the **e-Yantra Robotics program** selected for IIT Bombay, **nineteen students** are from the Department of ECE . Following is the list of students.

Sl. No	Name of the Student	Roll Number
1	B. Adarsh Reddy	21071Ao4D5
2	K.Arun Kumar	22075Ao4I1
3	E. Venugopal	21071Ao4E6
4	A.Sangeetha Laxmi	21071Ao4D1
5	D.Suvarna	21071Ao4E4
6	K.Tejaswini	21071Ao4J5
7	V. Saketh	21071Ao4R6
8	Shaik Mehtab	21071Ao450
9	B.Saathvik	21071Ao474
10	B.L.S. Lokesh	21071Ao471

Sl. No	Name of the Student	Roll Number
11	G.Niharika	21071Ao4F2
12	S.BrahmimiBhatt	21071Ao4J0
13	A.Vishnu Sharan	22075Ao415
14	N.Sreya	21071Ao4A7
15	M.Pranav Reddy	21071Ao4A6
16	K.Sree Sesa Akshitha	21071Ao4G2
17	Sai Praneeth Vasa	21071Ao448
18	Ch.Srihari	21071Ao4D9
19	B.Siva Sai	21071Ao4M2

- A team of **six students** from the Department of ECE represented VNRVJIET and won a cash prize of **Rs. 50,000** in the **Smart India Hackthon 2023** organized by **IIT Bombay** from 19th to 23rd December 2023.



Team members with their trophy and cash prize

It is better to fail in originality than to succeed in imitation.

—Herman Melville

Following is the list of students and the details.

Sl. No	Name of the Student	Roll Number
1	H. Aravind	2207IA0467
2	Ch. Sri Karthik	2207IA0477
3	D. Karthik	2207IA0481)

Sl. No	Name of the Student	Roll Number
4	K. Saketh Ram	2207IA0492
5	K. Geetanjali	2207IA0494
6	N. Venkata Yuva Rahul	2207IA04A5

Problem Statement Given By: Ministry of defense

Problem Statement Id: SIH 1414

Title (SIH1414): Drone based magnetic sensing system to detect magnetic anomaly

Description: To safeguard the Military by detecting landmines by using a drone equipped with sensors

Nodal center: National Institute of Engineering (Mysuru)

Faculty-Student Collabration

- **Mr. D. Ramesh Reddy**, Assistant Professor, and few students of the Department of ECE received the Certificate of Gold Award for the innovations on **“Screening of Salt Tolerance in Plants using IoT and Machine Learning”** & **“Print Smart: Seamless Printing Anywhere, anytime”** in India International Innovation and Invention Expo (INEX) 2023 at Goa on 11th November 2023.



G. Samanidhar receiving Fist prize Gold Award from Dr. S. Rajendra Prasad

- **Mr. D. Ramesh Reddy**, Assistant Professor and **G. Samanidhar** (2007IA04M1) secured first position **Gold Award** for the Problem Statement: **“Print Smart: Seamless Printing Anywhere, anytime”** in India International Innovation and Invention Expo (INEX) 2023 at Goa on 11th November 2023.

Guest Lectures Delivered

- **Dr. Y. Padma Sai**, Professor and Dean Student Progression delivered an online webinar Knowledge Sharing Session (KSS) on **“GITA GYAN - An Analytical Approach for Contented Life”** in an IETE webinar organized by IETE on 1st October 2023.



Dr. Y. Padma Sai receiving memento for her talk

- **Dr. V. Priyanka**, Assistant Professor delivered a talk on **“Importance of Sensors Council Chapter and its Initiatives at Student Branches”** in Women in Sensors-Security and Health organized by IEEE Sensors Council Hyderabad Chapter at BVRIT College of Engineering for Women, Hyderabad on 17th November 2023.
- **Dr. D. Kanthi Sudha**, Assistant Professor & **Mr. C. Kaushik**, Assistant Professor participated and represented the Institute for **“Study in India Program in Muscat, Oman”** at AI Falaj Hotel, Muscat For Indian National only on 08th & 09th December 2023.



Dr. V. Priyanka receiving memento for her talk



Visit to Oman for the program “Study in India Program”



- **Dr. Y. Padma Sai**, Professor & Dean Student progression delivered a Lecture on **“The Role of Wavelet Transforms in Bio-Medical Signal Processing”** in IETE RS Khandpur Award-2023 at Osmania University, Hyderabad, on 11th December 2023.
- **Dr. D. Kanthi Sudha**, Assistant Professor delivered a talk on **“Awareness session on Foreign Admissions”** in an Alumni meet Yugma, VNRVJIET on 16th December 2023.



Dr. D. Kanthi Sudha delivering her talk in the Alumni meet

Events Organized

- **“Fresher’s Day”** was conducted for I B.Tech. ECE students on 06th October 2023.
- **Interaction** session regarding the **“Projects to be carried out in Signal Processing and Communication Domains”** by **Dr. J. Chatopadhaya**, Former Director DRDO and Adjunct Faculty in ECE, VNRVJIET with III B.Tech ECE students on 11th October 2023.
- **Webinar** on **“Student Orientation on MATLAB”** by **Mr. T. Ajay Kumar**, MathWorks for II B.Tech. students on 12th October 2023.



Fresher's Day

An investment in knowledge pays the best interest.

—Benjamin Franklin

- VNRVJIET IEEE Hyderabad Section and RAS organized **Dr.Kalam's Legacy Hackathon** on 11th to 15th October 2023.
- **Interaction** session regarding the **"Scope of the projects to be carried out in Embedded Systems and IoT domain"** by **Dr. J. Chattopadhyay**, Former Director DRDO and Adjunct Faculty in ECE, VNRVJIET with III B.Tech ECE students in APJ Abdul Kalam auditorium on 17th October 2023.



Interaction session by Dr. J. Chattopadhyay

- Session on **"Exploring MATLAB and its toolboxes for Research and Academics"** by **Mr. A. Ramana**, MathWorks organized in association with MathWorks for VNRVJIET faculty on 17th October 2023.



Session by Mr. Ramana Anchuri

- **"IoT Hackathon 2k23"** was conducted from 19th to 20th October 2023. (photos)
- Session on **"Introduction to MATLAB & Simulink Onramp courses and test"** by **Mr. P. Ramesh**, Assistant Professor EEE Department, VNR VJIET Hyderabad for ECE faculty on 31st October 2023.



Session by Mr. P. Ramesh



Spiritual Talk by Mr. Amol Bhai

- **Spiritual Talk** on **"Power of Science Vs. Silence,"** by **Mr. Amol Bhai**, Advocate, Supreme Court for I B.Tech. students on 15th November 2023.

- **Parent meeting** was conducted to discuss students' performance with their parents for **I B. Tech. students** on 18th November 2023.



Meditation Program by Mr. Parama Hamsa Gouri Shankarji



Interaction of faculty with parents



- **"Meditation Program"** by **Mr. Parama Hamsa Gouri Shankarji** for II B.Tech. students on 23rd November 2023.
- Workshop on **"PCB Design, Assembly and Testing"** by Technotran Electronic Solutions for II B.Tech. students from 20th to 23rd November 2023.



Students attending workshop on PCB Design, Assembly and Testing
Education is the most powerful weapon which you can use to change the world.



Students attending workshop on PCB Design, Assembly and Testing

- **Workshop** on “**Research Paper Drafting— “Draft-a-thon”**” for ECE faculty on 24th,25th & 29th November 2023.



Faculty attending workshop on Research Paper Drafting- “Draft-a-thon”

Interaction of faculty with parents

- **Parent meeting** was conducted to discuss the performance of students with their parents for **II B.Tech. students** on 25th November 2023.
- **Inauguration** of the VLSI Club "**SiliconX**" by **Mr. Yadagiri**, Analog Engineer, AMD, **Mr. Y. Praveen**, Analog Design Engineer, MOS Chip and **Mr. Sharat Chandra**, MOS Chip on 02nd December 2023.



Inauguration of the VLSI Club "SiliconX" by Mr. Yadagiri, Mr. Praveen Yeguru, and Mr. Sharat Chandra

- **Guest Lecture** on “**How to Crack ESE-GATE-PSUs in 1st attempt**” by **Mr. S. MM Trinath**, Motivational Speaker & Faculty of ACE Engineering Academy for III B.Tech students on 06th December 2023.



Guest Lecture by Mr. S. MM Trinath



Session by Dr. G. Krishna Kanth



The function of education is to teach one to think intensively and to think critically. ...

- **Session** on “**Indian Semicon Talent Vision**”- Insights from Industry Leaders in understanding Rising Demand & Empowering Skills for Future Talent” by **Mr. C. Sanjay**, Corporate Vice President , AMD, **Mr. P. Lakshmikanth** (LK), Sr.Director, Engineering, Qualcomm, **Mr. C. Musunuri**, Sr.Director WW FPGA Solutions, Microchip Technology Inc., **Dr. A.G. Krishna Kanth**, Director R&D, AMS OSRAM Group, AMS Semiconductors India Pvt. Ltd, **Mr. C. Subash**, Sr.Director & ASIC Head, Micron India, **Mr. Kamal Jain**, Country Head, Blaze and **Mr. A. Satish** was organized by VLSI Society of India, IEEE & IIC VNRJIET on 09th December 2023.
- **Technical talk** on “**Satellite Communication**” by **Dr. J. Chattopadhyay**, Former Director DRDO and Adjunct Faculty, VNRVJIET for II B.Tech. students on 12th December 2023.



Technical talk by Dr. J. Chattopadhyay



Webinar by Mr. Yeswanth Kumar

- **Webinar** on “**Job opportunities in VLSI / Semiconductor Industry**” by **Mr. Yeswanth Kumar**, Physical Design Engineer, SiValley Technologies organized by the VLSI club - SiliconX in collaboration with Takshashila Institute of VLSI Technologies for III B.Tech. students on 28th December 2023.



Seminar by Dr. A. Anitha

- **Seminar** on “**Latest Trends in VLSI Technologies and opportunities in the core industries**” by **Dr. A. Anitha**, Systems Design Manager, AMD India Private Limited organized by the VLSI club - SiliconX for II B.Tech. students on 30th December 2023.

Events Attended

Faculty

- **Dr. Y. Padma Sai**, Professor & Dean Student Progression attended **Dr. Kalam's Legacy Hackathon and Technical Talk on Building AI for India** at JNTUH on 12th October 2023.
- **Dr. Y. Chalapathi Rao**, Associate Professor attended the **Technical Talk** on "**High-Performance RF, Millimeter- Wave, and Sub-THz Integrated Circuits and Systems**" by Professor Aritra Banerjee, University of Illinois, Chicago organized by IEEE IISc MTT/AP-S and IEEE IISc VLSI Student Branch Chapter on 12th October 2023.
- **Ms. A. Pravalika**, Assistant Professor attended **FDP** on "**Machine Learning for Real-time Embedded Systems and IoT applications**" organized by CTL NITW in association with CBIT during 17th to 21st October 2023.
- **Ms. Ch. Raja Kumari**, Assistant Professor attended **FDP** on “**Designing, Developing and Delivering Online/Blended Courses**” organized by the Center for Management Research, JIM, Hyderabad from 20th to 21st October 2023.

A person who won't read has no advantage over a person who can't read.

- **Dr. Y. Padma Sai**, Professor & Dean Student Progression and **Dr. V. Priyanka**, Assistant Professor attended **Returning Mothers Conference at Northcap University, Gurgaon, New Delhi** on 26th & 27th October 2023.
- **Dr. Y. Padma Sai**, Professor & Dean Student Progression attended a **Dr. A.S.Rao Memorial Lecture** on the topic "**Are we poised for a complete electric vehicle transition in the next few years?**" by Dr. G. Bhuvaneshwari, IEEE fellow, Prof. EEE, Mahindra University & Former Professor IIT Delhi on 31st October 2023.
- **Dr. D. Kanthi Sudha**, Assistant Professor attended **Five Day Faculty Development Program** on "**Microwave Circuits and Devices** (Virtual mode)" organized by the School of Electronics Engineering (SENSE), Vellore Institute of Technology, Chennai from 06th to 10th November 2023.
- **Mr. T. Aditya Kumar**, Assistant Professor attended the **National Level Faculty Development Program** on "**Emerging Trends in VLSI Device, Circuit & System Design – A Practical Approach**" from 9th to 11th November 2023.
- **Dr. J. L. V. Ramana Kumari**, Assistant Professor, **Ms. K. Jyostna**, Assistant Professor, **Ms. K. Deepthi**, Assistant Professor, **Ms. K. Sangeetha**, Assistant Professor, **Ms. M. Rama Devi** Assistant Professor, **Ms. Y. Manasa**, Assistant Professor attended **Workshop** on "**Information Theory**" at IIIT Hyderabad from 18th to 19th November 2023.
- **Dr. Y. Padma Sai**, Professor & Dean Student Progression, **Dr. P. Kishore**, Associate Professor, **Dr. K. Kalyana Srinivas**, Assistant Professor & **Dr. N. Neelima**, Assistant Professor attended the **APCCAS23 conference** from 19th to 22nd November 2023 at Thub, Hyderabad.
- **Dr. Y. Padma Sai**, Professor & Dean Student Progression attended **Lalitha Memorial Lecture** by Jaya Bhamidipati, Head of R&D and Production, Defense Equipment, ICOMM Tele LTD on 26th November 2023.
- **Dr. V. Krishna Sree**, Associate Professor and **Ms. G. Sahitya**, Assistant Professor attended **Two Weeks International Faculty Development Program** on "**Big Data Analytics**" organized by the Department of Information Technology, VNRVJIET, Hyderabad in collaboration with Excel Edtech Pvt. Ltd. from 04th to 15th December 2023.
- **Dr. Helan Satish**, Assistant Professor attended a **webinar** on "**Non-ionizing Electromagnetic Wave Interactions with Human Tissue: Opportunities for Advancing Healthcare Technologies**" by Professor Susan Hagness, University of Wisconsin–Madison, USA organized by IEEE IISc MTT/AP-S Student Branch Chapter on 07th December 2023.
- **Mr. R. Ravi Kumar**, Assistant Professor attended **EDU Summit "Fostering Innovation & Entrepreneurship through Industry Collaborations"** by Confederation of Indian Industry (CII) at JNTUH on 07th December 2023.
- **Ms. S. Nagaleela**, Assistant Professor participated in the **workshop** on "**Shaping the Future: Semicon Talent Revolution in India**" titled at VNRVJIET on 09th December 2023.
- **Dr. L. Padma Sree**, Professor and **Dr. N. Dhana Lakshmi**, Associate Professor attended **ATAL FDP** on "An Intelligent Data Analysis for Recommendation Systems" organized by IARE from 11th to 16th December 2023.

The great aim of education is not knowledge but action.

—Herbert Spencer

- **Dr. S. Rajendra Prasad**, Professor and Head, **Dr. Ranjan Kumar Senapati**, Professor, **Dr. P. Kishore**, Associate Professor, **Mr. V. Naveen Kumar**, Assistant Professor and **Dr. Pradeep Kumar**, Assistant Professor visited **RCI (Dr. APJ Abdul Kalam Missile Testing Center) ASL Lab** for 'CARS' proposal discussion with Dr. L. Parida, Scientist-G, ASL RCI (DRDO) Hyderabad on 14th December 2023.
- **Ms. A. Sireesha**, Assistant Professor, **Mr. T. Chiranjeevi**, Assistant Professor, **Mr. T. Aditya Kumar**, Assistant Professor, **Mr. V. Pradeep Kumar**, Assistant Professor, **Ms. M. Bhagyalakshmi**, Assistant Professor and **Ms. A. Pravallika**, Assistant Professor attended **seminar** on "Growth of Technical Teachers" and "**Importance of Quality Publication**" by Prof. Sydulu Maheswarapu, Retired Professor, Electrical Department, NIT Warangal & Adjunct Professor, EEE, VNR VJIET organized by IQAC, VNRVJIET on 14th December 2023.
- **Dr. G. Vijay Kumar**, Assistant Professor, **Mr. T. Chiranjeevi**, Assistant Professor and **Dr. N. Subash**, Assistant Professor attended a **One-Week Faculty Development Programme** (Online Mode) on "**Machine Learning Essentials: Applications and Use Cases**" organized by CVR College of Engineering, Hyderabad from 18th to 22nd December 2023.
- **Dr. Y. Padma Sai**, Professor & Dean Student Progression attended **IEEE Women in Engineering 2023 Annual Virtual Awards Ceremony** on 19th December 2023.
- **Mr. C. Kaushik**, Assistant Professor attended **Workshop** on "**Presenting: An Odyssey towards Future Envision of Vignana Jyothi**" organized by CPDT, VNRVJIET 27th & 28th December 2023.
- **Dr. L. Padma Sree**, Professor and **Mr. D. Ramesh Reddy** have collaborated with the Ekalavya Foundation to **distribute 2500 goats and support various businesses in 21 villages of Sirpur** (U) and Lingapur mandals in Asifabad district, Telangana.



Dr. L. Padmasree and Mr. Ramesh Reddy at the village.

Students

- **G. Nandhitha** (23071A04E9) participated in "**RoboJAM Workshop**", conducted by VNRVJIET's National Annual Technical Symposium **CONVERGENCE 2K23**, Experience Innovation on 14th & 15th December 2023.
- **K.Sreemayi** (23071A04N4) **completed introductory course on MATLAB Onramp at VNRVJIET** on 14th & 15th December 2023.
- **A. Dolananda Kumar** (22071A04D2) participated in "**FPGA Workshop**", conducted by VNRVJIET's National Annual Technical Symposium **CONVERGENCE 2K23**, Experience Innovation on 14th & 15th December 2023.
- **A. Dolananda Kumar** (22071A04D2), **B. Sandeep** (22071A04D3), **M. Nishritha** (22071A04F8), **P. Radhakrishna** (22071A04HI), Pusthem Soumya (22071A04H4), Ruttala Prawallika (22071A04H7), **V. Srinija** (22071A04J7) participated in "**IoT SPRINT 2k3 Hackathon**" organized by Department of ECE, VNRVJIET on 19th & 20th October 2023.
- **M. Nishritha** (22071A04F8) participated in **two day workshop** on "**PCB Design, Assembly and Testing**" under industry oriented skill development program organized by Department of ECE, VNRVJIET on 20th & 21st November 2023.

- **S. Prabhash** (2207IA04H9), **Jai Ram** (2207IA04J4) participated in “**BUILD-A-THON**” conducted by The Institution of Engineers (India) (IE(I)) at VNRVJIET from 22nd to 24th November 2023.
- **M. Vasanth** (2207IA04G0) participated in the **online Quiz** on “**Quality & Reliability**” organized by Reliability Society chapter, IEEE Hyderabad section on 10th December 2023.
- **G. Nandhitha** (2307IA04E9) attended “**Drontastic Adventures**” session on UAV drone simulation and Control Systems in MATLAB and Simulink by Mathletes VNRVJIET on 24th December 2023.

Online Certifications

Faculty

Number of NPTEL Courses	Number of Faculty	Elite	Elite+Silver	Successfully Completed
3	3	1	1	2

Following is the list of faculty who successfully completed NPTEL courses

S.No.	Faculty Name	Course Name
1	Dr. Ch. Anil Kumar	Data Science for Engineers
2	Ms. Y. Manasa	Introduction to Internet of Things
3	Mr. V. Naveen Kumar	Problem Solving through Programming in C
4	Dr. Ch. Anil Kumar	Problem Solving through Programming in C

Students

Number of NPTEL Courses	Number of Students	Elite	Elite + Gold	Elite+Silver	Successfully Completed
15	51	34	1	5	15

The great difficulty in education is to get experience out of ideas.

—George Santayan

Following is the list of student who successfully completed NPTEL courses

S.No.	Student Name	Roll No.	Name of the Course
1	K. Omkumar	19071A04K8	VLSI Design Flow: RTL to GDS
2	Abubaker	20071A0401	Programming, Data Structures and Algorithms using Python
3	A. Vamsi Krishna	20071A0403	Programming, Data Structures and Algorithms using Python
4	C. Manohar	20071A0411	Programming, Data Structures and Algorithms using Python
5	C. Gopichand	20071A0412	Programming, Data Structures and Algorithms using Python
6	G. Rahul	20071A0425	Programming, Data Structures and Algorithms using Python
7	G. Rahul	20071A0425	VLSI Design Flow: RTL to GDS
8	J. Abhinay	20071A0427	Programming, Data Structures and Algorithms using Python
9	Mohd. Afsar Hussain	20071A0440	Programming, Data Structures and Algorithms using Python
10	G. Jeevana sai	20071A0476	Python for Data Science
11	M. Ashritha	2007A10492	Python for Data Science
12	T. Abhishek	20071A04B4	Introduction to Operating Systems
13	D. Harini	20071A04D0	Introduction to Machine Learning - IITKGP

14	T. Lohita	20071A04H3	Programming, Data Structures and Algorithms using Python
15	V. Kranthi Kumar	20071A04H5	Transducers for Instrumentation
16	A. Harshavardhan	20071A04J1	Introduction to Machine Learning - IITKGP
17	A. Pavandheeraj	20071A04J2	Introduction to Machine Learning - IITKGP
18	S. Akula	20071A04J4	Programming in Java
19	A. Sainath	20071A04J4	Introduction to Machine Learning - IITKGP
20	A. Ummadi	20071A04J5	Introduction to Machine Learning - IITKGP
21	G. Akshitha	21071A04K6	Data Base Management System
22	K. Sravani	20071A04M4	Introduction to Machine Learning - IITKGP
23	K. Meghana	20071A04N4	Introduction to Machine Learning - IITKGP
24	M. Meera Hussain	20071A04N9	Programming, Data Structures and Algorithms using Python
25	M. Sai Sriram Adithya	20071A04P0	Introduction to Machine Learning - IITKGP
26	P. V. Varun	20071A04P4	Python for Data Science
27	S. Soumith Sharma	20071A04P9	Introduction to Machine Learning - IITKGP

28	V. Venkata Srikar	2007IA04Q4	Python for Data Science
29	V. Surya Pramod	2007IA04Q6	Introduction to Machine Learning - IITKGP
30	S. Nikhitha	21075A04I7	System Design Through Verilog
31	G. Deepika Meduri	2107IA0436	Essential Mathematics for Machine Learning
32	MeghanaChandana	2107IA0437	Essential Mathematics for Machine Learning
33	N. Shruthi	2107IA0440	Essential Mathematics for Machine Learning
34	Vishwapriya	2107IA0463	Essential Mathematics for Machine Learning
35	B L S Lokesh	2107IA0471	Cloud Computing
36	Harsha Vardhan	2107IA0489	Introduction to Internet of Things
37	T. Adithya Phani	2107IA0490	Programming, Data Structures and Algorithms using Python
38	M. Pranav Reddy	2107IA04A6	Advanced Algorithmic Trading and Portfolio Management
39	M. Pranav Reddy	2107IA04A6	Essential Mathematics for Machine Learning
40	C. Ramamurthy	2107IA04E1	Essential Mathematics for Machine Learning
41	D. Sai Jeevan Srikar	2107IA04E3	Essential Mathematics for Machine Learning
42	D. Sai Srikar	2107IA04E5	Multi-Core Computer Architecture

Education then, beyond all other devices of human origin, is the great equalizer of the conditions of men, the balance-wheel of the social machinery.

43	D. Sai Srikar	21071A04E5	Essential Mathematics for Machine Learning
44	E. Venugopal	21071A04E6	Essential Mathematics for Machine Learning
45	Hakeem Avilash	21071A04F3	Essential Mathematics for Machine Learning
46	J. Venkat Sai Karthikeya	21071A04F5	Essential Mathematics for Machine Learning
47	S. Siddhartha	21071A04J3	Essential Mathematics for Machine Learning
48	A. Vasavi	21071A04K4	Cloud Computing
49	D. Vara Satya Sai Prasad	20071A04K6	Introduction to Machine Learning - IITKGP
50	G. Shivani	21071A04N1	Data Base Management System
51	K. Yogishwar Sai	21071A04P5	Programming, Data Structures and Algorithms using Python
52	V. Venkatasai	21071A04T6	Python for Data Science
53	A. Suraj	22075A0422	Introduction to Machine Learning
54	M. Rishitha	22071A04A1	Ethical Hacking
55	K. Bhargavi	22071A1028	Programming In Java

Training, Internships and Placements

Training

- III Year and IV year B.Tech. students were trained in concepts of Analog Circuits, Digital Communication, Electronic Devices, Electrical Circuits and Signals & Systems.

S.No.	Particulars of the event	Beneficiaries
1	Core: Training Program on "Analog Circuits" by Mr. Satyanarayana, Faculty, ACE Academy on 04th, 05th & 24th November 2023	III & IV B.Tech. students
2	Core: Training Program on "Nyquist Criteria" by Mr. E. Vijaya Babu, Assistant Professor on 28th November 2023	III & IV B.Tech. students
3	Core: Training Program on "Electronic Devices" by Mr. Satyanarayana, Faculty, ACE Academy on 25th & 27th November 2023	III & IV B.Tech. students
4	Core: Training Program on "Analyzing Electrical Circuits and Signals & Systems" by Dr. S. Rajendra Prasad, Professor & Head and Mr. E. Vijaya Babu, Assistant Professor on 07th, 08th, 10th, 14th & 21st December 2023	III & IV B.Tech. students

Internships

S.No.	Roll Number	Name of the Student	Year & Section	Name of the company	Duration	Amount of Stipend
1.	20071A0420	G. Sai Priya	IV ECE A	AIILA INNOVATION PVT LTD	03-10-2023 to 03-04-2024	15000
2.	21071A0450	Mehtab Shaik	III ECE A	T-Works	07-11-2023 to 07-05-2024	8000

I believe that education is all about being excited about something. Seeing passion and enthusiasm helps push an educational message.

—Steve Irwin



During my internship at Synopsys, I delved deep into developing code and working with Process Design Kits (PDKs). It was an exhilarating experience, combining my passion for coding with the intricacies of semiconductor design. Collaborating with seasoned professionals, I tackled challenging projects, refining my skills and expanding my understanding of the industry. This hands-on involvement not only honed my technical abilities but also provided invaluable insights into the inner workings of cutting-edge technology.

- P. Harshitha

I never knew the actual market of embedded systems until I went to the 3 months internship at Zentree Labs Pvt Ltd. Initially, I got a tutorial on embedded C. I executed different programs on the Linux operating system. That was my first ever experience with Linux. Then, I learned how efficiently data structures were used in the embedded industry. After this, I went through the Linux operating system tutorial, and in the end, I showcased my learning by working on a project with the senior engineers within the company



- A. Satya Srujan



I am currently pursuing an internship at Synopsys and firstly I would like to thank faculty and placement coordinators of my college VNR VJIET who helped me bag this opportunity and Synopsys is a great place to work for any aspirant who loves VLSI and it's been an immense knowledge gaining experience with new learnings everyday, working on projects and gaining realtime experience.

- K. Naga Vaishnavi

Placements

Placement details of B.Tech. (2019 – 2023) batch up to December 2023

No. of Students placed	Highest Package (Lakhs)	Average Salary (Lakhs)
113	19.75	5.97
50 % of the students got placed with an average salary of 5.97 LPA		

No two men see the world exactly alike, and different temperaments will apply in different ways a principle that they both acknowledge.

-Johann Wolfgang von Goethe

PhD Awarded



Mr. A. Ramesh Kumar on his Ph.D viva-voce

- **Mr .A. Ramesh Kumar**, Associate Professor successfully completed Ph.D viva-voce titled “**VLSI Implementation of High Performance Matched Filter For Wireless Systems**” at Osmania University under the supervision of **Dr.K.Lal Kishore**, Professor, Osmania University on 09th October 2023.

Research and Development Activities

Project Applied

- **Dr. S. Ranjan Kumar**, Professor & **Dr. S. Rajendra Prasad**, Professor & Head applied a project titled “**Mutimodal operator authentication for standalone system**” to ASL (DRDO)-CARS for an amount of Rs.7.50 Lakhs on 11th October 2023.
- **Dr. N. Subash**, Assistant Professor & **Dr. K. Kalyana Srinivas**, Assistant Professor applied a project titled “**AI Based Multilevel Secured Data Transfer using Steganography**” to SERB SURE for an amount of Rs. 27.09 Lakhs on 29th November 2023, Ref No: 132023003423.
- **Dr. T. Srinivas**, Assistant Professor, **Dr. J. L. V. Ramana Kumari**, Assistant Professor & **Dr. Ch. Anil Kumar**, Assistant Professor applied a project titled “FPGA Based AI Supported Intrusion Detection System for Cyber Attacks” to SERB-SURE for an amount of Rs. 28.78 Lakhs on 14th December 2023, SUR/2023/002808.
- **Dr. S. Rajendra Prasad**, Professor & Head & **Dr. P. Kishore**, Associate Professor applied a project titled “**Design and Development of ASIC based Low Power and High Resolution GNSS receiver for wearable applications**” to SERB-SURE for an amount of Rs. 29.91 Lakhs on 15th December 2023, File No: 132023008082.

Patent Granted

- **Dr. K. Kalyana Srinivas**, Assistant Professor, **Dr. Y. Chalapathi Rao**, Associate Professor & **Dr. S. Rajendra Prasad**, Professor & Head Design number: 6319495 titled “**Dual Radio Frequency Receiver Antenna Cum Solar Panel**” granted design patent on 23rd October 2023.

Memorandum of Understanding

- Department of ECE collaborated with **Synopsys India** and signed Memorandum of Understanding (**MoU**) on 4th October 2023. Dr.Sankalp Kumar Singh, Head EDA tools, Dr. Alivelu Mangatayaru, Mr. Balakrishna, Mr. Prasanth from Synopsys attended the event. (need to modify the sentence) (include in correct place)
- Department of ECE has signed a Memorandum of Understanding (**MOU**) with **Silicon Labs**. This MoU proposed to establish a Silicon Lab Innovation Centre at VNRVJIET to help prepare engineering talent for successful careers.



MoU with Synopsys

Everyone who remembers his own education remembers teachers, not methods and techniques. The teacher is the heart of the educational system.

Journals/ Conferences/ Book Chapters

Number of Conferences: 27

Number of Journals: 5

Number of Books: 1

S.No.	Name of the Faculty	Title of the paper	Conference/Journal
1	Dr. Y. Chalapathi Rao Associate Professor	FPGA Based Smart Home Automation Device Controller	6th International Online Conference on Electronics, Materials Engineering & Nano-Technology, IEMENTech 2022 from 02nd to 04th December 2022 organized by Department of ECE, Institute of Engineering & Management.
2	Ms. Y. Manasa Assistant Professor	Design of LIFI Based Under Water Communication System	5th International Conference on Recent Advancements in Engineering and Technology ICRAET-2023 on 19th & 20th May 2023 organized by Organized by Institute For Engineering Research and Publication (IFERP). Published on May 2023.
3	Mr. D. Ramesh Reddy Assistant Professor	Leaf Disease Identification with Multi-label Classification of Various Plants Using Dense CNN Model	International Conference on Intelligent Systems and Sustainable Computing (ICISSC 2022) on 16th & 17th December 2022 organized by Malla Reddy University. Published on 03rd October 2023.
4	Ms. S. Nagaleela Assistant Professor	Design of DADDA Multiplier Using High Performance and Low Power Full Adder	2023 14th International Conference on Computing Communication and Networking Technologies (ICCCNT-2023) from 06th to 08th July 2023 organized by Electrical Department, IIT Delhi by IEEE Delhi section. Published on 23rd November 2023.

5	Dr. G. Shanthi Assistant Professor	Design of Low Power Turbo Coder for Low Energy Mobile Communications	2023 14th International Conference on Computing Communication and Networking Technologies (ICCCNT-2023) from 06th to 08th July 2023 organized by Electrical Department, IIT Delhi by IEEE Delhi section. Published on 23rd November 2023.
6	Dr. G. Shanthi Assistant Professor	Novel Type RF Mems Switch-Design and Analysis for Integration of Band Reject Filters For Ku-Band Applications	Text Book , ISBN Number : 978-81-965912-9-8
7	Mr. B. B. Shabarinath Assistant Professor	PYNQ Overlay for SVM-based Melanoma Classification with Learning Ability	2023 14th International Conference on Computing Communication and Networking Technologies (ICCCNT-2023) from 06th to 08th July 2023 organized by Electrical Department, IIT Delhi by IEEE Delhi section. Published on 23rd November 2023.
8	Dr. Ranjan K. Senapati Professor	Robust Video Watermarking Using Bacteria Foraging Optimization	Proceedings of the 02nd International Conference on Emerging Trends in Engineering (ICETE 2023) from 28th to 30th April 2023 organized by Department of ECE, OU College of Engineering, technically cosponsored by Atlantis press Springer. Published on 9th November 2023.
9	Dr. Ranjan K. Senapati Professor	Image-To-Image Translation Using Pix2Pix GAN and Cycle GAN	International Conference on Data Intelligence and Cognitive Informatics (ICDICI 2023) on 27th & 28th June 2023 organized by SCAD College of Engineering and Technology, Tirunelveli, Tamil Nadu cosponsored by Springer. Published on 07th January 2024.

10	Dr. V. Priyanka Assistant Professor	An Efficient Method for the Data Monitoring of Photovoltaic Solar Panel	2023 14th International Conference on Computing Communication and Networking Technologies (ICCCNT-2023) from 06th to 08th July 2023 organized by Electrical Department, IIT Delhi by IEEE Delhi section. Published on 23rd November 2023.
11	Dr. V. Priyanka Assistant Professor	An Efficient Approach for Denoising ECG Signal using 4-Tap FIR Filter	2023 14th International Conference on Computing Communication and Networking Technologies (ICCCNT-2023) from 06th to 08th July 2023 organized by Electrical Department, IIT Delhi by IEEE Delhi section. Published on 23rd November 2023.
12	Mr. A. Ramesh Kumar Associate Professor	Machine learning for IoT-based smart farming	Journal of Advanced Zoology vol. no. 44, Special Issue-3, pp. 1294-1298. Published on 01st November 2023.
13	Mr. A. Ramesh Kumar Associate Professor	High performance FIR Architecture for EOG Signal Noise Supression	2023 14th International Conference on Computing Communication and Networking Technologies (ICCCNT-2023) from 06th to 08th July 2023 organized by Electrical Department, IIT Delhi by IEEE Delhi section. Published on 23rd November 2023.
14	Dr. A. Sai Kumar Assistant Professor	An Efficient FSR-based Approach for Self Notifying Chairs to Minimize Long Duration Sitting Postures	2023 14th International Conference on Computing Communication and Networking Technologies (ICCCNT-2023) from 06th to 08th July 2023 organized by Electrical Department, IIT Delhi by IEEE Delhi section. Published on 23rd November 2023.

15	Dr. A. Sai Kumar Assistant Professor	IoT Based Water Quality Monitoring for Smart Aquaculture	2023 14th International Conference on Computing Communication and Networking Technologies (ICCCNT-2023) from 06th to 08th July 2023 organized by Electrical Department, IIT Delhi by IEEE Delhi section. Published on 23rd November 2023.
16	Dr. A. Sai Kumar Assistant Professor	Development of Face Recognition-Based Smart Door Lock System with Remote Servo Control Authentication	2023 14th International Conference on Computing Communication and Networking Technologies (ICCCNT-2023) from 06th to 08th July 2023 organized by Electrical Department, IIT Delhi by IEEE Delhi section. Published on 23rd November 2023.
17	Dr. A. Sai Kumar Assistant Professor	Smart Glasses for Visually Impaired People using Machine Learning	2023 14th International Conference on Computing Communication and Networking Technologies (ICCCNT-2023) from 06th to 08th July 2023 organized by Electrical Department, IIT Delhi by IEEE Delhi section. Published on 23rd November 2023.
18	Dr. A. Sai Kumar Assistant Professor	Credit Card Fraud Detection with Auto Encoders and Artificial Neural Networks	2023 14th International Conference on Computing Communication and Networking Technologies (ICCCNT-2023) from 06th to 08th July 2023 organized by Electrical Department, IIT Delhi by IEEE Delhi section. Published on 23rd November 2023.
19	Ms. K. Aruna Kumari Assistant Professor	An Ensemble Learning Approach For Improved Skin Cancer Classification	2023 14th International Conference on Computing Communication and Networking Technologies (ICCCNT-2023) from 06th to 08th July 2023 organized by Electrical Department, IIT Delhi by IEEE Delhi section. Published on 23rd November 2023.

20	Ms. K. Aruna Kumari Assistant Professor	Inception Inspired U-Net for Effective Segmentation of Microscopy Images	2023 14th International Conference on Computing Communication and Networking Technologies (ICCCNT-2023) from 06th to 08th July 2023 organized by Electrical Department, IIT Delhi by IEEE Delhi section. Published on 23rd November 2023.
21	Dr. P. Kishore Associate Professor	Design of High Performance Adders Using Quantum Dot Cellular Automata (QCA)	2023 14th International Conference on Computing Communication and Networking Technologies (ICCCNT-2023) from 06th to 08th July 2023 organized by Electrical Department, IIT Delhi by IEEE Delhi section. Published on 23rd November 2023.
22	Dr. P. Kishore Associate Professor	Implementation of Optimized Logic Gate Circuits with Majority Voter using QCA Technology	2023 14th International Conference on Computing Communication and Networking Technologies (ICCCNT-2023) from 06th to 08th July 2023 organized by Electrical Department, IIT Delhi by IEEE Delhi section. Published on 23rd November 2023.
23	Ms. K. Jyostna Assistant Professor	Fuzzy System based Weights for Energy Detection in Cognitive Vehicular Networks	2023 14th International Conference on Computing Communication and Networking Technologies (ICCCNT-2023) from 06th to 08th July 2023 organized by Electrical Department, IIT Delhi by IEEE Delhi section. Published on 23rd November 2023.
24	Ms. K. Jyostna Assistant Professor	Weighted Adaptive Spectrum Sensing for Cognitive Vehicular Networks	2023 14th International Conference on Computing Communication and Networking Technologies (ICCCNT-2023) from 06th to 08th July 2023 organized by Electrical Department, IIT Delhi by IEEE Delhi section. Published on 23rd November 2023.

There should be a balance between material and spiritual progress, a balance achieved through the principles based on love and compassion.

25	Mr. C. Kaushik Assistant Professor	Energy efficient robust tree-based routing protocol for wireless sensor networks	2023 14th International Conference on Computing Communication and Networking Technologies (ICCCNT-2023) from 06th to 08th July 2023 organized by Electrical Department, IIT Delhi by IEEE Delhi section. Published on 23rd November 2023.
26	Mr. C. Kaushik Assistant Professor	A Novel Approach for Real Time Traffic Prediction Using Deep Learning in VANET	2023 14th International Conference on Computing Communication and Networking Technologies (ICCCNT-2023) from 06th to 08th July 2023 organized by Electrical Department, IIT Delhi by IEEE Delhi section. Published on 23rd November 2023.
27	Mr. V. Naveen Kumar Assistant Professor	Pulmonary Sound Analysis with Deep Learning for Efficient Respiratory Disease Categorization	02nd International Conference on Emerging Trends in Engineering (ICETE 2023) from April 28th to 30th April 2023 organized by Osmania University, Hyderabad. Published on 09th November 2023.
28	Dr. Santosh Kumar Choudhary Assistant Professor	Real Time Biometric Authentication System Using ECG	2023 14th International Conference on Computing Communication and Networking Technologies (ICCCNT-2023) from 06th to 08th July 2023 organized by Electrical Department, IIT Delhi by IEEE Delhi section. Published on 23rd November 2023.
29	Mr. D. Ramesh Reddy Assistant Professor	SeedAI: A Novel Seed Germination Prediction System using Dual Stage Deep Learning Framework	Environmental Research Communications , volume 5, number 12. Published on 29th December 2023

30	Mr. D. Ramesh Reddy Assistant Professor	Real-Time Seed Detection and Germination Analysis in Precision Agriculture: A Fusion Model With U-Net and CNN on Jetson Nano	IEEE Transactions on AgriFood Electronics Volume: 1, Issue: 2. Published on 05th December 2023
30	Mr. D. Ramesh Reddy Assistant Professor	Real-Time Seed Detection and Germination Analysis in Precision Agriculture: A Fusion Model With U-Net and CNN on Jetson Nano	IEEE Transactions on AgriFood Electronics Volume: 1, Issue: 2. Published on 05th December 2023
31	Dr. R. Sravanth Kumar Assistant Professor	The Virtual Keyboard Is Accessible Using Wireless EEG Device for Patient's with Paralysis	02nd International Conference on Emerging Trends in Engineering (ICETE 2023) from April 28th to 30th April 2023 organized by Osmania University, Hyderabad. Published on 09th November 2023.
32	Dr. R. Sravanth Kumar Assistant Professor	Adversarial ML-Based Secured Cloud Architecture for Consumer Internet of Things of Smart Healthcare	IEEE Transactions on Consumer Electronics , Volume 70, Issue 1, February 2024, pp. 2058-2065. Published on 12th December 2023.
33	Dr. Y. Chalapathi Rao Associate Professor	Deep Learning based Millimeter Wave/Sub-THz RMIMO-OFDM Systems with Beamforming Wireless communication	International Journal of Membrane Science and Technology Volume 10, Issue 4, pp. 1503-1516. Published on October 2023.

Take courage and work on. Patience and steady work - this is the only way.

Work on; remember - patience and purity and courage and steady work. . . . So long as you are pure, and true to your principles, you will never fail.



3rd October
2023

ATL Madhapur, Hyderabad

Insights

- Anant Technologies Limited is a renowned company in the field of electronics, telecommunications, and information technology.
- This visit aimed to provide students with practical insights into the operations and technologies employed by a prominent electronics and communications company.
- The entire production process, from the assembly of electronic components to the final quality control checks was witnessed.
- Manufacturing of electronic and mechanical subsystems for launch vehicles, satellites, spacecraft payload and ground system was viewed
- Mounting components on PCB was observed.
- Surface Mounting Technology was explained briefly.
- It was shown how the equipment used in the missiles are tested at -40 degrees and how they undergo high pressure and acceleration tests.
- The interactions with engineers and technicians were incredibly valuable as they provided us with a glimpse into the diverse career opportunities available in the electronics and communications industry.

To teach is to learn twice.

—Joseph Joubert



Astra Microwave Products Ltd.

19th October, 2023

Insights

- Astra Microwave Products Limited (AMPL) was incorporated in 1991 by a team of distinguished scientists with experience in RF/Microwave/Digital electronics and management of projects with high technology content.
- The visit gave a glimpse into the real world of antennas, how they are fabricated, tested and where they are used.
- Pyramids made of polyurethane form were found on the walls and door of anechoic chamber to avoid reflections and the pyramidal shape of the foam controls the reflections.
- The radiation pattern obtained in the system can be viewed in both cartesian and polar modes.
- Along with anechoic test, antenna was also tested in the outdoors. The outdoor test is done on the terrace where the test antenna is placed on a 2 m high pole.
- In fabrication rooms, arrays, which are sectorial parts of antenna were viewed.
- An antenna which was used in Agni-5 was seen. The antennas are coated with special paints that allow them to be seen at night was observed.

INDUSTRIAL VISIT GALLERY

Visit to Astra Microwave Products Ltd.



Industrial visit to Astra Microwave Products Ltd.



Visit Astra Microwave Products Ltd.

Education breeds confidence. Confidence breeds hope.
Hope breeds peace.

—Confucius

Upcoming Events

- International Conference on COMmunication Systems & NETworkS (COMSNETS 2024), 03rd to 07th January 2024, Bangalore Karnataka.
- 4th International Conference on Smart Grid and Renewable Energy (SGRE 2024), 08th to 10th January 2024, Doha, Qatar.
- 16th IEEE/SICE International Symposium on System Integration (SII 2024), 08th to 11th January 2024, Ha Long Vietnam.
- IEEE 3rd International Conference on Control, Instrumentation, Energy, and Communication (CIEC24), 25th to 27th January 2024, University of Calcutta.
- International Conference on Internet of Things, Big Data Analytics and Information Technology (ICITBDIT), 30th January 2024, Chennai.
- International Conference on Advanced Communications Technology (ICACT 2024), 03rd to 07th February 2024, South Korea.
- Global Information Infrastructure and Networking Symposium (GIIS 2024), 19th to 21st February 2024, Dubai, United Arab Emirates.
- International Conference on Computing, Networking and Communications (ICNC 2024), 19th to 22nd February 2024, United States.
- International Conference on Artificial Intelligence in Information and Communication (ICAIIIC 2024), 19th to 22nd February 2024, Osaka, Japan.
- IEEE 18th International Conference on Advanced Motion Control (AMC 2024), 28th February to 01st March 2024, Kyoto, Japan.
- 11th International Conference on Computing for Sustainable Global Development, 28th February to 01st March 2024 at Bharati Vidyapeeth, New Delhi.
- National Conference on Communications (NCC 2024), 28th February to 02nd March 2024, Chennai, Tamil Nadu.
- 6th IEEE Bombay Section Signature Conference (IBSSC-2024), 29th February to 02nd March, 2024, Aurangabad.
- IEEE International Energy Conference (ENERGYCON 2024), 04th to 07th March 2024, Doha, Qatar.
- 6th IEEE International Conference on Emerging Smart Computing and Informatics (ESCI-2024), 05th to 07th March 2024, Pune.
- Conference on Innovation in Clouds, Internet and Networks and Workshops 2024 (ICIN 2024), 11th to 14th March 2024, Paris, France.
- IEEE International Conference on Industrial Technology (ICIT 2024), 25th to 27th March 2024, Bristol, UK.

Develop success from failures. Discouragement and failure are two of the surest stepping stones to success.

—Dale Carnegie

- International Conference on COMmunication Systems & NETworkS (COMSNETS 2024), 03rd to 07th January 2024, Bangalore Karnataka.
- 4th International Conference on Smart Grid and Renewable Energy (SGRE 2024), 08th to 10th January 2024, Doha, Qatar.
- 16th IEEE/SICE International Symposium on System Integration (SII 2024), 08th to 11th January 2024, Ha Long Vietnam.
- IEEE 3rd International Conference on Control, Instrumentation, Energy, and Communication (CIEC24), 25th to 27th January 2024, University of Calcutta.
- International Conference on Internet of Things, Big Data Analytics and Information Technology (ICITBDIT), 30th January 2024, Chennai.
- International Conference on Advanced Communications Technology (ICACT 2024), 03rd to 07th February 2024, South Korea.
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- 11th International Conference on Computing for Sustainable Global Development, 28th February to 01st March 2024 at Bharati Vidyapeeth, New Delhi.
- National Conference on Communications (NCC 2024), 28th February to 02nd March 2024, Chennai, Tamil Nadu.
- 6th IEEE Bombay Section Signature Conference (IBSSC-2024), 29th February to 02nd March, 2024, Aurangabad.
- IEEE International Energy Conference (ENERGYCON 2024), 04th to 07th March 2024, Doha, Qatar.
- 6th IEEE International Conference on Emerging Smart Computing and Informatics (ESCI-2024), 05th to 07th March 2024, Pune.
- Conference on Innovation in Clouds, Internet and Networks and Workshops 2024 (ICIN 2024), 11th to 14th March 2024, Paris, France.
- 3rd International Conference On Innovations and Research in Sciences, Technology, Commerce, Business Management, Social Science and Humanities for Sustainable Development Organized by Sukh Chandra Mishra Industrial Training Institute, Paktola, Radhi, Darbhanga Bihar, India on 16th & 17th March 2024.

Tech News

- NASA and a few US laboratories are collaborating on a NASA-funded experiment called Lusee-Night (Lunar Surface Electromagnetic Experiment Night) that will launch on the far side of the Moon in 2025. The experiment aims to hunt for ancient radio signals from the cosmic Dark Ages over 14 billion years ago.
- Researchers at IIT Hyderabad are developing an Urban Flood Information System (UFIS) to minimize the effects of urban flooding in Hyderabad. The system will collect and analyze flood-relevant data, simulate and forecast rainfall study flood-relevant data, simulate and forecast rainfall, study flood depths and extent and develop products for policymakers and stakeholders.
- The launch of "Gaganyaan" Test Vehicle Space flight, that is, "Gaganyaan" Test Vehicle Development flight (TV-D1) is scheduled on 21 October 2023.
- Announcing the date for a crucial test in preparation for India's human spaceflight mission, space minister Jitendra Singh said that ISRO will launch the "Gaganyaan" test vehicle space flight (TV-D1) on October 21. ISRO will also test the efficacy of the crew escape system, which is the crucial part of the 'Gaganyaan' mission, resulting in unmanned and manned missions to outer space by 2024.
- IIT-Madras-incubated startup launches hybrid vertical takeoff and landing drone for cargo transport.
- India's 1st private sector rocket facility in unveiled Hyderabad: Hyderabad-based spacetechnology startup Skyroot Aerospace is preparing to launch its first orbital space launch vehicle, Vikram-1, in early 2024. The rocket, made entirely of carbon fibre with 3D-printed liquid engines, has a payload capacity of around 300 kg and can place satellites in lower earth orbit. Skyroot aims to provide affordable and reliable launch solutions for satellite constellations.
- Skyroot unveils Vikram-1 that will launch satellites next year.
- Qualcomm launches Snapdragon X Elite CPUs for PCs, rivals Apple's M series chipsets.
- American chipmaker Advanced Micro Devices (AMD) is going ahead with its \$400 million investment to build its largest design centre at Bangalore and will use the Indian workforce every aspect of its global portfolio as it sees the semiconductor engagement in the country expanding rapidly.
- ISRO prods Indian youth to design robotic rovers for future missions.
- AMD opens largest design centre in Bengaluru and plans to employ around 3000 engineers in the coming years, focused on the design and development of semiconductor technology including 3D stacking, artificial intelligence, machine learning and more.
- ISRO gears up to bring Lunar samples on Chandrayaan-4.

Anyone who stops learning is old, whether at twenty or eighty.

Anyone who keeps learning stays young.

—Henry Ford

Articles

Deciphering Children's Behavior: A Comprehensive Exploration of Psychology for Parents and Educators

Understanding the complexities of children's behavior is a multifaceted journey crucial for both parents and educators. Each behavior exhibited by children serves as a window into their developing minds, offering insights into their cognitive, emotional, and social growth. From the earliest stages of infancy, when cries and smiles convey basic needs and emotions, to the tumultuous toddler years marked by tantrums and exploration, children's behaviors reflect their evolving understanding of themselves and the world around them.

Central to children's behavioral development is the establishment of secure attachments and the quality of early caregiving experiences. Secure attachments provide children with a safe emotional base from which to explore their environment, fostering the development of emotional regulation and resilience. Conversely, insecure attachments can manifest in behavioral challenges as children struggle to navigate their emotions and relationships.

As children progress through their developmental milestones, peer interactions become increasingly influential in shaping their behavior and social skills. Through play, cooperation, and conflict resolution, children learn vital social norms, empathy, and communication skills. Positive peer relationships contribute to a sense of belonging and self-esteem, while negative experiences may lead to social withdrawal or aggression.

Moreover, children's unique temperamental traits play a significant role in shaping their responses to stimuli and stressors. Some children may exhibit high levels of adaptability and approachability, while others may be more reserved or sensitive to change. Understanding these individual differences allows parents and educators to tailor their support strategies to meet each child's specific needs.



A teacher affects eternity; he can never tell where his influence stops.

—Henry Brooks Adams

Parenting styles and discipline strategies also play a pivotal role in shaping children's behavior, Authoritative parenting, characterized by warmth, responsiveness, and clear boundaries, is associated with positive outcomes such as self-regulation and academic success. Conversely, authoritarian or permissive parenting styles may contribute to behavioral problems or low self-esteem. Creating environments that support positive behavior involves a combination of nurturing relationships, open communication, and consistent guidance.

-K.Chaya Vaishnavi
22071A0427

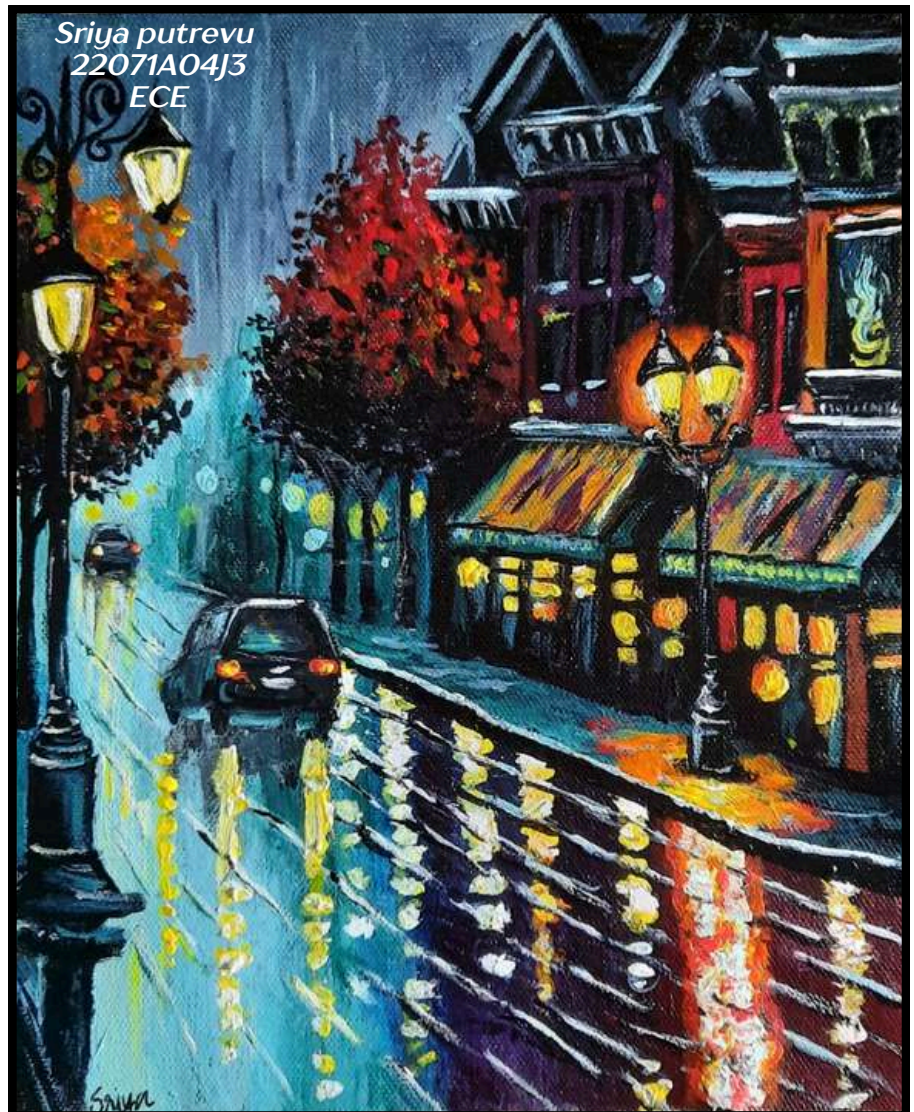
Creative
Corner

Sahithy
21071A04A2
ECE B



Aishwarya
20071A0402
ECE A

Sriya putrevu
22071A04J3
ECE



Saketh
21071A04R6
ECE D



A good teacher must be able to put himself in the place of those who find learning hard.

—Eliphaz Levi

DEAR BIRD

Dear bird, take me with you,
I wanna fly, fly free like you.
Dear kid, I wanna be like you,
Having a home to come back to.
No matter how long I fly I can never find one,
Where ever I go, I want to come back to a home.

Please dear bird, take me with you,
Gliding through the rain I wanna feel free too.
Little bird, come back and take me too,
I wanna fly, fly free like you.

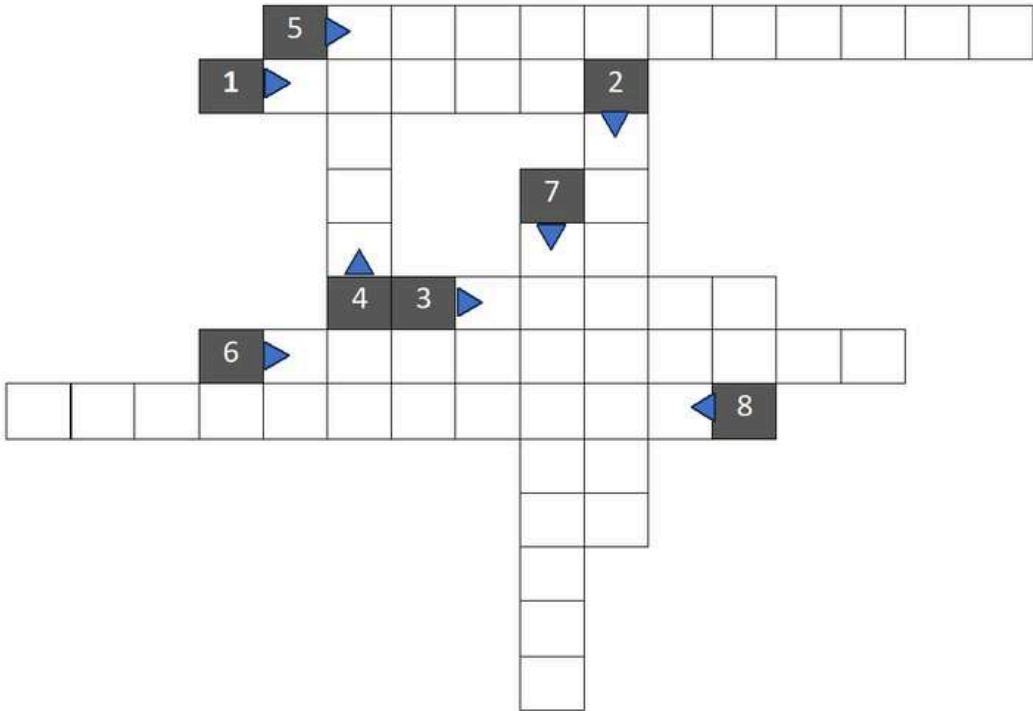
Dear Kid, I wanna be like you
Hiding in a sheltered house during hail storms and thunders
Freedom of choice and not struggle to survive
Where ever I go, I want to come back to a home.


Please dear bird, take me with you
I wanna fly, fly free like you.
Dear Kid, I wanna be like you
Where ever I go, I want to come back to a home.

-B. Chandana
22071A0409

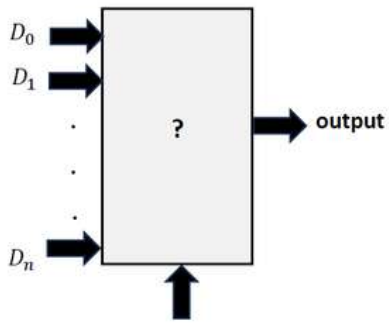
One child, one teacher, one book, and one pen can change the
world.

To solve or not to?



- 1 Units of Inductance.
- 2 Abbreviation of "K" in K-Maps.
- 3  This symbol represents _____ diode.
- 4 ROC (Region of Convergence) of Z-Transform cannot contain _____.

- 5 Imaginary part of Admittance.
- 6 Ratio of Amplitude of Message signal to Amplitude of Carrier signal is _____ index.
- 7 _____ theorem states that - "For any given time, the sum of power delivered to each branch of any electric network is zero".
- 8 The block diagram below represents _____.



Solution to the puzzles of the previous issue.

- 1 Rules
- 2 THERMISTOR

The pessimist sees difficulty in every opportunity. The optimist sees opportunity in every difficulty.
 —Winston Churchill

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