



# 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

July- September 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.

<b>S.No.</b>	<b>Contents</b>	<b>Page No.</b>
1	Foreword	1
2	Faculty Updates	2
3	Whizz-kids	2-4
4.	Awards & Recognitions	4-6
5	Guest Lectures Delivered	6-7
6	Events Organized	7-8
7	Events Attended	8-9
8	Online Certifications	10
9	Training, Internships and Placements	10-13
10	Professional Society Activities	13-14
11	Ph.D Awarded	14-15
12	Research and Development Activities	15-21
13	Industrial Visits	22-24
14	Upcoming Events	25
15	Tech News	26-27
16	Articles by Faculty and Students	28-29
17	Creative Corner	30-31
18	To solve or not to?	32

## Head of the Department



It's my honour to welcome you to the July-Sept 2023 edition of our Electronics and Communication Engineering (ECE) department's newsletter. As we flip each page of our newsletter, we will find the articles, research highlights, and updates that reflect the passion and hardworking nature of our faculty members, our beloved students and our fellow researchers.

Looking at all these accomplishments, I am confident that our ECE department will continue to make significant progress and bring out the best projects, research papers and much more. Through our dedication to excellence and education, we will shape the future of Electronics and Communication Engineering.

I thank each one of you for your contribution to this newsletter.

Dr. S. Rajendra Prasad

*Self-education is, I firmly believe, the only kind of education there is.*

*—Isaac Asimov*

## Faculty Updates



Ms. Ch. Prathyusha



Ms.K. Swetha

- Ms. Ch. Prathyusha , Assistant Professor, was relieved from their duties on 25th August 2023.
- Ms.K. Swetha , Assistant Professor, was relieved from their duties on 19th September 2023.

## Whizz-Kids

- Following are the toppers from I B.Tech., I Semester (2022-23)



G. Harshitha 22071Ao4E1  
SGPA: 9.75



P. Sriya 22071Ao4J3  
SGPA: 9.75



G. Pranav Naga Sai 22071Ao4E0  
SGPA: 9.65



D. Nandini 22071Ao417 & K. Chaya Vaishnavi 22071Ao427  
SGPA: 9.6

*Real education must ultimately be limited to one who INSISTS on knowing, the rest is mere sheep-herding.*  
- Ezra Pound



G. Pranav Naga Sai 22071A04E0  
SGPA: 9.65



D. Nandini 22071A0417 & K. Chaya Vaishnavi 22071A0427  
SGPA: 9.6



K. Geetanjali 22071A0494  
SGPA: 9.6



M. Rishitha 22071A04A1  
SGPA: 9.6



P. Srinidhi 22071A0438  
SGPA: 9.5



M. Sai Pavan 22071A0498  
SGPA: 9.5



N. Venkata Shiva Bindu 22071A04A6  
SGPA: 9.5



P. Akshitha Reddy 22071A04A8  
SGPA: 9.5

*It is always easier to fight for one's principles than to live up to them.*

*-Alfred Adler*



K. Manoj 22071Ao4Pi  
SGPA: 9.5



N. Akshith Reddy  
22071Ao4Q3  
SGPA: 9.5



B. Lohitha 22071Ao4Mo  
SGPA: 9.45

## Awards & Recognitions

- **Dr. Y. Padma Sai**, Professor & Dean Student Progression received **IEEE Women In Engineering (WIE) Inspiring Member Award-2023** (She received Prize Money \$250 USD & Certificate) on 11th July 2023.



- **Dr. Ch. Anil Kumar**, Assistant Professor appointed as a **Reviewer** for **International Conference on Digital Applications, Transformation, and Economy (ICDATE) 2023**, Curtin University Malaysia from 14th to 16th July 2023.

*The cause of all human evils is the not being able to apply general principles to special cases.*

*-Epictetus*

- **Dr. V. Priyanka**, Assistant Professor appointed as a **Reviewer** of **Machine Learning Research (MLR)** ISSN Print: 2637-5672; ISSN Online: 2637-5680. <https://www.sciencepg.com/j/mlr>; from 27th July 2023 to 27th July 2026.



- **Dr. V. Priyanka**, Assistant Professor received **Recognition certificate** from **IEEE International Conference on Data Science and Network Security (ICDSNS)** in association with IEEE Bangalore Section held on 28th and 29th July 2023.
- **Ms. Ch. Rajakumari**, Assistant Professor appointed as **Reviewer** for **International Journal of Electrical and Computer Engineering Systems (IJECEs)** from July 2023 to till date.

- **Dr. S. Rajendra Prasad**, Professor & Head, ECE, acted as **External Examiner**, for the Viva-Voce examination for the award of Ph.D. degree of Ms. R. Rajalakshmi (Reg. No. EC18Doo8) in the Department of Electronics and Communication Engineering, **Dr. MGR Educational and Research Institute (Deemed to be University)**, Chennai, Tamil Nadu, on 14th August 2023.



Dr. S. Rajendra Prasad awarding Ph.D.

- **Dr. Y Padma Sai**, Professor & Dean Student Progression and **Dr. V. Priyanka**, Assistant Professor took on the role of **coordinator** for **IEEE WIE International Leadership Summit 2023 Track I**, titled "**Emerging Equity with Leadership and Sustainability**" organized by Raipur, Chhattisgarh from 25th to 26th August 2023.



Memento received by Dr. Priyanka for volunteering



- **Ms. N Neelima** acted as the **session coordinator** for **IEEE WIE International Leadership Summit 2023 track "women in Space"** organized by Raipur, Chhattisgarh from 25th to 26th August 2023.



- **Dr. V. Priyanka**, Assistant Professor appointed as a **Reviewer** for **IEEE Conference on Networks, Multimedia and Information Technology (NMITCON)**, Nitte Meenakshi Institute of Technology, Bengaluru on 1st & 2nd September 2023.



- **Dr. P. Kishore**, Associate Professor was appointed as an **Executive Committee Member for Circuits and Systems Society**, IEEE Hyderabad Section, 2020-21, 2021-22, and 2022-23.
- **Dr. Y. Padma Sai**, Professor & Dean Student Progression and **Mr. V. Naveen Kumar**, Assistant Professor received **appreciation from Elsevier** for their paper titled "Cough sound analysis and objective correlation with spirometry and clinical diagnosis" published open access between 2020–2022 **linked to the United Nations Sustainable Development Goals, helping to tackle some of the world's greatest challenges.**



- **Dr. Ch. Anil Kumar**, Assistant Professor received certificate of excellence, for outstanding performance in FREE OPENCV BOOTCAMP.



Felicitation of Dr. V. Priyanka by IETE Professional Society for her talk

- **Dr. V. Priyanka**, Assistant Professor was felicitated for the online comprehensive Knowledge Sharing Session (KSS) delivered on “**Design Thinking and Presencing for Better Future Engineers**” in an IETE Webinar organized by The Institution of Electronics and Telecommunication Engineers (IETE) on 17th September 2023.

## Guest Lectures Delivered

- **Mr. D. Ramesh Reddy**, Assistant Professor delivered a Lecture on “**IoT Integrated Agriculture Monitoring System using Machine Learning**” organized by National Academy of Agricultural Research Management (NAARM) on 6th July 2023.
- **Dr. R. Sravanth Kumar**, Assistant Professor acted as a Keynote Speaker for Session in the Bio-medical healthcare application track in the " International Conference on Computational Science & Intelligence" held on 5th August 2023.



Dr. R. Sravanth Kumar receiving memento for his lecture.



*Education is for improving the lives of others and for leaving your community and world better than you found it.*

*—Marian Wright Edelman*

- **Dr. Ranjan Kumar Senapati**, Professor & **Dr. A. Sai Kumar**, Assistant Professor delivered a session on **“Technical paper writing using LaTeX”** as a resource person in the Two days workshop on Technical paper writing using LaTeX organized by Department of ECE, VNR VJiet, Hyderabad on 24th & 26th August 2023.



Session on Technical paper writing using LaTeX by Dr. Ranjan



- **Dr. Y. Padma Sai**, Professor & Dean Student Progression delivered a talk on **“Role of Signal Processing”** in Ravindra College of Engineering for Women, Kurnool, Andhra Pradesh on 7th September 2023.

- **Dr. K. B. Archana**, Sr. Assistant Professor and **Dr. V Priyanka**, Assistant Professor delivered an online comprehensive Knowledge Sharing Session (KSS) on **“Design Thinking and Presencing for Better Future Engineers”** in an IETE Webinar organized by The Institution of Electronics and Telecommunication Engineers (IETE) on 17th September 2023.



- **Dr. Y. Padma Sai**, Professor & Dean Students Progression IEEE delivered a talk on, **“Importance of STEM, Sustainability and Social Impact”** in WIE congress 2023 organized by Vardhaman College of Engineering in association with IEEE Hyderabad Section WIE-2023 on 22nd September 2023

## Events Organized

- Hands-on workshop on **“Drone Simulation and Assembling”** was conducted in association with Pavaman Aviation, Hyderabad from 12th to 15th July 2023 for II B. Tech students.



Students attending workshop on Drone Simulation and Assembling



Guest lecture by Mr. R. Pavan Kumar

- Guest Lecture on **“Self-Reliance in Defense”** was delivered by **Mr. R. Pavan Kumar**, Scientist, DRDO, Hyderabad on 15th July 2023 for II B.Tech ECE Students.

- A Two-day Workshop on “**Technical Paper Writing Using Latex**” by **Dr. S. Ranjan Kumar**, Professor and **Dr. A. Sai Kumar**, Assistant Professor, Department of ECE, VNRVJIET was conducted on 24th and 26th August 2023.



Faculty attending workshop on Technical Paper Writing Using Latex

Then students now faculty celebrating Teachers day

- **Alumni** students who are now **faculty members** in the department celebrated “**Teacher's Day**” with heartfelt gestures on 5th September 2023.
- Interactive session on “**Research & Development activities in the Signal processing/VLSI domain and possible funding for project proposals**” by **Dr. L Parida**, Scientist G, RCI DRDO was organized on 27th September 2023 with the Special Interest Group (SIG) Faculty.



Interactive session by Dr. L.Parida

## Events Attended

- **Ms. A. Pravalika**, Assistant Professor attended **one-week workshop** organized by National Institute of Technology, Jamshedpur from 4th to 8th July 2023.
- **Dr. Y. Padma Sai**, Professor & Student Dean Progression attended **Webinar** on “**Meet the Candidates**” (Chair Elect 2023” by Dr. Prerna Gaur, Council Chair-Elect, Dr. Rajesh Ingle, Council Chair-Elect, Dr. Anil Roy) Council Chair-Elect organized by India Council on 9th July 2023.
- **Dr. S .Rajendra Prasad**, Professor & Head and **Dr.Y.Padma Sai**, Professor & Student Dean Progression attended session on “**Elevating to higher orbit in technology & centre**” India regional CoE internship program for deployment in industry by **Mr. V. Venkata Rama**.
- **Ch. Raja Kumari**, Assistant Professor attended Online One-Week FDP on “**Enhancing Faculty Expertise: Communication and Signal/Image Processing**” organized by Aditya College of Engineering & Technology, Surampalem , AP from 10th to 15th July 2023.
- **Ms. V. V. N. Malleswari**, Instructor, **Mr. K. Balaji**, Senior Skilled Assistant, **Ms. S .Madhavi**, JCP, **Ms. T. Sujata**, Senior skilled assistant attended Workshop on “**Functional English**” organized by Department of Humanities & Science, VNRVJIET from 11th to 14th July 2023.
- **Mr. Sk Shoukat Vali**, Assistant Professor & **Ms. Y. Srirama**, Assistant Professor attended Webinar on “**Recent Trends in Smart Antenna Systems & Microwave Component**” organized by XITADEL CAE Technologies Bengaluru on 13th July 2023.
- **Ms. M. Haritha** , Assistant Professor, **Dr. A. Sai Kumar**, Assistant Professor, and **Dr. T. Srinivas**, Assistant Professor attended a Workshop on “**Grant Writing**” by **Dr. T. Rajiv Kumar**, Retd. Secretary, SERB and **Dr. D. R. Prasad Raju**, Retd. Scientist-G, DST organized by VNRVJIET on 17th & 18th July 2023.

- **Dr. S. Rajendra Prasad**, Professor & Head & **Dr. P. Kishore**, Associate Professor, visited Ananth Technologies Ltd. and met **Mr. V. Sathish Dawan**, Senior Manager to discuss the technical issues and status of the consultancy project titled “**Implementation of GNSS receiver using Zynq SOC**” on 18th July 2023.
- **Ms. Ch. Rajakumari**, Assistant Professor visited Lsec ( a Wing of DLRL) at Shamshabad on 19th July 2023.
- **Dr. Ch. Anil Kumar**, Assistant Professor attended a webinar on “**Practical Integration of ChatGPT in Education: Insights and Strategies for Educators (KEEP-Knowledge and Education Exchange Platform)**” organized by Centre for Learning Enhancement and Research, The Chinese University of Hong Kong on 21st July 2023.
- **Ms. K. Swetha Reddy**, Assistant Professor and **Ms. S. Naga Leela**, Assistant Professor attended webinar on “**NANOSYSTEMS: LAB TO FAB**” organized by IEEE-IISc VLSI Chapter on 22nd July 2023.
- **Ms. S. NagaLeela**, Assistant Professor, **Ms. K. Sangeetha**, Assistant Professor, **Mr. P. Suresh Babu**, Assistant Professor, **Ms. M. Rama Devi**, Assistant Professor, **Mr. C. Kaushik**, Assistant Professor, **Mr. J. V. A. Bala Krishna**, Assistant Professor **Ms. B. Alekhya**, Assistant Professor, **Ms. A. Pravalika**, Assistant Professor, **Ms. A. Sireesha**, Assistant Professor, **Ms. Y. Sri Rama**, Assistant Professor, **Mr. T. Aditya Kumar**, Assistant Professor attended FDP on “**Cultivating Research Attitude and Faculty Transformation (CRAFT)**” organized by Department of Computer Science and Engineering, VNRVJIET from 24th to 29th July, 2023.
- **Ms. S. Nagaleela**, Assistant Professor and **Dr.A.Sai Kumar**, Assistant Professor, attended 5-day Virtual Faculty Workshop on “**VLSI to System design: Silicon-to-end application Approach,**” organized by the All India Council for Technical Education (AICTE), Arm Education and ST Microelectronics from 31st July 2023 to 4th August 2023.
- **Ms. M. Haritha**, Assistant Professor attended the workshop on “**Self-balancing Robot Design**” at IIT Bombay, Mumbai from 3rd to 5th August 2023.
- **Dr K B Archana**, Sr. Assistant Professor attended online workshop on “**Introduction to Design Thinking and its creative Tools**” organized by NPTEL + workshop on 29th & 30th July 2023.
- **Dr. Ch. Anil Kumar**, Assistant Professor and **Dr. T. Srinivas**, Assistant Professor attended lectures on “**Pedagogical process for identifying and dealing with Complex Engineering Problems and Tools and techniques for Research paper writing and where to publish**” organized by IEEE Signal Processing Society in association with IEEE Education Society , Hyderabad Chapter at NERTU, Osmania University on 12th August 2023.
- **Ms. A.Pravalika**, Assistant Professor attended the Synergistic training program on “**AIML using Matlab / Python for Engineering and Bio-Medical Applications**” from 16th to 22nd August 2023.
- **Dr. G. Shanthi**, Assistant Professor, Attended a Webinar on “**Quantum Technology Spin Qubit Device using QTCAD Software**” on 18th August 2023
- **Mr. T.Aditya Kumar**, Assistant Professor attended FDP on “**Faculty Induction Program**” organized by Department of Humanities & Science, VNRVJIET from 22nd to 24th August 2023.

*The child who desires education will be bettered by it; the child who dislikes it disgraced.*

— John Ruskin

# Online Certifications

## Faculty

- **Dr. T. Srinivas**, Assistant Professor & **Ms. N. Nelima**, Assistant Professor, received NPTEL fee reimbursement for academic year 2022- 2023, I-sem.



Dr. T. Srinivas receiving fee reimbursement



Ms. N. Nelima receiving fee reimbursement

## Students

- **K. Gautham Kumar** (2007IA436) and **K. Shoneeth** (2007IA0480) were awarded NPTEL fee reimbursement for being ranked among the top 2% during the January-April 2023 semester.
- **M. Shiva Krishna** (2007IA0491) has successfully completed the course on “**Introduction to Operating Systems**” and stood as **topper 5%** of NPTEL course during July-September 2023



- **T. Sanjay** (2007IA0455) has successfully completed the course on “**Programming Data Structures and Algorithms Using Python**” and stood as **topper 5%** of NPTEL course during July-September 2023

# Training, Internships and Placements

## Training

S.No.	Part culars of the event	Benef c ar es
1	Training Program on "Competitive Coding Skills" by Smart Interview team and Being Zero on 28th September 2023	III B.Tech. ECE students

*Education is learning what you didn't even know you didn't know.*

*—Daniel J. Boorstin*

## Internships

S.No.	Roll Number	Name of the Student	Year & Section	Name of the company providing Internship	Duration	Amount of Stipend
1.	20071A04C1	A.Satya Srujan	IV ECE C	Zentree Labs	11-07-2023 to 11-10-2023	NA
2.	20071A0499	P Sai Teja	IV ECE B	Synopsis	31-07-2023 to 30-07-2024	40000
3.	20071A04No	K Naga Vaishnavi	IV ECE D	Synopsis	31-07-2023 to 30-07-2024	40000
4.	20071A0443	P.Harshitha	IV ECE A	Synopsis	31-07-2023 to 30-07-2024	40000
5.	21075A0412	P Ludhiya	IV ECE B	Sri Shasha Prayathi Technologies Pvt.Ltd.	14-09-2023 to 14-09-2024	NA
6.	21075A0421	G. Yogesh kumar	IV ECE D	Sri Shasha Prayathi Technologies Pvt.Ltd.	14-09-2023 to 14-09-2024	NA
7.	21075A0415	K. Swetha	IV ECE C	Sri Shasha Prayathi Technologies Pvt.Ltd.	14-09-2023 to 14-09-2024	NA
8.	21075A0405	V. Sridhar	IV ECE A	Sri Shasha Prayathi Technologies Pvt.Ltd.	14-09-2023 to 14-09-2024	NA



Throughout my internship at DRDO-Assymetric technologies, I was continuously acquired knowledge about how Wirelessly power can be transmitted for long distance, how Antenna works and Types of drones usage for different applications. I must admit that the project guides were supportive and skilled enough to help us to learn new things and also motivate us to implement them. The Healthy and Integrity work environment allow us to communicate every single idea with the mentors. To apply theoretical knowledge to practical situations, DYSLAT DRDO is the best place that bridge the gap between theory and Practicality.

**-Y. Jayraj**

*Instruction ends in the schoolroom, but education ends only with life.*

*A child is given to the universe to be educated.*

*-Frederick William Robertson*



I became fully immersed in Spring Boot framework-related projects during my internship at JP Morgan firm, which helped me hone my Java skills and obtain real-time experience. I worked as a team on a number of tasks, such as utilising Spring Boot to create RESTful APIs and microservices. I created a user authentication service for a project, using Spring Security to guarantee strong access control. Another task that required close attention to detail and adherence to best practices was integrating third-party APIs into our application. Through these projects, I gained understanding of the complexities of Spring Boot development and refined my ability to architect scalable and maintainable solutions. I now have a strong foundation in the principles of the Spring Boot framework from this internship, which will enable me to confidently take on new software challenges

**- V. Swathi**

My time at JPMorgan for the internship was an eye-opener. Dive into finance? Check. Working with pros? Double-check. I got hands-on with projects, picking up tricks of the trade and fine-tuning my analytical abilities. From digging into market trends to dissecting investment strategies, my tasks were a crash course in real-world finance. Collaborating with various teams broadened my perspective—seeing how everything connects, way beyond what any textbook covers. Beyond the technical skills acquired, the internship fostered my adaptability and teamwork. JPMorgan's collaborative environment not only enhanced my professional growth but also instilled a profound appreciation for the innovation and strategic thinking essential in the ever-evolving financial landscape.

In a nutshell, JPMorgan didn't just give me an internship; it shaped me into a more versatile and forward-thinking professional, ready for the challenges of the financial world.



**-B. Sneetha**

It was an honor to collaborate with Assymmetric Technologies at the DRDO Young Scientist Laboratory, Dundigal. Throughout my internship tenure, I focused on Microwave Wireless Power Transfer, a technology with promising prospects. My team and I extensively researched the intricate antenna mechanisms essential for transmitting power wirelessly across distances of up to 500 meters. This experience provided me with invaluable insights into various electronic equipment and antenna systems, alongside the opportunity to collaborate with some of the most esteemed professionals in our nation. Moreover, I acquired proficiency in utilizing tools like ANSYS Electronics, COMSOL Multiphysics etc. The environment fostered a rich learning experience under the guidance of exceptional leaders, allowing me to explore innovative ideas first-hand.

**-M Durga Sai Phani Deepak**



I have done my internship at DRDO-Asymmetric Technologies for nearly three months. The internship is about working on feasibility of wireless power transmission for a longer distance. In my internship I have learnt about various types of power transmitters, antennas, rectifiers, and lot more which are the key parts in wireless power transmission. The work environment is so nice and peaceful. Project guides were very helpful to guide us and friendly to express our thoughts.

**-M. Bharath**



### Placements

- Following students are shortlisted for Oracle Corporation with an annual package of 19.75 LPA
  - 1.S. Raghu Teja (2007IA04QI)
  2. NNSL Ashritha (2007IA044I)



I am thrilled to share that I've landed a job at Oracle through my college placement at VNR VJIET. VNR VJIET has been an incredible journey, shaping me into the professional I am today. The faculty's guidance, the campus's modern facilities, and the emphasis on practical learning have truly prepared me for this opportunity. I am immensely grateful for my time at VNR VJIET, and I look forward to applying everything I've learned to excel in my new role at Oracle.

**-S. Raghu Teja**

## Professional Society Activities

- **“An Introductory session to CST Microwave Studio”** conducted in collaboration with Techfluent Solutions Private Limited in association with IEEE MTT-S on 6th July 2023.
- Team **NSS, IIC and IEEE** organized **eye camp and dental camp** on 29th July 2023.



Volunteers of the camp



Participants of the eye and dental camp



*Principles are the basis for developing a vision and value system for all.*

*-Stephen Covey*



- **All professional chapters and IIC** organized a “**NASA International SPACE APPS Challenge 2023**”, a 24-hour Hackathon at VNRVJIET from 31st July 2023 to 1st August 2023.



NASA International SPACE APPS Challenge 2023

- A Workshop on “**Easy and Lazy Technical Writing: How to build a Solid Logic**” by Akhiko K. Sugiyama, Dr. Eng., Yahoo! Research organized by **IEEE SPS Chapter Hyderabad Section** on 8th & 9th September 2023.



Workshop on “Easy and Lazy Technical Writing: How to build a Solid Logic” by Akihiko K. Sugiyama. Introductory session to CST Microwave Studio



Purulia Chhau Tribal Dance



Crescendo music club and IEEE society

- SPIC MACAY “**Purulia Chhau Tribal Dance**” event conducted by **Crescendo music club and IEEE society** of VNRVJIET on 3rd August 2023.

## PhD Awarded

- **Mr. Ch. Anil Kumar**, Assistant Professor, ECE, VNRVJIET successfully completed the PH.D viva-voce titled “**Design and Analysis of Emotion Recognition from Multiple Bio-Metrics**” at **Jawaharlal Nehru Technological University Hyderabad** under the supervision of **Dr. K. Anitha Sheela**, Professor, ECE, JNTUH on 09th June 2023.



Head of the Department, ECE, JNTUH congratulating Dr. Ch. Anil Kumar.

*Important principles may, and must, be inflexible.*

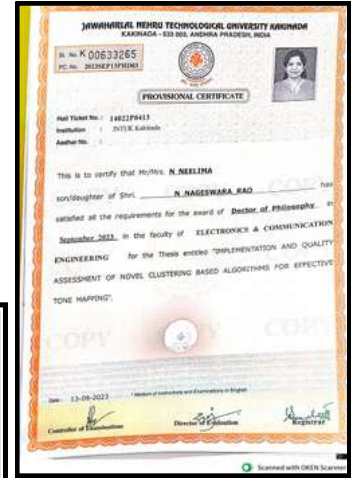
*-Abraham Lincoln*



Dr. Helan Satish receiving her Ph.D. degree

- **Ms. Helan Satish**, Assistant Professor successfully completed Ph.D. (**Full-Time**) Viva-Voce titled “**Electrophysiological Modelling of Cardiac Channelopathies and Ventricular Arrhythmias**” at the **Indian Institute of Technology Madras (IITM)** under the guidance of **Dr. M. Ramasubba Reddy**, Professor, Department of Applied Mechanics and Biomedical Engineering, IITM, Chennai, Tamilnadu on 13th July 2023 and awarded on 22nd July 2023.

- **Ms. N. Neelima**, Assistant Professor successfully completed the Ph.D. viva-voce titled “**Implementation and Quality Assessment of novel clustering based algorithms for effective tone mapping**” at Jawaharlal Nehru Technological University , Kakinada under the supervision of **Dr. Y. Ravikumar**, SC-G, Retd.,DLRL on 17th August 2023.



## Research and Development Activities

### Projects Applied/Sanctioned:

- **Dr. V. Priyanka**, Assistant Professor and **Ms. Ch. Pratyusha**, Assistant Professor, applied a project titled, “**Low-Cost smart cradle cum crib for babies wellness**” to MSME IDEA HACKATHON 3.0 (Women) under Idea Sector: Services, Education, Hospitality, Media, Publishing, Entertainment, Design, Wellness, Logistics, Sports and any related sub-sector for an amount of Rs. 15 Lakhs on 11th July 2023, Reference No.: INC23CTSo24452.
- **Dr. V. Priyanka**, Assistant Professor and **M. Veda** (20071A4H7), IV Year Student applied a project titled, “**Multi-functional Smart wheel chair cum bed**” to MSME IDEA HACKATHON 3.0 (Women) under Idea Sector: Healthcare & Life sciences, Medical Devices, Pharmaceuticals, Biotech, AYUSH and any related sub- sector for an amount of Rs. 15 Lakhs on 11th July 2023, Reference No.: INC23CTSo23537.
- **Dr. Y. Padma Sai**, Professor & Dean Student Progression, and **Ms. K. Hima Sri** applied a project proposal titled “**Digital Twin of ICU Patient Health Monitoring System**” to MSME IDEA HACKATHON 3.0 (Women) for an amount of Rs. 15 Lakhs on 11th July 2023, Reference No.: INC23CTSo23588.
- **Dr. Y. Padma Sai**, Professor & Dean Student Progression & **Dr. P. Kishore**, Associate Professor submitted a seasonal school proposal titled “**Analog and Mixed Signal Design Using Synopsys Tools**” to IEEE Circuits and Systems Society (CASS) under round two call for seasonal schools for an amount of \$5000 on 14th July 2023.

- **Dr. Y. Padma Sai**, Professor & Dean Student and **Mr. D. Ramesh Reddy**, Assistant Professor applied a project proposal titled "**National Science day Celebrations – A Open House on S&T Innovations for Rural Community**" to National Childrens Science Congress and Initiatives for Child Scientists Research and Innovations for an amount of Rs. 14.65 Lakhs on 14th July 2023, Temporary Registration No. : TPN / 95925.
- **Mr. Ravikumar R**, Assistant Professor and **GK. Keerthana** (20071A0419) applied a project titled "**Water quality enhancer for smaller water bodies**" to MSME Idea Hackathon 3.0 (Women) for an amount of Rs. 15 Lakhs on 27th July 2023
- **Ms. Haritha M**, Assistant Professor and **Ms. Sireesha A**, Assistant Professor applied a project titled "**Multi-Robot search and rescue system for effective Earth-based disaster response**" to MSME Idea Hackathon 3.0 (Women) for an amount of Rs. 15 Lakhs on 09th August 2023, Reference No. : INC23CTSo32683
- **Dr. L. Padma Sree**, Professor applied a project titled "**Development of Deep Learning Based System for Identification of Site-Specific Biotic Disorders using Aerial Data Acquisition in Agricultural Field**" to MSME Idea Hackathon 3.0 (Women) for an amount of Rs. 15 Lakhs on 31st August 2023.
- **Dr. N. Dhanalakshmi**, Associate Professor applied a project titled "**Modelling an AI-Based Expert system for Precision Farming through Automated Weed Analysis using Drone Imagery**" to MSME Idea Hackathon 3.0 (Women) for an amount of Rs. 15 Lakhs on 31st August 2023.
- **Dr. V. Krishnasree**, Associate Professor and **Mr. D Ramesh Reddy**, Assistant Professor applied a project titled "**Machine Learning and IoT for the Air Quality Monitoring**" to MSME Idea Hackathon 3.0 (Women) for an amount of Rs. 15 Lakhs on 31st August 2023.
- **Dr. T. Srinivas**, Assistant Professor, **Dr. G. Vijay Kumar**, Assistant Professor and **Dr. Pradeep Kumar**, Assistant Professor applied a project titled "**A Real-Time Estimation of Tomato Shelf life using Deep Learning for Tomato Supply Chain Management**" to Ministry of Consumer Affairs, Food & Public Distribution, Government of India for an amount of Rs. 5.75 Lakhs on 11th September 2023, Submission ID: 832.
- **Mr. D. Ramesh Reddy**, Assistant Professor, **Dr. K. Prakash**, **Dr.Ch. Ramalingaswamy** and **Dr. E. Damoder Reddy** applied a project titled "**Automated Seed Germination Detection System using Hybrid U-Net and CNN Model with GAN-based Data Augmentation**" to Translational Research Proposals for IDEAS-TIH, Indian Statistical Institute – Cohort 2 for an amount of Rs. 25.09 on 15th September 2023.
- **Mr. D. Ramesh Reddy**, Assistant Professor and **Dr. M. Madhu Bala** applied for a project titled "**Development of a Smart Vision Eyewear Assistive Device for identification of Personal Products luggage bag in Public Places Airports for Visually**" to DST-TIDE TPN / 98556 for an amount of Rs. 44.28 Lakhs on 29th September 2023.
- **Dr. L. Padma Sree**, Professor, **Dr. N. Dhanalakshmi**, Associate Professor and **Mrs. B. Mathura Bai**, Associate Professor, IT Department applied for a project titled "**Development of a Real Time Domestic Hearing-Substitution Sensory System for Alerting Hearing Impaired People through Vibrotactile and Visual Strategies**" to DST-TIDE TPN / 100660 for an amount of Rs. 37.88 on 30th September 2023.

### Patent Granted

- **Dr. Y. Chalapathi Rao**, Associate Professor, **Dr. L. V. Rajani Kumari**, Assistant Professor, **Dr. V. Sagar Reddy**, Assistant Professor, **Dr. Ch. Anil Kumar**, Assistant Professor Design IPR Application Number-6300971 titled “Solar Smart Irrigation System,” was granted to the UK Design on 16th August 2023.

### Patent Applied

- **Dr. A. Sai Kumar**, Assistant Professor and **Dr. N. Neelima**, Assistant Professor awaiting request for examination the IPR Ref. no.202341052678 & dated on 29th July 2023 titled “Efficient prime bit Vedic multiplier for double precision floating point numbers”.
- **Dr. K. B. Archana**, Sr. Assistant Professor awaiting request for examination the IPR Ref. no.202341052678 & dated on 04th August 2023 titled “Knowledge-Based Intelligent system for Design Thinking”.

## Journals/ Conferences/ Book Chapters

Number of Conferences: 25

Number of Journals: 6

S.No.	Name of the Faculty	Title of the paper	Conference/Journal
1	Ms. Haritha M Assistant Professor	Predictive control of networked control system with event-triggering in two channels	<b>European Journal of Control</b> , Volume 72, July 2023, 100810
2	Ms. M. Ramadevi Assistant Professor	Performance Analysis of Downlink Cooperative NOMA System	<b>International Conference on VLSI, Communication and Signal processing</b> from 14th to 16th October 2022 organized by MNNIT Allahabad, Prayagraj. Published on 02nd July 2023.
3	Dr. T. Srinivas Assistant Professor	Deep Learning-Based Leaf Region Segmentation Using High-Resolution Super HAD CCD and ISOCELL GW1 Sensors	<b>Journal of Sensors</b> , Volume 2023   Article ID 1085735. Published on 4th July 2023.
4	Dr. G. Shanthi Assistant Professor	Tunable design of OTA2-C2 Low Pass Filter using CMOS Technology: An Innovative Approach	4th International Conference for Emerging Technology ( <b>INCET-2023</b> ) from 26th to 28th May 2023 organized by Department of ECE, Jain College of Engineering (JCE), Belagavi. Technically Cosponsored by IEEE Bangalore section. Published on 10th July 2023.

*Principles are like seeds; they are little things which do much good, if the mind that receives them has the right attitudes.*

*-Seneca the Younger*

5	Ms. K. Aruna Kumari Assistant Professor	A Comparative Analysis for Leukocyte Classification Based on Various Deep Learning Models Using Transfer Learning	4th International Conference for Emerging Technology ( <b>INCET-2023</b> ) from 26th to 28th May 2023 organized by Department of ECE, Jain College of Engineering (JCE), Belagavi. Technically Cosponsored by IEEE Bangalore section. Published on 10th July 2023.
6	Mr. V. Naveen Kumar Assistant Professor	Multi-Classification of Respiratory Diseases using Deep Learning	1st International Conference on Sustainable Computing and Smart Systems ( <b>ICSCSS 2023</b> ) from 14th to 16th June 2023 organized by Hindusthan College of Engineering and Technology (HiCET) Coimbatore. Published on 07th July 2023.
7	Mr. V. Naveen Kumar Assistant Professor	Development of an SVM- based Depression Detection Model using MFCC Feature Extraction	1st International Conference on Sustainable Computing and Smart Systems ( <b>ICSCSS 2023</b> ) from 14th to 16th June 2023 organized by Hindusthan College of Engineering and Technology (HiCET) Coimbatore. Published on 07th July 2023.
8	Dr. Y. Chalapathi Rao Associate Professor	Panoramic 3D LiDAR-based Object Detection	1st International Conference on Sustainable Computing and Smart Systems ( <b>ICSCSS 2023</b> ) from 14th to 16th June 2023 organized by Hindusthan College of Engineering and Technology (HiCET) Coimbatore. Published on 07th July 2023.
9	Dr. J. L.V Ramana Kumari Assistant Professor	Design of Dynamic comparator using CMOS and FINFET Technologies	14th International Conference on Computing, Communication and Networking Technologies ( <b>ICCCNT 2023</b> ) 06th to 08th July 2023 at Indian Institute of Technology Delhi. Published on 23rd November 2023.
10	Dr. J. L.V Ramana Kumari Assistant Professor	Implementation of Square Root Function Using Vedic Mathematics	14th International Conference on Computing, Communication and Networking Technologies ( <b>ICCCNT 2023</b> ) 06th to 08th July 2023 at Indian Institute of Technology Delhi. Published on 23rd November 2023.
11	Dr. J. L.V Ramana Kumari Assistant Professor	Design and Verification of Ethernet Protocol	14th International Conference on Computing, Communication and Networking Technologies ( <b>ICCCNT 2023</b> ) 06th to 08th July 2023 at Indian Institute of Technology Delhi. Published on 23rd November 2023.

*Always vote for principle, though you may vote alone, and you may cherish the sweetest reflection that your vote is never lost.*

*-John Quincy Adams*

12	Dr. Santosh Kumar Choudhary Assistant Professor	A Graph Neural Network Approach To Combatting Fake News	1st International Conference on Sustainable Computing and Smart Systems ( <b>ICSCSS 2023</b> ) from 14th to 16th June 2023 organized by Hindusthan College of Engineering and Technology (HiCET) Coimbatore. Published on 07th July 2023.
13	Dr. P. Kishore Associate Professor	Implementation of Table-Based Cyclic Redundancy Check (CRC-32) for Gigabit Ethernet Applications	4th International Conference for Emerging Technology ( <b>INCET-2023</b> ) from 26th to 28th May 2023 organized by Department of ECE, Jain College of Engineering (JCE), Belagavi. Technically Cosponsored by IEEE Bangalore section. Published on 10th July 2023.
14	Dr. P. Kishore Associate Professor	Implementation of Digital Up Converter and Down Converter using System Generator	4th International Conference for Emerging Technology ( <b>INCET-2023</b> ) from 26th to 28th May 2023 organized by Department of ECE, Jain College of Engineering (JCE), Belagavi. Technically Cosponsored by IEEE Bangalore section. Published on 10th July 2023.
15	Dr. A. Sai Kumar Assistant Professor	Device Analysis of Vertically Stacked GAA Nanosheet FET at Advanced Technology Node	3rd International Conference (Virtual) on Advances in Computing, Communication, Embedded and Secure Systems ( <b>ACCESS 2023</b> ) from 18th to 20th May 2023 organized by AdiShankara Institute of Engineering and Technology (ASIET), Kalady, Kerala. Published on 07th August 2023.
16	Dr. A. Sai Kumar Assistant Professor	Design and Implementation of 1KB SRAM array in 45 nm Technology for Low- Power Applications	3rd International Conference (Virtual) on Advances in Computing, Communication, Embedded and Secure Systems ( <b>ACCESS 2023</b> ) from 18th to 20th May 2023 organized by AdiShankara Institute of Engineering and Technology (ASIET), Kalady, Kerala. Published on 07th August 2023.
17	Dr. A. Sai Kumar Assistant Professor	Nanosheet Field Effect Transistor Device and Circuit Aspects for Future Technology Nodes	<b>ECS Journal of Solid State Science and Technology</b> , Volume 12, Number 8. Published on 21st August 2023.
18	Dr. G. Shanthi Assistant Professor	An Efficient and High Speed FIR Filter using BEC with MUX Technique	3rd International Conference (Virtual) on Advances in Computing, Communication, Embedded and Secure Systems ( <b>ACCESS 2023</b> ) from 18th to 20th May 2023 organized by AdiShankara Institute of Engineering and Technology (ASIET), Kalady, Kerala. Published on 07th August 2023.

*The primal principle of democracy is the worth and dignity of the individual.*

*-Edward Bellamy*

19	Dr. S. Rajendra Prasad Professor & Head	An Efficient and Low Power 45nm CMOS Based R-2R DAC	4th International Conference for Emerging Technology ( <b>INCET-2023</b> ) from 26th to 28th May 2023 organized by Department of ECE, Jain College of Engineering (JCE), Belagavi. Technically Cosponsored by IEEE Bangalore section. Published on 10th July 2023.
20	Ms. K. Sangeetha Assistant Professor	Computation Resource Allocation Using NOMA Technique	4th International Conference for Emerging Technology ( <b>INCET-2023</b> ) from 26th to 28th May 2023 organized by Department of ECE, Jain College of Engineering (JCE), Belagavi. Technically Cosponsored by IEEE Bangalore section. Published on 10th July 2023.
21	Ms. N. Neelima Assistant Professor	Implementation of Efficient Digit Recurrence Class of Division Algorithms	3rd International Conference (Virtual) on Advances in Computing, Communication, Embedded and Secure Systems ( <b>ACCESS 2023</b> ) from 18th to 20th May 2023 organized by AdiShankara Institute of Engineering and Technology (ASIET), Kalady, Kerala. Published on 07th August 2023.
22	Mr. A Ramesh Kumar Assistant Professor	Design and Implementation of Optimized FIR Filter using CSA and Booth Multiplier for High Speed Signal Processing	4th International Conference for Emerging Technology ( <b>INCET-2023</b> ) from 26th to 28th May 2023 organized by Department of ECE, Jain College of Engineering (JCE), Belagavi. Technically Cosponsored by IEEE Bangalore section. Published on 10th July 2023.
23	Dr. Pradeep Kumar Assistant Professor	Ultrasound based breast cancer recognition using Mask RCNN	8th International Conference on Computing in Engineering and Technology ( <b>ICCET 2023</b> ) from 14th to 15th July 2023 organized by Department of ECE, NIT Patna. Published on 31st August 2023.
24	Dr. G. Vijaya Kumar Assistant Professor	EEG Based Decision Selection System Using Deep Learning	4th International Conference for Emerging Technology ( <b>INCET-2023</b> ) from 26th to 28th May 2023 organized by Department of ECE, Jain College of Engineering (JCE), Belagavi. Technically Cosponsored by IEEE Bangalore section. Published on 10th July 2023.
25	Dr. V. Priyanka Assistant Professor	Implementation of AES Algorithm	7th International Conference on Information and Communication Technology for Intelligent Systems ( <b>ICTIS - 2023</b> ) from April 27-28, 2023 organized and managed by Global Knowledge Research Foundation and GR Scholastic LLP in collaboration with Knowledge Chamber of Commerce and Industry, Ahmedabad. Published on 09th September 2023.

*The primal principle of democracy is the worth and dignity of the  
individual.*

*-Edward Bellamy*

26	Dr. Ch. Anil Kumar Assistant Professor	Building a Light Weight Intelligible Text-to-Speech Voice Model for Indian Accent Telugu	2nd International Conference on Edge Computing and Applications ( <b>ICECAA</b> ) from 19th to 21st July 2023 organized by Gnanamani College of Technology, Namakkal, Tamilnadu, India. Published on 19th July 2023.
27	Mr. Ch. Ganesh Assistant Professor	Performance and Stability Analysis of Built-In Self-Read and Write Assist IoT SRAM Cell	<b>Active And Passive Electronic Components</b> , Volume 2023 , Article ID 3371599
28	Dr. G. Vijaya Kumar Assistant Professor	Enhancing Safety and Security: Face Tracking and Detection in Dehazed Video Frames Using KLT and Viola-Jones Algorithms	<b>International Journal of Safety and Security Engineering</b> , Vol. 13, No. 4, August 2023, pp. 693-700
29	Dr. P. Kishore Associate Professor	Low Power Implementation of LUT based Cyclic Redundancy Check in Quantum dot Cellular Automata (QCA)	2nd World Conference on Communication & Computing ( <b>WCONF</b> ) from 14th to 16th July 2023 organized by Kalinga University, Raipur. Published on 04th September 2023.
30	Dr. V. Sagar Assistant Professor	ASIC Design Implementation of Staircase Encoder for Forward Error Correction	2nd World Conference on Communication & Computing ( <b>WCONF</b> ) from 14th to 16th July 2023 organized by Kalinga University, Raipur. Published on 04th September 2023.
31	Dr. L.V.Rajani Kumari Assistant Professor	Automatic Traffic E Challan Generation using Deep learning	<b>Material Science and Technology</b> Vol.22, No.09, 1-9

*We may be personally defeated, but our principles never!*

*-William Lloyd Garrison*





## INDUSTRIAL VISITS

29th September  
2023

### Anant Technologies

On 19th september 2023, the ECE department organized an industrial visit to Anant Technologies Limited, Madhapur, Hyderabad, providing students with practical insights into Electronics and Communications Engineering.

#### Insights:

The visit aimed to:

- Gain exposure to practical applications of engineering concepts.
- Understand real-world processes and technologies in the industry.
- Interact with professionals to understand their roles and responsibilities.
- Observe manufacturing and testing facilities.
- Students witnessed the entire production process, including assembly, quality control, and testing.
- They also learned Surface Mounting Technology, testing procedures under extreme conditions, and the industry's commitment to quality and innovation.
- Students learned how circuit boards are oriented and components placed using soldering liquid, enhancing their understanding of practical electronics manufacturing.
- They observed equipment testing at -40 degrees and under high pressure and acceleration, gaining insights into the rigorous quality standards upheld by the industry.



# INDUSTRIAL VISIT GALLERY

**Visit to Anant Technologies.**



**Visit to Anant Technologies**



**Visit to Anant Technologies.**

*It is easier to produce ten volumes of philosophical writings than to put one principle into practice.*

*-Leo Tolstoy*

# INDUSTRIAL VISIT GALLERY

**Visit to Anant Technologies.**



**Visit to Anant Technologies .**



**Visit to Anant Technologies.**

*It is easier to produce ten volumes of philosophical writings than to put one principle into practice.*

*-Leo Tolstoy*

## Upcoming Events

- 2023 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2023) 01st to 05th October 2023, USA.
- IEEE International Conference on Artificial Intelligence & Green Energy (ICAIGE 2023), 12th to 14th October 2023.
- 49th Annual Conference of the IEEE Industrial Electronics Society (IECON 2023), 16 to 19th October 2023, Singapore.
- The 23rd International Conference on Control Automation and Systems (ICCAS 2023), 17th to 20th October 2023, Korea.
- 16th International Conference on Security of Information and Networks (SIN-2023), 20th & 21st November 2023, Manipal University Jaipur, Rajasthan.
- Seventh International Conference on Image Information Processing (ICIIP-2023), 22nd to 24th November 2023, Jaypee University of Information Technology (JUIT), Himachal Pradesh.
- 2023 International Conference on Advances in Computation, Communication and Information Technology (ICAICCIT), 23rd & 24th November 2023 at MRIIRS, Faridabad, HR.
- 9th IEEE India International Conference on Power Electronics (IICPE-2023), 28th & 29th November 2023, Deenbandhu Chhotu Ram University Of Science & Technology, Haryana.
- 10th "IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON-2023)", 1st to 3rd December 2023, Amity University Uttar Pradesh.
- 26th INTERNATIONAL CONFERENCE ON ORIENTAL-COCOSDA (International Committee for the Coordination and Standardization of Speech Databases and Assessment Techniques) OCOCOSDA-2023, 04th to 06th December 2023, Indira Gandhi Delhi Technical University for Women (IGDTUW), Delhi.
- 2023 2nd IEEE Industrial Electronics Society Annual On-Line Conference (ONCON 2023), 8th to 10th December 2023.
- International Conference on Smart Technologies for Power, Energy and Control, 10th to 13th December 2023, Bhubaneswar.
- 11th National Power Electronics Conference 2023 (NPEC 2023), 14th to 16th December 2023 Guwahati.
- 7th IEEE Conference on Energy Internet and Energy System Integration (EI2 2023), 15th to 18th December 2023, China.
- 2023 IEEE International Conference on Power Electronics, Smart Grid and Renewable Energy (PESGRE 2023), 18th to 21st December 2023, Kerala.
- 24th International Middle East Power Systems Conference (MEPCON 2023), 19th to 21st December 2023, Egypt.
- First International Conference on Computational Intelligence, Networks and Security (ICCINS 2023), 22nd & 23rd December 2023, Lakireddy Bali Reddy College of Engineering (Autonomous), Andhra Pradesh.
- 2nd International Conference on Intelligent Data Communication Technologies and Internet of Things, 04th to 06th January 2024, REVA University, Bangalore.
- International Conference on Intelligent and Innovative Technologies in Computing, Electrical and Electronics, 24th & 25th January 2024, BNMIT, Bangalore.

## Tech News

- **India launches Bharat 6G Alliance:** India has taken a significant stride forward in the field of telecommunications, with the acquisition of over 200 patents for 6G technology. The announcement was made by the Communications and IT Minister, Ashwini Vaishnaw, during the launch of the Bharat 6G Alliance in New Delhi. The alliance, consisting of industry, academia, and the central government, aims to spearhead all 6G-related initiatives in a systematic and methodical manner.
- **Chandrayaan-3 Launched:** India's lunar mission Chandrayaan-3 is going to be launched on 14th July 2023 from Satish Dhawan Space Centre in Sriharikota announced by the Indian Space Research Organisation (ISRO).
- **Elena Introduces India's First NavIC:** In a significant stride towards achieving self-reliance in navigation applications and services, Elena Geo Systems, a Bengaluru-based firm, has unveiled the country's first hand-held navigation device based on the Indian Regional Navigation Satellite System (NavIC).
- **SpaceX gets licenses in Mongolia to offer high-speed internet:** SpaceX, the aerospace company founded by Elon Musk, has achieved two significant milestones in its quest to expand global internet connectivity through its Starlink satellite communications service. The Mongolian government has granted SpaceX licenses to operate as an internet service provider.
- **ESA launches 'Euclid Space Telescope' to review solar system bodies:** The European Space Agency (ESA) has recently launched the Euclid Space Telescope, a specially designed instrument aimed at revolutionizing our understanding of the universe. This state-of-the-art telescope will enable scientists to create a detailed three-dimensional map of billions of galaxies spread across a vast area of 10 billion light-years.
- **Chandrayaan 3 Lifts Off for its Journey to the Moon:** India launched its ambitious Chandrayaan-3 mission to the Moon. The spacecraft launched aboard India's heaviest rocket, Launch vehicle Mark-III a.k.a LVM3 on a journey to the Moon. The spacecraft will complete the 3,84,000 kilometers-long journey in nearly 45 days to attempt a soft-landing on the Moon by end of August.
- **Gaganyaan Human spaceflight mission:** ISRO successfully tested service module propulsion system ISRO successfully tested Gaganyaan Human Spaceflight Mission on 19th July at ISRO Propulsion Complex (IPRC) at Mahendragiri in Tamil Nadu.
- **HCLTech joins XR Startup Programme with MeitY, Meta:** HCL Tech, a multinational IT company, has joined the XR Startup Program, a collaborative effort between Meta and the MeitY Startup Hub, to bolster and accelerate extended reality (XR) technology startups in India.
- **ISRO launches PSLV-C56 carrying Singapore's DS-SAR and six other satellites:** ISRO to launch PSLV-C56 with six co-passenger satellite on 30th July 2023 from the first launch pad of Satish Dhawan Space Centre, Sriharikota.
- **India AI and Meta to foster advancements in AI & Emerging Technologies:** India AI and Meta have forged a collaborative partnership with the shared objective of propelling the progress of AI & Emerging Technologies research and development. The partnership's primary aim is to achieve groundbreaking advancements in AI technology and its practical applications.

*All you have to do is DECIDE what you want. BELIEVE you DESERVE IT, and*

*PRACTICE the success PRINCIPLES.*

*-Jack Canfield*

## Tech News

- The Chandrayaan-3 spacecraft, which marks India's third lunar exploration mission, has accomplished a noteworthy achievement by entering the moon's sphere of influence. This successful entry was made possible through a TransLunar Injection (TLI) executed by the Indian Space Research Organisation (ISRO). The upcoming crucial step is the Lunar Orbit Insertion (LOI) scheduled for August 5, during which the spacecraft's liquid engine will be activated once more to position it into a lunar orbit.
- Astronomers have made a stunning discovery of "Einstein Cross," where light from a distant galaxy is split and magnified by a foreground elliptical ground. This event was first predicted by Albert Einstein in 1915 as a consequence of his theory of general relativity.
- In a strategic partnership, NewSpace India Limited (NSIL) teams up with Tata Play to introduce GSAT-24. The objective of this partnership is to augment satellite broadcasting capabilities and provide high-quality entertainment to every part of the nation. This partnership signifies a significant advancement in India's telecommunications sector, propelled by state-of-the-art indigenous technology.
- ISRO is launching its first solar mission, Aditya-L1, to study the Sun. The mission will be placed in a halo orbit around the Lagrange point 1 (L1), which is about 1.5 million kilometers from Earth. From this vantage point, Aditya-L1 will be able to study the Sun's atmosphere, magnetic fields, and space weather impacts.
- Chennai-based Agnikul Cosmos has commenced the integration process of its groundbreaking launch vehicle, Agnibaan SOrTeD (Sub-Orbital Technological Demonstrator), with its private launchpad situated at the Satish Dhawan Space Centre in Sriharikota.
- ISRO has achieved a significant milestone by successfully testing its innovative device named 'Nabhmitra'. This device, developed at ISRO's Space Applications Centre in Ahmedabad, aims to enhance the safety of fishermen during their sea expeditions. The successful testing took place at Neendakara, where the device was installed on a fishing vessel, and its capabilities were assessed in the presence of both scientists and officials from the Fisheries department.
- ISRO revealed that Chandrayaan-3's Pragyan rover module has successfully confirmed the presence of sulphur (S) on the surface of the Moon.
- In a remarkable feat of innovation and technological prowess, Hyderabad-based private sector firm Grene Robotics has introduced Indrajaal, world's only autonomous wide area, counter-unmanned aircraft system (C-UAS).
- ISRO has faced a setback in its Chandrayaan-3 mission as they strive to re-establish communication with the Vikram lander and Pragyan rover on the lunar surface. Despite encountering difficulties, ISRO remains optimistic about the possibility of waking up the lander and rover during the lunar day, which spans 14 Earth days.
- NASA's Perseverance Mars rover has accomplished an impressive feat by traversing a massive boulder field at a record speed, taking only a third of the time it would have taken its predecessor, Curiosity. The rover's journey through the challenging terrain of Snowdrift Peak in the Jezero Crater is a testament to its advanced autonomous navigation capabilities and highlights its commitment to maximizing scientific exploration time.

*Discipline is choosing between what you want now and what you want most.*

*—Abraham Lincoln*

## Articles

### Barbie: Behind The Scenes

Everyone's been telling you about how Nolan did a great job with Oppenheimer or how gorgeous Margot Robbie was as Barbie, right? And you are tired of listening these words, right?

That's why I'm here! I'm here to tell you about the funny things that happened before and after my stay in the theatre.

It was 21 July, 2023. And we had two tickets in our hands; one ticket for 8 o'clock Oppenheimer and the other was 3 o'clock Barbie. We were supposed to bunk college for the movie day but guess what? The rains blessed us with a holiday!

By 11 o'clock or so, we were done with Oppenheimer. Throughout the movie, we were giggling and beating each other about Heisenberg's Uncertainty Principle and Einstein's Theory of Relativity whenever those two came onto the screen. For the first time in our lives, we felt proud that we know that stuff.

Then the wait time for Barbie started. We decided to sit on the benches, facing the entrance to see how everyone dressed up for the Barbie movie.

Few minutes passed by and people in pink started entering the mall. The power the movie held over the people was insane! Even the guys were willingly wearing pink. Love you, Barbie!

Suddenly, three guys entered the mall and my god! Behold the Holy Kens! All three of them were dressed in suits and shorts, just like the Ken doll! It made us go mad! We were literally pointing at them and were complimenting how beautiful they were. And they spotted us! How could they not when we were so loud? We were so embarrassed.

Then our other friend joined us and we went straight to the restroom. Guess what we did there? We put glitter all over our eyes and drew hearts on our cheeks!

After that came the infinite selfie clicks. Like Keira from Princess and Popstar said, 'Here's a camera, there's a camera!'

We went to the arcade, mystery rooms and mirror maze to kill some time. In the mirror maze, we did the 'Hi, Barbie!' reel. It turned out so cute!

3 o'clock finally decided to grace us with it's presence and we teleported to the theatre. But what did we find there? The picture was zoomed in! My friends who didn't even dare to raise their hand in class rushed out of the theatre to the manager and told him, 'Fix the projector, mad man!' They were much more polite actually but you get the idea. They fixed the projector and replayed the movie from the starting! Yeah!

During interval when the lights were turned on, the only colour we could see was pink!

Old McDonald, had a farm, e-i-e-i-o,  
And on his farm he had some pink, e-i-e-i-o,  
A pink, pink here and a pink, pink there,  
Here a pink, there a pink, everywhere pink, pink!

When we came out to buy some popcorn, we saw that the floor was filled with all pretty girls and guys dressed in pink. We felt so happy to be a part of that moment!

After the movie was done, we ran into people we knew and weirdly, the number kept increasing!  
In a few seconds, we went from 5 to 15!

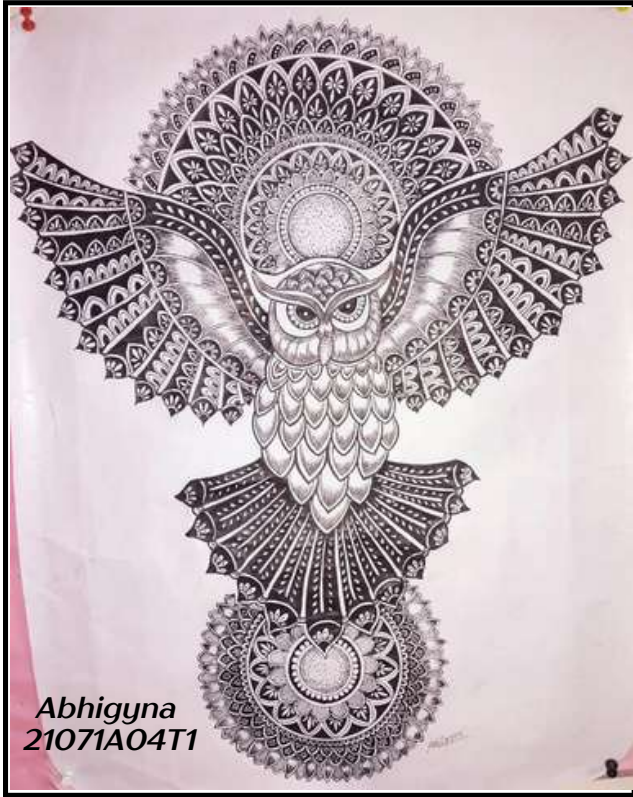
Then a guy came to us and asked if he could take pictures with us pink people. We went around asking other girls if they would like to join us. After recruiting a sufficient number, we all posed for the camera.

Finally, it was time for us to leave but we didn't want to. That day, the mall felt like home. Still, we had to leave. Since this day would never come again, we decided to be bold. On our way to the entrance, we started greeting the pink girls 'Hi, Barbie!' and they greeted us back with the same enthusiasm.

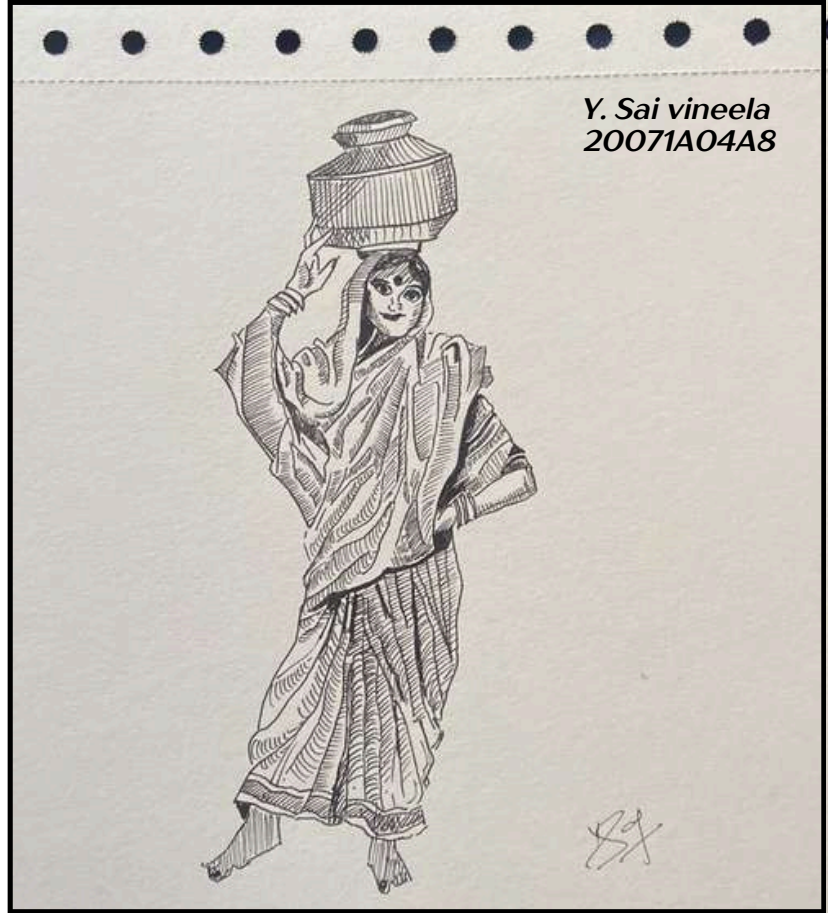
Then the main gate came and we hugged and we waved each other 'Bye, Barbie.'

~ Naga Sree Lekha  
ECE-A  
21071A0435





Abhigyna  
21071A04T1



Y. Sai vineela  
20071A04A8

## Creative Corner



Sahithy  
21071A04A2



Aishwarya  
20071A0402  
ECE A

*The one thing that advances a society is not technology or so-called development; it's love - that one principle.*

*-Tom Shadyac*

## నాన్నకు ప్రేమతో :

మనోధైర్యం అనే ఆయుధాన్ని  
చేతికి ఇచ్చి నడిపించి  
కష్టాన్ని ఎదుర్కొనే శక్తిని అందించి  
కంటి చూపుతోనే క్రమశిక్షణని నేర్పించి  
పట్టుకున్న ప్రతీ కొమ్మా విరిగినా సరే  
అలుపెరగని పోరాటంతో  
మమ్మల్ని అంబరానికెక్కించిన  
నాన్నా...  
నీ ప్రేమ విలువ కట్టలేనిది  
అజరామరమైనది...

--- బెందాళం అలేఖ్య  
ఫేకల్టీ

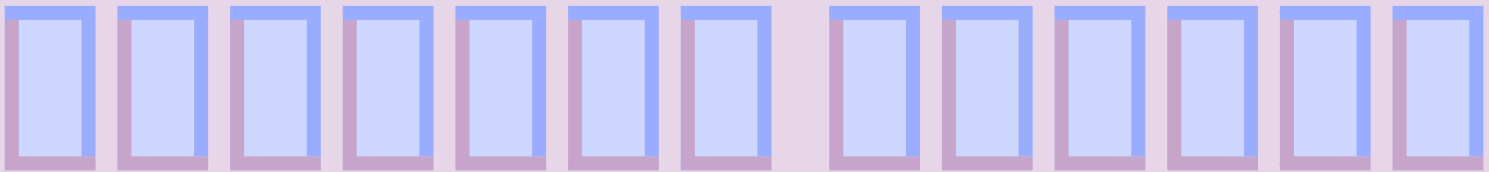
*We are accountable for our actions as we exercise our moral agency. If we understand  
this principle and make righteous choices, our lives will be blessed.*

*-L. Lionel Kendrick*

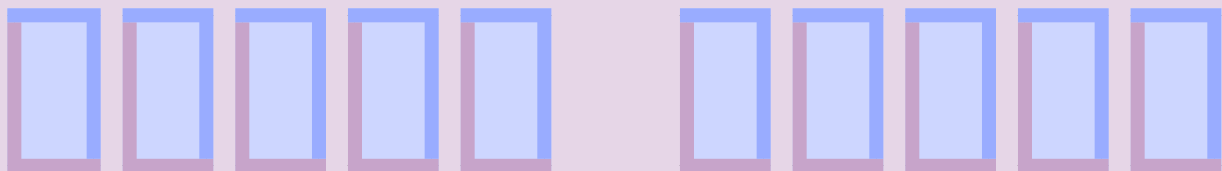
# To solve or not to?

## WHAT AM I CALLED

1. I am a signal, and if I convolve (convolution) with myself, I will remain unchanged, with the area under me being unity. What am I called?



2. I am the temperature at which Ferromagnetic materials lose their Magnetic properties. What am I called?



Answers to the puzzles of the previous issue.

1	FOURIER
2	THERMISTOR
3	DE-MORGAN
4	CLIPPERS

*Engineering is the application of scientific principles toward practical ends. If the engineering isn't practical, it's bad engineering.*

*-Steve McConnell*

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