



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 2021

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.
I	Foreword	I-5
2	Department Profile	6-7
2	Whizz-Kids	8-11
3.	Awards & Recognitions	11-3
4.	Guest Lectures Delivered	13
5	Events Organized & Attended	14-21
6	Online Certifications	22-23
7	Training, Internships and Placements	24-25
8	Professional Society Activities	25-26
9	Ph.D Awarded	26
10	Research and Development Activities	27-32
11	Industrial Visits	33-37
12	Upcoming Events	38
13	Tech News	38
14	Articles by Faculty and Students	39-40
15	Creative Corner	41-43
16	To solve or not to?	44

President Vignana Jyothi



I extend my sincere congratulations to the department of Electronics and Communication Engineering of Vallurupalli Nageswara Rao Vignana Jyothi Institute of Engineering and Technology. This newsletter is going to be another great initiative taken up by the Department of Electronics and Communication Engineering. It is going to help our students and parents understand the activities in the department and the scope available in this domain. Hoping this newsletter will inspire students to take up the path of Electronics and Communication Engineering and this newsletter doesn't just encourage students to portray their academic excellence but also helps them promote various extracurricular activities thus making them an all-rounder and ready to take up any challenge ahead. Wishing the faculty and the students in their future endeavors and applauding the teamwork which brought about this newsletter.

Sri Daggubati Suresh Babu

General Secretary Vignana Jyothi



I am delighted to see the new initiative taken up by the Department of Electronics Communication Engineering of Vallurupalli Nageswara Rao Vignan Jyothi Institute of Engineering and Technology to bring awareness to the students through this newsletter. This newsletter will help many students and provide a lot of information. Anyone who wants to take a glimpse of the department and get the summarized version of the activities done by the department through the period of a few months, would get a great exposure reading this newsletter. I look forward to seeing the next issues being published further and to the creative and upskilled manner the information is provided to us. Congratulations to the faculty and the students for doing an impressive job on this issue and wishing everyone success.

Er. Jasti Seshagiri Rao

Principal VNRVJIET



As the principal of the institution, I strongly believe in promoting harmony and dedication among students and faculty. “Knowledge has a beginning but no end.” This is a quote that has stuck with me for quite a long time. This newsletter is a great initiative and it provides informative content that helps the students find themselves in this field and move towards which subdomain they want to work in. It also appreciates students not only for their academic pursuits but also for their enthusiasm for various other activities. This newsletter is going to help a lot of students explore more in the domain and work towards their goals. I would like to take this opportunity to appreciate the students and faculty associated with this newsletter for sparing their extra time and efforts. This would not be possible without the coordinated efforts of the students and the faculty and thus, I applaud their hard work and dedication to making this newsletter a success.

Dr. Challa Dhanunjaya Naidu

Director for Advancement & Dean Administration VNRVJIET



I congratulate the entire team for introducing the newsletter for the Electronics and Communication Department. I hope that this newsletter gives the students a fresh perspective and know about the future, the advancements and scope in this domain. It tells us about the various workshops, conferences and lectures being held in and out of the campus that enables students and the faculty to go deeper into the field and develop a better understanding and exposure and making their journey exciting with a thirst to learn more. Furthermore, it gives information about the new skills required the upgrade oneself and adopt to the advancing technologies in the widely growing and competing world. I thank the HoD for this wonderful initiative and all the faculty and students for collectively putting up efforts to create this beneficial product and use its potential to the full extent.

Dr. Bandaru Chennakesava Rao

Head of the Department



I deem it, a pleasure to greet the students, parents, faculty and stakeholders of the Department of Electronics and Communication Engineering [ECE], VNR Vignan Jyothi Institute of Engineering and Technology. The Department of ECE released a newsletter powered by faculty and student research journal publications, and specifically Contribution and Participation at various knowledge-based consortiums like conferences and webinars.

The newsletter is also focused on igniting the student's skillsets to explore the core domain strengths and publish their research articles with weighted significance. Specifically, the innovative skillsets of the department students are showcased in the newsletter.

The newsletter summarizes glimpses of what it is like to be a part of the ECE Department of VNRVJiet. The department focuses on deliberate our readers into the inner functioning of the core domain and the significant role of Electronics and Communication Engineer, and the opportunities in the global market and specifically the recent advancements.

Hoping that this newsletter ignites our students and readers to figure out their role and significance in their chosen domain. This will drive them to catch the success and escalate the thought process for their future endeavors.

Dr. Somineni Rajendra Prasad

Knowledge is a process, not a product.

– Ruth Nanda Anshen.

Department Profile

The department was founded in 1995 and is affiliated to JNTUH and recognized by AICTE-New Delhi. The department offers an Under Graduate (UG) programme in B. Tech. - Electronics and Communication Engineering with an intake of 240 and 3-Post Graduate (PG) Programmes (M. Tech.-VLSI System Design, M. Tech. -Embedded Systems and M.Tech.- Defence Technology) with an intake of 18 each. In addition, the department offers Ph.D Program also. UG programme is accredited by National Board of Accreditation (NBA). The department is recognized by AICTE and JNTUH as a “Research Centre”.

The department has 60 well-experienced and qualified teaching faculty (19 Ph.Ds, 37 pursuing Ph.D and rest are with M.Tech) and 10 experienced non-teaching staff. Faculty are experts in various domains like Embedded & IoT, VLSI, Signal Processing and Communication, etc.

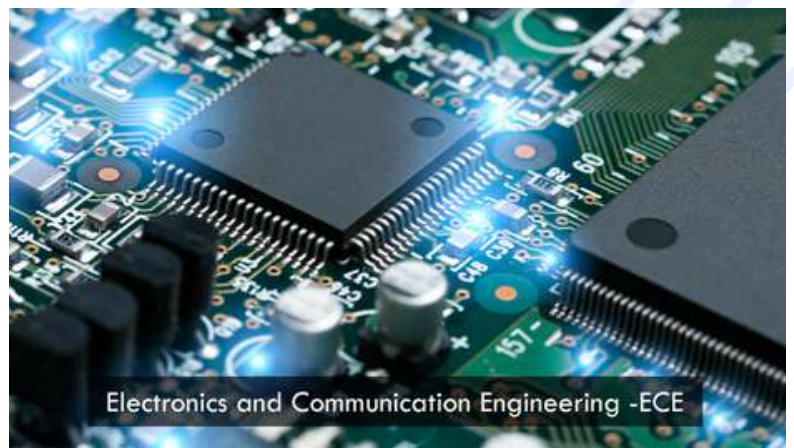
The department has 17 well-equipped state-of-the-art academic laboratories in addition to the Centre-of Excellence and Research Laboratories like RFID and WSN Lab, Virtual Reality Lab and Machine Vision Lab etc. Laboratories are equipped with latest software tools like MATLAB, Synopsys, Mentor Graphics, Xilinx ISE and hardware equipments like mobile station, RF signal generator, Spectrum analyzer, industry compatible FPGAs and PCB printer etc. Department has an exclusive departmental library with around 1000 Volumes and e-Learning resources like NPTEL. All the class rooms of the department are well equipped with ICT tools like LCD Projector and Audio Video Equipment. Digital classroom facilities are also available in the department.

Department conducts various hands-on training programs, and certification courses for all the students starting from 1st year in core technologies in addition to coding skills training. All the students are encouraged to enroll in courses on emerging technologies offered by NPTEL (Swayam), Coursera and other online platforms. Department encourages all the students to visit core industries in and around Hyderabad to get exposure to cutting-edge technologies being implemented in industries.

All B. Tech. and M.Tech. students are provided with Campus Recruitment Training at various phases during their study program. Many of the students are placed in topmost companies like Amazon, Synopsys, Qualcomm, AMD, INTEL, Cadence, Mentor Graphics, TCS, JP Morgon, Delloite, etc. with the highest package of 44 Lakhs for this academic year. Students are encouraged to publish research papers. Many of our alumni pursue M.Tech and Ph.D from IITs, NITs and top foreign universities. They are working in various reputed positions in multinational companies. Few alumni of the department are entrepreneurs.

All the students of the department are actively involved in the activities of professional societies and various cultural and technical clubs of the institute. Our Faculty actively carried out research in various domains, which resulted in 36 funding projects worth Rs. 4 crores from several funding agencies like DRDO, UGC, AICTE, DST, ITRA, etc. and published 14 patents. We also have 325 publications in Web of Science, SCI and Scopus journals/conferences during the last three years. Department has undersigned 18 Memorandums of Understanding (MoUs) with various industries like AMD, Avantel, Ananth Technologies, ICOMM etc. All the faculty members participate actively in various professional societies like IEEE, ISTE, & IETE. The faculty and students are proactive in attending workshops, and conferences and have received various awards and scholarships.

The department is known for its efficiency and holds a strong reputation. The department periodically organizes various workshops, guest lectures and FDP programs to upgrade the developments in various fields and to expose the students to work in core industries. The Department aims primarily at excellence not only in theoretical but also in experimental research through academic projects in various fields. All faculty members are lifetime members of various technical chapters like ISTE, IEEE and IETE.



An investment in knowledge pays the best interest.
– Benjamin Franklin

Whizz-kids

Section Wise Class Toppers (A.Y 2020-2021)

III B. Tech. II Semester

Class	Student Name	Roll Number	SGPA
ECE-A	Gudepu Sathwik	18071A0416	9.05
	Noone Akshay Kumar	18071A0439	8.96
	Gundoju Amruth Chandra	18071A0417	8.91
	Nagula Supritha	18071A0436	8.91
	Purella Shivani	18071A0448	8.91
	Tamarapalli Gnanam Sindhu	18071A0454	8.91
ECE-B	Narra Ajay Sai Reddy Y	18071A0499	9.41
	Mantrikola Rupa Sreelekha	18071A0493	9.19
	Ponnam Vyshnavi	18071A04A7	9.05
ECE-C	Akuthota Sindhu Priya	18071A04C4	9.32
	Challamalla Sirichandana	18071A04D2	9.28
	Arepalli Vaishnavi	18071A04C5	9.14
ECE-D	Doddi Chaturya	18071A04K3	9.46 ★
	Rasi Pratyusha Bhatta	18071A04P6	9.32
	Bandi Nikitha	18071A04J2	9.23

Anyone who has never made a mistake has never
tried anything new.

-Albert Einstein

Section Wise Class Toppers (A.Y 2020-2021)

II B. Tech. II Semester

Class	Student Name	Roll Number	SGPA
ECE-A	Pulagiri Madhuri	19071Ao441	9.35
	Siiddhesh Parag Uttarwar	19071Ao448	9.35
	Bojja Saikiran	20075Ao402	9.25
	Haralapur Tanuja	19071Ao415	9.15
ECE-B	Ane Yamini	19071Ao465	9.55
	Vangara Paniteja	19071Ao4B9	9.50
	Maddika Sai Varsha	19071Ao494	9.35
ECE-C	Thattepally Meenakshi	20075Ao419	9.55
	Dukkipati Vijay Sai	19071Ao4D3	9.48
	S Sai Pravallika	19071Ao4G8	9.48
	Mariserla Bhavana	19071Ao4E8	9.40
	Penmetsa Tanusree	19071Ao4G3	9.40
ECE-D	Sneha Siddavatam	19071Ao4Q1	9.40
	Koneti Raj Kumar	20075Ao421	9.25
	Neela Akshitha	19071Ao4N5	9.05

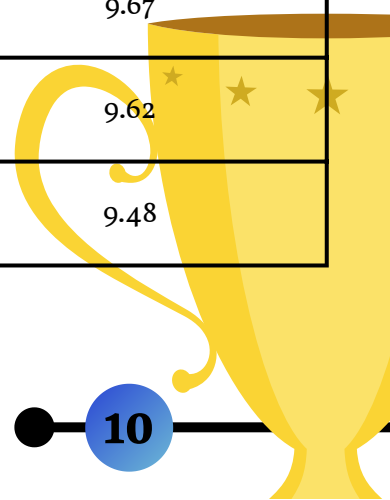
Don't put a limit on anything. The more you dream, the farther you get.

– Michael Phelps.

Section Wise Class Toppers (A.Y 2020-2021)

I B. Tech. I Semester

Class	Student Name	Roll Number	SGPA
ECE-A	Arra Hrushitha Reddy	20071Ao405	9.34
	K Neha	20071Ao428	9.29
	Kuruva Gautham Kumar	20071Ao436	9.24
ECE-B	Kothakonda Shoneeth	20071Ao480	9.53
	Manchala Ramchand	20071Ao487	9.53
	Dhupati Prudhvi Raju	20071Ao470	9.39
	Pasupunoori Sai Teja	20071Ao499	9.39
ECE-C	Kandhi Pravallika Reddy	20071Ao4E4	9.53
	Vallakati Kranthi Kumar	20071Ao4H5	9.39
	Akkineni Satya Srujan	20071Ao4C1	9.24
	Sana Sreyas	20071Ao4G7	9.24
ECE-D	Udipi Vaishnavi	20071Ao4Q2	9.67
	Sammoji Shyamala	20071Ao4P7	9.62
	Ananya Ummadi	20071Ao4J5	9.48



Section Wise Class Toppers (A.Y 2020-2021)

I M. Tech. I Semester

Specialization	Student Name	Roll Number	SGPA
Embedded Systems	Bolumalla Surya	20071D5502	8.48
	Valle Bhuvana Kruthi	20071D5512	8.45
	Gayam Lalitha Priya	20071D5503	8.33
	Pragnapana Medhinya	20071D5509	8.33
VLSI System Design	Y SravyaMounika	20071D5711	8.93
	Kota Murali Mohan	20071D5703	8.93
	Gotikala Caral Leo	20071D5701	7.93
	Nandi Bhavana	20071D5707	7.77

Awards & Recognitions

- Dr. Padma Sai**, Professor received Anna University National Award for the "Outstanding Academic Teacher Award " from ISTE National/Regional Faculty Awards 2020 during Award Distribution Ceremony held at Y.B. Chavan Centre, Mumbai on 5th October 2021.



Dr. Y. Padmasai receiving Outstanding Academic Teacher Award



- **D. KanthiSudha**, Assistant Professor has been acknowledged through a certificate for her exceptional contribution as a Primary Evaluator in "Toycathon 2021" by AICTE & Ministry of Education Innovation cell on 9 th December 2021.



- **Dr. Y. Padma Sai**, Professor received the IEEE India council Outstanding WiE Volunteers award on 10th December 2021.
- **Ch. Abhilash** (2007IA4KI) , participated as a Competitor in the 74th Senior **National Aquatic Championships-2021** conducted by Swimming Association from 26th October to 29th October 2021.
- **Anish Y** (2007IA0404), **Tarun V** (21075A0406), **G. Raghavendra** (2007IA0424) and **G Rahul** (2007IA0425) received **gold award** for their innovation "**Home Automation using Smart Glass**" in Global Young Scientist Challenge (**GYSC 2021**), IBS Global on 15 th December 2021.



Participating in a global science challenge (GYSC) with unique ideas of people from different countries was exciting. During the project expo I came to know about some of the technologies that I didn't know before and implementing these technologies to solve different real life problems was interesting.

-Tarun Vishlavath

GYSC has given us experience about the various scientific methods that can be used to solve real world problems. With the help of our faculty, working on our projects was challenging and fun. GYSC is a great platform to present ones idea to the world.

-Rahul Guguloth

Knowledge is power. Information is liberating.

Education is the premise of progress, in every society, in every family

-Kofi Annan

With me and my team brainstorming for ideas, we realized how deep we have to go looking for answers to very simple problems in everyday life. Looking at the competition with one's idea better than others and the wide range of problems that require solutions and the scope for improvement gave me a motivation to keep learning more and do my very best in my future endeavors.

-Anish Yalavarthi



Rahul, Raghavendra, Tarun, and Anish demonstrating their idea in GYSC 2021

Guest Lecture Delivered

- **Dr. Y. Padma Sai**, Professor delivered a talk as a Guest Speaker at the inauguration of the IEEE student branch at **Narayana Engineering College**, Gudur on 20th October 2021.
- **Dr. S. Rajendra Prasad**, Professor & Head and **Dr. R. Sravanth Kumar**, Assistant Professor acted as session chairs at the International Conference on Trends in Electronics and Health Informatics (**TEHI 21**), conducted by PSIT Kanpur (IEEE- Uttar Pradesh) from 16th to 17th December 2021.



- **Dr. S. Rajendra Prasad**, Professor & Head, delivered a Lecture in One-Week AICTE-ISTE sponsored Induction/Refresher Program on '**Electronic Circuit Analysis with MATLAB**' on 29th December 2021, organized by Geethanjali College of Engineering and Technology, Hyderabad.

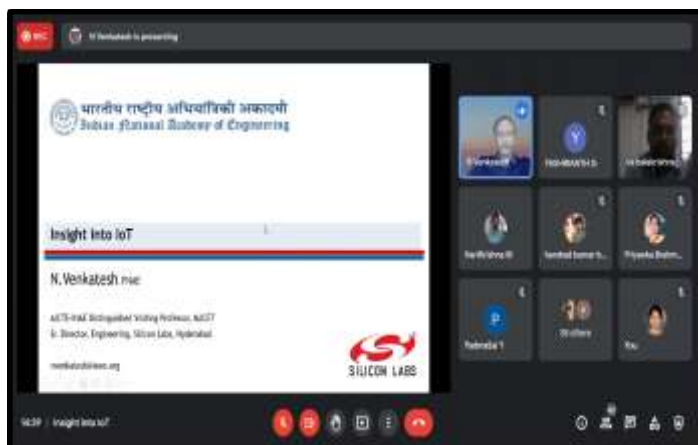
Events Organized

- Distinguished Lecture on “**Large Area Electronic Skin**” by **Dr. Ravindher Dahiya**, Electronic and Nanoscale Engineering School of Engineering University of Glasgow, Glasgow, Scotland on 27th November 2021 for III & IV B. Tech. students.
- Guest Lecture on “**Applications of Operational Amplifier**” by **Mr. P. Satyanarayana**, faculty of ACE GATE Academy on 22nd October 2021 for III & IV B. Tech. students.



Mr. P. Satyanarayana delivering lecture to III and IV B.Tech students

- Guest Lecture on “**Insight into IoT**”, by **Mr. N. Venkatesh**, Senior Director, Engineering, **Silicon Labs**, Hyderabad under AICTE-IANE-Distinguished Visiting professor VNRVJiet for II & III B.Tech. students on 17th November 2021.



Guest lecture by Mr. N. Venkatesh

- Guest Lecture on “**Wireless Technologies in IoT**” under AICTE-INAE DVP Scheme by **Mr. N. Venkatesh**, Senior Director, Engineering-Silicon Labs, Hyderabad for III B. Tech. & IV B. Tech. Students on 19th November 2021.



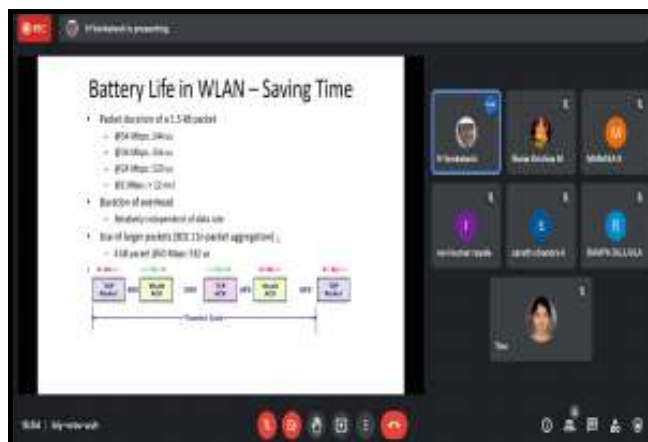
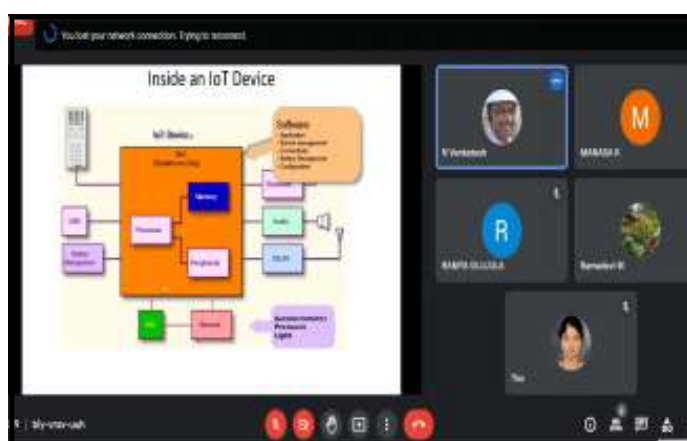
Guest lecture by Mr. N. Venkatesh

- Guest Lecture on “**Edge Intelligence**” by **Mr. N. Venkatesh**, Senior Director, Engineering-Silicon Labs, Hyderabad III B. Tech. & IV B. Tech. Students on 29th November 2021.



Guest lecture by Mr. N. Venkatesh

- Guest Lecture on “**Battery Life Enhancement in IoT devices**” by **Mr. N. Venkatesh**, Senior Director, Engineering-Silicon Labs, Hyderabad for III B. Tech. & IV B. Tech. Students on 30th November 2021.



Guest lecture by Mr. N. Venkatesh

Doubt grows with knowledge

-Johann Wolfgang von Goethe

- Workshop on “**PCB Design & Fabrication**” by **Technotran Electronic Solutions** from 20th to 23rd December 2021 for II B. Tech. students.



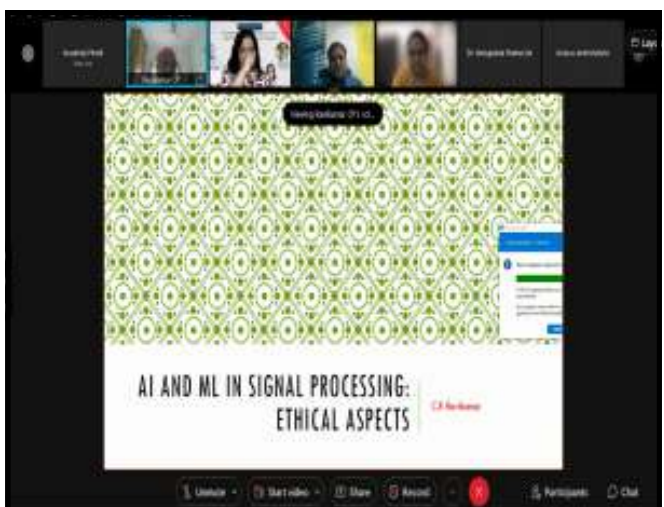
Students attending workshop on "PCB design"

- Guest Lecture on “**Opportunities and Challenges in VLSI Industry**” by **Mr. Lakshmi Narayana Kamarthi**, Senior Manager, NXP Semiconductors Pvt. Ltd, Bangalore on 22nd December 2021 for I M. Tech. VLSI System Design students.



Mr. Lakshmi Narayana Kamarthi addressing M. Tech VLSI system design and II B. Tech students

- Guest Lecture on “**Opportunities and Challenges in Electronics Industry**” by **Mr. Lakshmi Narayana Kamarthi**, Senior Manager, NXP Semiconductors Pvt. Ltd, Bangalore on 22nd December 2021 for II B.Tech. Students.
- Seasonal School on “**Recent Advances in Artificial Intelligence for Signal Processing**” organized by **IEEE SPS SBC** from 28th to 31st December 2021.



Participants of seasonal school

Events Attended

The faculty of the department participated in various events including Webinars, Guest lectures, Workshops, and FDPs on emerging technologies.

Name of the faculty	Event attended
Ms. G. Ramya, Assistant Professor	Webinar on Good Governance “ Improving Ease of Doing Business, Reducing Compliance Burden ” organized by the Ministry of Education (MoE) and AICTE on 1st October 2021.
Dr. V Priyanka, Assistant Professor	Workshop on “ Sensors Council ” by IEEE in Vardhaman College of Engineering on 21st October 2021.

Name of the faculty	Event attended
Dr. Y. PadmaSai, Professor	Session on " 2021 R10 MINI POCO " presented by IEEE Hyderabad Section on 2nd & 3rd October 2021.
	Webinar on " Applications of Space Science & Technology in Medical arena: Our Initiatives " by Mr. Jerry Calvin Jared Scientist/Engineer Technology Development & Management Group Vikram Sarabhai Space Center Indian Space Research organization on 23rd October 2021.
	Talk on " AI at the Core of Microsoft products " by Dr. Shobana Balakrishnan, Partner Program Manager at Microsoft's core AI group organized by IEEE Hyderabad Section Women In Engineering AG on 30th October 2021.
	Workshop on " Examination Reforms " organized by AICTE from 8th to 10th November 2021.
	Webinar on " Guidance & Introduction to Front-End Web Development " by Mr. Praveen Kumar Purushotham with the Support Student Branches: SVCE-Tirupati and VNRVJIET on 2nd November 2021.
	Workshop on " Region 10 Conference Leadership " organized by IEEE MCE Education and Engagement on 14th November 2021.
	IEEE R10 Women Inspire Women (WIW) Symposium organized by IEEE- WIE AG UP Section India on 9th November and 10th November 2021.
	IEEE Student Branch Inauguration at IARE on 24th November 2021.

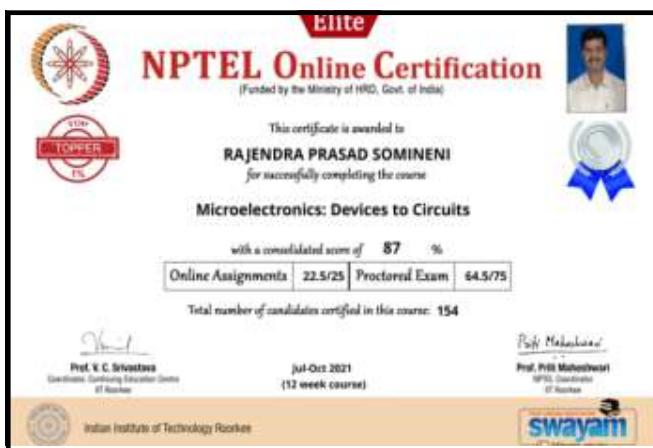
Name of the faculty	Event attended
Ms. A. Lavanya, Assistant Professor	One Week National Level FDP On “Administrative Capacity Building” organized by Satyabama Institute of Science and Technology , Chennai from 25th to 31st October 2021.
Ms. K. Deepthi, Assistant Professor	Workshop on “Performance analysis of RF system using SystemVue tools” organized by Department of ECE, Vasavi College of Engineering in association with Keysight Technologies, Hyderabad , 7th - 9th October 2021.
Ms. Helan Satish, Assistant Professor	ATAL FDP on “Computing Constructs for Modelling Biology” at JNN College of Engineering from 4th to 8th October 2021.
	Webinar on “Applications of Space Science & Technology in Medical arena: Our Initiatives” by Mr. Jerry Calvin Jared , Scientist/Engineer Technology Development & Management Group, Vikram Sarabhai Space Center Indian Space Research Organization on 23rd October 2021.
Mr. D. Ramesh Reddy, Assistant Professor	Train Trainer’s program on “Internet of Things” at GRIET organized by IEEE Skill connect program from 22nd to 26th November 2021.
Dr. Y. Chalapathi Rao, Associate Professor	IEEE SPS Summer School on “Internet of things for Biomedical and Healthcare Applications” organized by IEEE VNRVJiet student branch in Association with IEEE SPS, IEEE Hyderabad section , 28th – 31 st December 2021.

Name of the faculty	Event attended
Dr. Y. Padma Sai, Professor Dr. S. Rajendra Prasad, Professor and Head Dr. P. Kishore, Associate Professor Dr.L.V. RajaniKumari, Assistant Professor Dr. Ch. NagaDeepa, Assistant Professor Dr. V. Priyanka, Assistant Professor Mr. K. Sarath Chandra, Assistant Professor Mr. G. Vijaya Kumar, Assistant Professor Mr. B.B. Shabarinath, Assistant Professor Dr. D. Santhosh Kumar, Assistant Professor Mr. JVA. Balakrishna, Assistant Professor Ms. K. Manasa, Assistant Professor	Guest Lecture on “ Insight into IoT ” under AICTE-INAE DVP Scheme by Mr.N. Venkatesh , Senior Director, Engineering-Silicon Labs, Hyderabad AICTE-INAE Distinguished Visiting Professor, VNRVJIET on 17th November 2021.
Dr. S. RajendraPrasad, Professor and Head Dr. Y. PadmaSai, Professor Dr. P. Kishore, Associate Professor Dr. V. Priyanka, Assistant Professor	Distinguished Lecture on “ Large Area Electronic Skin ” by Dr. Ravindher Dahiya , Electronic and Nanoscale Engineering School of Engineering University of Glasgow, Glasgow, Scotland on 27th November 2021.
Ms. G. Shanthi, Assistant Professor	Webinar on “ Modeling Efficient Antenna Arrays using COMSOL Multiphysics ” by COMSOL Multiphysics on 11th November 2021.
Dr. P. Kishore, Associate Professor	AICTE-ATAL FDP on “ Artificial Intelligence in VLSI Chip Design ” from 6th to 10th November 2021.

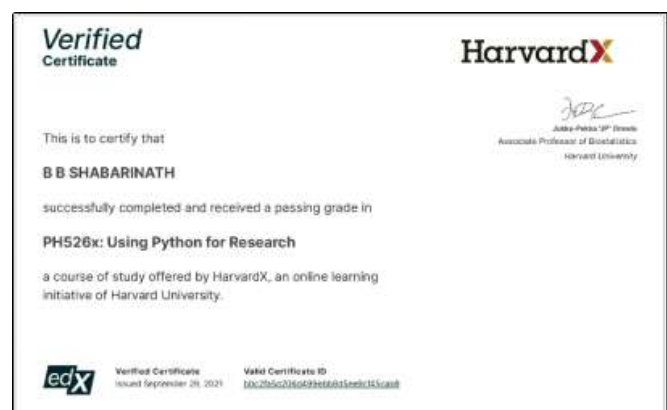
Name of the faculty	Event attended
<p>Dr. Y. Padma Sai, Professor Dr. Ch. NagaDeepa, Assistant Professor Mr. K. Sarath Chandra, Assistant Professor Ms. K. Deepthi, Assistant Professor Mr. B.B. Shabarinath, Assistant Professor Dr. Santosh Kumar Choudary, Assistant Professor Ms. K. Swetha Reddy, Assistant Professor Ms. G. Ramya, Assistant Professor Mr. JVA. Balakrishna, Assistant Professor Ms. K. Manasa, Assistant Professor Ms. Y. Manasa, Assistant Professor Mr. R. Ravi Kumar, Assistant Professor</p>	<p>Guest Lecture on “Edge Intelligence” by Mr. N. Venkatesh, Senior Director, Engineering-Silicon Labs, Hyderabad AICTE-INAIE Distinguished Visiting Professor on 29th November 2021.</p>
<p>Dr. S. Rajendra Prasad, Professor and Head Dr. Y. Padma Sai, Professor Ms. N. Dhana Lakshmi, Associate Professor Dr. P. Kishore, Associate Professor Ms. K.B. Archana, Sr. Assistant Professor Dr. Ch. Naga Deepa, Assistant Professor Ms. G. Shanthi, Assistant Professor Mr. K. Sarath Chandra, Assistant Professor Mr. D. Ramesh Reddy, Assistant Professor Dr. Santosh Kumar Choudary, Assistant Professor Dr. R. Sravanth Kumar, Assistant Professor Ms. M. Rama Devi, Assistant Professor Mr. JVA. Balakrishna, Assistant Professor Ms. K. Manasa, Assistant Professor Mr. R. Ravi Kumar, Assistant Professor</p>	<p>Guest Lecture on “Wireless Technologies in IoT” under AICTE-INAIE DVP Scheme on 19th November 2021.</p>
<p>Mr. R. Ravi Kumar, Assistant Professor Mr. B B Shabarinath, Assistant Professor</p>	<p>ATAL FDP on “VLSI Design Techniques and its Applications in AI/ML” from 15th to 19th November 2021.</p>
<p>Dr. Ch. Naga Deepa, Assistant Professor Mr. K. Sarath Chandra, Assistant Professor Ms. G. Ramya, Assistant Professor Ms. K. Manasa, Assistant Professor Mr. R. Ravi Kumar, Assistant Professor</p>	<p>Guest Lecture on “Battery Life Enhancement in IoT devices” under AICTE-INAEDVP Scheme for by Mr. N. Venkatesh, Senior Director, Engineering-Silicon Labs, Hyderabad AICTE-INAIE on 30th November 2021.</p>

Online Certifications

- **Dr. Rajendra Prasad S**, Professor & Head, has successfully completed and stood as **the topper** of the NPTEL Course “**Microelectronics: Devices to Circuits**”, July – October 2021.
- **Mr. J.V.A. BalaKrishna**, Assistant Professor has successfully completed and one of the toppers (in 5%) of the NPTEL Course “ **Introduction to Internet of Things**”, July – October 2021.



- **Mr. B B Shabarinath**, Assistant Professor successfully completed and received a passing grade in "**PH526x: Using Python for Research**" a course of study offered by HarvardX, an online learning initiative of Harvard University on 29th September 2021.



- **Mr. Yashaswi Lakku** (I907IA04M4) has successfully completed and one of the toppers (in 5%) of the NPTEL Course “**Essential Mathematics for Machine Learning**”, July – October 2021.



If you are not willing to learn, no one can help you.

If you are determined to learn, no one can stop you. – Zig Ziglar.

S.No.	Name of the faculty	Name of the NPTEL Course	Month & Year
1	Ms. Kattekommula Swetha & Ms. Ch. Raja Kumari	Python for Data Science	October 2021
2	Mr. B B Shabarinath	C Based VLSI Design	October 2021
3	Mr. V A Balakrishna Jakka	Introduction to Internet of Things	October 2021
4	Mr. Vijaya Kumar Gurralla	Essential Mathematics for Machine Learning	October 2021
5	Mr. D. Ramesh Reddy	Introduction to Industry 4.0 and Industrial Internet of Things	October 2021
6	Mr. K. Naresh & Ms. Y. Manasa	Introduction to Machine Learning IITM	October 2021
7	Ms. Sangeetha K	Introduction to Wireless and Cellular Communications	October 2021
8	Dr. S. Rajendra Prasad	Microelectronics Devices To Circuits	October 2021
9	Mr. K. Sarath Chandra	Problem Solving through Programming In C	October 2021
10	Ms. Gujjula Ramya	Signal Processing for mm Wave communication for 5G and beyond - online, Introduction to Machine Learning	October 2021

The world is a book and those who do not travel read only one page.”

— St. Augustine

Training, Internships & Placements

Training

II Year and III Year B. Tech. students were trained in Front End Technologies and Coding Skills respectively.

S.No.	Particulars of the event	Organizer	Beneficiaries
1	GATE Training Programme under Prerana AICTE in 2021-22.	ECE Faculty - Dr. V. Sagar Reddy, K Ram mohana Reddy, Dr. S. Rajendra prasad	III B. Tech. Students
2	Training Program on "Competitive Coding Skills"	Smart Interviews team	III B. Tech. Students
3	Front End Technologies	Cantilever team	II B. Tech. Students

Internship

- Samartha Raj N** (18071A0451), **M Rupa Sreelekha** (18071A0493) & **M Sai Sharan** (19075A0406) of III B.Tech students are selected for internship program in **Synopsys**.

I have been working in SYNOPSYS for last six months and I must say that I have enjoyed my experience working there. I have explored many different fields in VLSI domain, everything that I did was new and fun. If you are deeply interested in VLSI, SYNOPSYS is a great place to start, SYNOPSYS not only deals with VLSI but also focuses on automation so those who are also interested in coding can also enjoy working there. Apart from work we have a lot of fun, there is good work-life balance. So in short I am very happy to be a part of SYNOPSYS.

-Samartha Raj



I have been working with SYNOPSYS since six months. Talking about the work experience in SYNOPSYS, we get exposure to hands on experience to put our VLSI theoretical knowledge .

-Rupa Mantrikola

Your most unhappy customers are your greatest source of learning.

-Bill Gates



Working with SYNOPSYS is a great experience. One can explore many things and can acquire good knowledge in the field of VLSI. A student who is fascinated with VLSI will get good exposure and hands-on experience to apply the theoretical knowledge. Work culture and work life balance is very good at SYNOPSYS. I'm very happy and proud to be a part of SYNOPSYS.

-Sai Sharan Morisetty.

Placements

- A **Sindu Priya** (18071AO4C4) is selected in Walmart with a package of 23 Lakhs

Hi Everyone!! I am super excited to join in the Walmart global tech India. I'm glad that I am selected in the fortune no. 1 company. The company portfolio looks so good and it is very employee friendly. I got a wonderful opportunity to start my career with Walmart. I personally believe that Walmart is a very good product based company to start the career. Looking forward to achieve more milestones in the future



-Sindu Priya

Placement details of B.Tech. 2018-2022 batch up to December 2021		
No. of Students placed	Highest Package (Lakhs)	Average Salary (Lakhs)
229	44.15	6.80
95.4% of the students got placed with an average salary of 6.8 LPA		

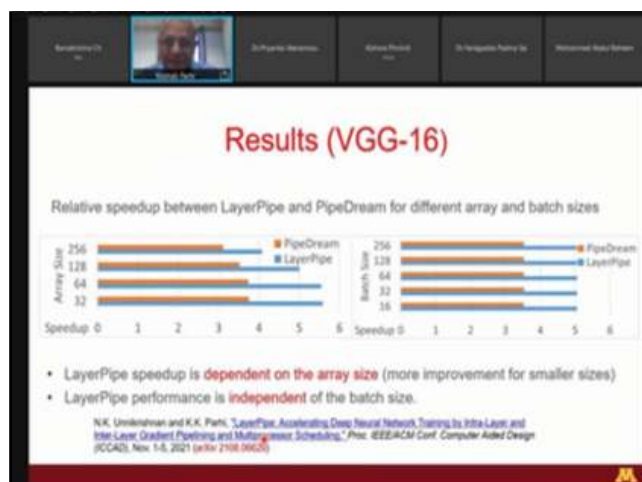
- Highest package : 44.15 Lakhs**

Professional Society Activities

IEEE

- The proposal titled "Recent advances in artificial intelligence for Signal Processing" has been approved with US \$3000 for virtual event and US \$5000 for in-person event.
- Submitted proposal for 2021 IEEE Nano Technology Council Support Grant for Student Branch Chapters.

- IEEE VNRVJIET Student Branch received an amount of Rs. 37185 /- towards RIO WIE Outstanding SBAG Award-VNR VJIET IEEE WIE Student Branch Affinity Group (Hyderabad Section) on 27th November, 2021.
- IEEE Hyderabad Section Student Activity Committee has recognized our institute as Exemplary Student Branch on 04th December, 2021.
- Dr. Y. Padma Sai, Professor organized an event named “Accelerator Architectures for Deep Neural Networks: Inference and Training” by Prof. Keshab Parhi, UMN Electrical & Computer Eng. USA on 08th October, 2021. The event was conducted by IEEE HYDERABAD SECTION CASS & IEEE VNRVJIET CASS.
- The Event is jointly Organized by Joint chapter of Circuits and Systems/Electronic Devices Societies where IEEE VNR SB and IEEE SRU SB stood as supporting SBs. The talk was conducted through WebEx platform. Almost 30 participants had joined the session where there were some faculty and some students who are determined towards the field of Deep Neural Networks. The session started with the discussion about the Data Explosion (Requirement of Data storage and Memory vs Performance Tradeoff). He explained some of the research works that are going on in these fields.



- VNRVJIET SB and IEEE SPS, Hyderabad section organised an IEEE membership development and Officer Training programme on 04th October, 2021 .

Ph.D Awarded

- **Dr. Ch. Naga Deepa**, Assistant Professor was awarded Ph.D. by JNTUH for the thesis “**Exploration of variations in Hand Gesture based Telugu Character recognition using Machine learning Classifier**” Under the Guidance of **Dr. N. Balaji**, Professor, JNTUK & **Dr. V. Padmaja**, Professor on 16.11.2021.



Dr. Ch. Naga Deepa receiving Ph.D

Research & Development

Journals/ Conferences/Book Chapters

S.No.	Name of the Faculty	Title of the Paper	Conference/Journal
1	Dr. L. V. Rajani Kumari, Assistant Professor	Classification of ECG beats using optimized decision tree and adaptive boosted optimized decision tree.	International Journal on Signal, Image, and Video Processing , vol. 16, pp. 695–703, October 2021.
2	Mr. Pradeep Kumar, Assistant Professor	Recasted nonlinear complex diffusion method for removal of Rician noise from breast MRI images.	The Journal of Defense Modeling and Simulation: Applications, Methodology , Technology, pp. 1548–5129, 8th October, 2021.
3.	Dr. Y. Padma Sai, Professor	Detection of Cardiac Arrhythmia using Deep CNN and optimized-SVM.	Indonesian Journal of Electrical Engineering and computer science , Vol. 24, No. 1, pp. 217~225, October 2021.
4.	Ms. Narra Dhanalakshmi, Associate Professor	Video Representation Based on Optical Flow for Dynamic Content Analysis.	Journal of Theoretical and Applied Information Technology , Vol.99. No 20, October 2021.
5	Mr. Radha Krishna Guntur, Associate Professor	Automatic Classification of Foreign Language Accent	2021 2nd Global Conference for Advancement in Technology (GCAT) 1-3 October 2021.
6	Dr. K. Kalyana Srinivas, Assistant Professor	Artificial Intelligence Based Predictive Threat Hunting in The Field of Cyber Security	2nd Global Conference for Advancement in Technology (GCAT), pp.1-6, 1-3 October 2021.
7	Dr. K. Kalyana Srinivas, Assistant Professor	Artificial Intelligence based predictive threat hunting in the field of cyber security	GCAT 21 Conference conducted by Nagarjuna College of Engineering and Technology, in association with IEEE Bangalore, 3rd October.

S.No.	Name of the Faculty	Title of the Paper	Conference/Journal
8	Dr. K. Kalyana Srinivas, Assistant Professor	Satellite Based Road Tagger GPS Radio- Navigation System with Integration of Artificial Intelligence	4th International Conference on Recent Developments in Control, Automation & Power Engineering (RDCAPE), 7-8 October 2021.
9	Dr. K. Kalyana Srinivas, Assistant Professor	Mental Health Disorder Analysis Using Convolution Neural Network Based Speech Signal Model with Integration of Artificial Intelligence	4th International Conference on Recent Developments in Control, Automation & Power Engineering (RDCAPE), pp.544-547, 7-8 October 2021.
10	Dr. K. Kalyana Srinivas, Assistant Professor	Design Of Memristor Based Logic Gates for Low Power Wireless Sensors in Biomedical Applications	6th International Conference on Signal Processing, Computing and Control (ISPCC2K21) conducted by Jaypee University of Information and Technology, Wanknaghat, Himachal Pradesh in association with IEEE Delhi section, 9th October.
11	Dr. K. Kalyana Srinivas, Assistant Professor	Ear - Based Biometric- System Using Artificial Intelligence	6th International Conference on Signal Processing, Computing and Control (ISPCC), pp.377-382, 7-9 October 2021.
12	Dr. K. Kalyana Srinivas, Assistant Professor	Skin Pathology Detection Using Artificial Intelligence	6th International Conference on Signal Processing, Computing and Control (ISPCC), pp.373-376, 7-9 October 2021.
13	Dr. K. Kalyana Srinivas, Assistant Professor	Artificial Intelligence Based Algorithms for Driver Distraction Detection: A Review	6th International Conference on Signal Processing, Computing and Control (ISPCC), pp.383-386, 7-9 October 2021.

The capacity to learn is a gift; the ability to learn is a skill;
the willingness to learn is a choice.

– Brian Herbert.

S.No.	Name of the Faculty	Title of the Paper	Conference/Journal
14	Dr. K. Kalyana Srinivas, Assistant Professor	Infection Segmentation of Leaves Using Deep Learning Techniques to Enhance Crop Productivity in Smart Agriculture	6th International Conference on Signal Processing, Computing and Control (ISPC2K21) conducted by Jaypee University of Information and Technology, Waknaghat, Himachal Pradesh in association with IEEE Delhi section, 9th October.
15	Dr. K. Kalyana Srinivas, Assistant Professor	Satellite based road tagger GPS radio navigation system with integration of Artificial Intelligence	4th International Conference on Recent Developments in Control, Automation and Power Engineering (RDCAPE2021) conducted by AMITY university, NCR, in association with IEEE Delhi section, 10th October.
16	Mr. Anudeep Peddi, Assistant Professor	Rice Disease Detection and Classification Using Artificial Intelligence	1st International Conference on Innovations in Signal Processing and Embedded systems (ICISPES-2021), 22nd – 23rd October 2021.
17	Ms. Helan Satish, Assistant Professor	A Simulation Study on Electrical Activity of Ventricular Endocardial Tissue due to SCN5A L812Q Mutation	43rd Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC 2021) conducted by The Institute of Electrical and Electronic Engineers Engineering in Medicine and Biology Society, 1-5 November 2021.
18	Dr. Y. Padma Sai, Professor	Removal of Noise from ECG Signals using Residual Generative Adversarial Network	8th IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON 2021), 11-13 November 2021.

S.No.	Name of the Faculty	Title of the Paper	Conference/Journal
19	Ms. J.L.V RamanaKumari, Assistant Professor	Power Optimization Analysis of Different SRAM Cells Using Transistor Stacking Technique	8 IEEE Uttar Pradesh Section International Conference on Electrical,Electronics and Computer Engineering (UPCON 2021), 11-13 November 2021.
20	Dr. L. V. Rajani Kumari, Assistant Professor	Detection of Sleep Apnea from ECG Signal using Various Machine Learning Algorithms	8 IEEE Uttar Pradesh Section International Conference on Electrical,Electronics and Computer Engineering, (UPCON 2021) 11-13 November 2021.
21	Mr. Kattekola Naresh, Assistant Professor	Efficient Design of Artificial Neural Networksusing Approximate Compressors and Multipliers.	2021 IEEE International Symposium on Smart Electronic Systems (ISES), December 2021.
22	Ms. L. V. R. Rajani Kumari, Assistant Professor	A hybrid Approach for Enhancement of the ECG signal	8th IEEE Uttar Pradesh Section International Conference on Electrical,Electronics and Computer Engineering, (UPCON 2021)11-13 November 2021.
23	Mr. A. Ramesh Kumar, Associate Professor	Energy Efficient Adiabatic Logic Against Power Analysis Attacks for IOT Applications	4th International Conference on Microelectronics, Signals and Systems , 18-19 November 2021.
24	Mr. Vijaya Kumar Gurrula, Assistant Professor	Advanced Deep Learning Model for Sleep Stages Classification Using Single Channel EEG.	International Journal of Design Engineering , Pp-9108– 9118, November 2021.

Education is not the filling of a pail, but the lighting of a fire.

— W.B. Yeats

S.No.	Name of the Faculty	Title of the Paper	Conference/Journal
25	Mr. K. Naresh, Assistant Professor	Efficient Design of Artificial Neural Networks using Approximate Compressors and Multipliers	7th IEEE International Symposium on Smart Electronic Systems (ISES) 2021, 21st December.
26	Dr. K. Kalyana Srinivas, Assistant Professor	Design, Analysis & Comparison of Novel, High-Speed Multiplier using Ripple Carry Adder and Compressors	IEEE Conference on IoT for Rural Health Care (CIRH21), Organised by Vignan's Foundation for Science, Technology and Research, Guntur, 17th December 2021.
27	Dr.K. Kalyana Srinivas, Assistant Professor	Artificial Intelligence based Smart Traffic Control with Multi Agent Intersection System	International Conference on Artificial Intelligence: Theory and Applications (AITA-2021), Organized by Dept. of ECE, NIT- Patna, India, 23rd December.
28	Dr.K. Kalyana Srinivas, Assistant Professor	Applications of Artificial Intelligence in Robotics for Human Habitation on MARS	International Conference on Artificial Intelligence: Theory and Applications (AITA-2021) Organized by Dept. of ECE, NIT- Patna, India, 23rd December.
29	Dr.K. Kalyana Srinivas, Assistant Professor	Role of Artificial Intelligence in Agriculture and its Applications in Farming	International Conference on Artificial Intelligence: Theory and Applications (AITA-2021) Organized by Dept. of ECE, NIT- Patna, India, 23rd December.
30	Dr. K. Kalyana Srinivas, Assistant Professor	Role of Artificial Intelligence in the diagnosis of Chronic Skin Diseases and its necessity.	International Conference on Artificial Intelligence: Theory and Applications (AITA-2021), Organized by Dept. of ECE, NIT- Patna, India, 24th December

The more that you read, the more things you will know. The more that you learn, the more places you'll go.

S.No.	Name of the Faculty	Title of the Paper	Conference/Journal
31	Dr. K. Kalyana Srinivas, Assistant Professor	Role of Artificial Intelligence in detecting lung cancer using low radiation dose computed tomography	International Conference on Artificial Intelligence: Theory and Applications (AITA-2021), Organized by Dept. of ECE, NIT- Patna, India, 24th December.
32	Dr. Santosh Kumar Choudary, Assistant Professor	Detection of Credit card Fraud using Machine Learning	International conference on Artificial Intelligence : Theory & Applications (AITA-2021) on 23rd-24th December ,2021.
33	Dr. K. Kalyana Srinivas, Assistant Professor	Role of Artificial Intelligence - Robots during Covid-19 pandemic and its technological limits	International Conference on Artificial Intelligence: Theory and Applications (AITA-2021), Organised by Dept. of ECE, NIT- Patna, India, 24th December.
34	Dr. K. Kalyana Srinivas, Assistant Professor	Artificial Intelligence based Sensory System and Image Processing Strategies to assist Visually Impaired people in Daily- Life Activities	1st International Conference on Recent Trends in Electrical Electronics Communication and Instrumentation , Organized by CVR College of Engineering, 27th December.
35	Dr. Ranjan K Senapati, Professor	Image multiplication with a power-efficient approximate multiplier using a 4:2 compressor	Advances in Image and Data Processing using VLSI Design , Volume 1, ISBN: 978-0-7503-3919-3, December 2021.
36	Dr. V. Krishna Sree, Associate Professor	Text/Sign Board Reading Aid for Visually Challenged people	Sixth International Conference on Smart Trends in Computing and Communication System , Scopus , December 2021.
37	Ms. Ch. Rajakumari, Assistant Professor	Estimation of intrapulse modulation parameters of LPI radar under noisy conditions.	International Journal of Microwave and Wireless Technologies , pp. 1759-0787, December, 2021.



INDUSTRIAL VISITS

17th December
2021

HAL AVIONICS

Insights

1. Identification of friend aircraft.
2. Ground Radar provides a precision approach to the understandable range and determines the target and also functions well in bad weather conditions.
3. Air Bone Radar: It's an antenna array used in SU30MKI a heavy-weight fighter aircraft. Operating frequency and range of detection air-to-air range are explained.
4. Tactical air navigation system.
5. VOR/ILS/Marker Receiver.
6. 1 KW HF transmitter.
7. Wave Guide Channel.
8. Hybrid Micro Electronics Technology for RF application in air defense.
9. Battery technology used to power the electronic equipment.



Out of the mountain of despair, a stone of hope.

-Martin Luther King Jr.



ANANTH TECHNOLOGIES

22nd December
2021

Insights

- Use of relays in missile technologies .
- Design of PCB and its usage.
- Operation of RF signals.
- Molding of components on the PCB.
- How the mechanical parts for the circuit boards are manufactured.
- How the conditions for the electrical components are tested .
- Testing the tensile strength of electrical components through accelerometer which is having nearly a range of 300rpm.
- Machinery involved in Temperature testing, Bump testing, Acceleration testing etc. for the missile parts.
- Design of multilayered circuits using software.



The roots of education are bitter, but the fruit is sweet.

-Maxime Lagacé

INDUSTRIAL VISIT GALLERY



Industrial Visit to Ananth Technologies
30-12-2021



Industrial Visit to Hal Avionics 22-12-2021

Educaion is what remains after one has forgotten
what one has learned in school.

-Albert Einstein

INDUSTRIAL VISIT GALLERY



Industrial Visit to Hal Avionics 22-12-2021



INDUSTRIAL VISIT GALLERY

Industrial Visit to Avanth Technologies 30-12-2021

Education is what remains after one has forgotten what one has learned in school. – Albert Einstein

Upcoming Events

- 24th National Conference on e-Governance in Hyderabad, organised by the Department of Administrative Reforms & Public Grievances (DARPG) and the Ministry of Electronics & Information Technology (MeitY), in association with the State Government of Telangana on 8th January 2022.
- Two week FDP on “IoT & Applications (smart systems)” jointly organized by NIT Patna in collaboration with VNRVJiet Hyderabad from 14-25 February 2022.
- Two-week program on “Communication Skills, Modes and Knowledge Dissemination of National Initiative for Technical Teachers Training” by AICTE in February 2022.
- International Mobile and Embedded Technology Conference-2022, 10th-11th March-2022.
- 2022 Mobile and Embedded Technology Conference (MECON), March 2022.
- IEEE International Conference on Communications 16-20 May 2022, Seoul, South Korea Hybrid: In-Person and Virtual Conference Intelligent Connectivity for Smart World.
- IEEE WCNEE 2022 6th International Workshop on Wireless Communications and Networking in Extreme Environments, 30th May 2022 - 1st June 2022.
- IEEE INTERCON 2022-XXIX International Conference on Electronics, Electrical Engineering and Computing, 11th-13th August 2022.
- The Second International Conference on Emerging Techniques in Computational Intelligence, ICETCI 2022 will be held at Mahindra University, Hyderabad on 25th -27th August 2022.
- “Innov-Healthcare 2022: Innovative use of Machine Learning and Deep Learning for Healthcare Empowerment” which will be held under the 14th International Conference on Computational Collective Intelligence (ICCCI 2022) (Core Ranking: B) on 28th -30th September 2022 in Hammamet, Tunisia.

Tech News

- Intel came up with a new cloud edge technology that showcases how education, finance, manufacturing, medicine, transportation and defense industries are transformed through Intel's silicon, software and services.
- Seven defense companies launched on 15th October 2021 would create new opportunities for youth and micro, small and medium enterprises. The country has already placed orders worth Rs. 65,000/- crore for these new companies.
- DRDO successfully tested high-speed expendable aerial target Abhyas off Odisha coast on 22nd October 2021.
- India successfully launched the surface-to-surface ballistic missile Agni-V with 5000 Km range on 27th October 2021.
- Long Range bomb was successfully flight tested by DRDO, Indian Air Force on 29th October 2021.

Ideas are knowledge. When we share knowledge in the written or verbal form, amazing things can happen. -Jim Rohn

Articles

STANDING COIN..!!



There is a place in Hyderabad where a standing coin fulfills our wishes. Did you shock by listening to this? But this is true. When you wish for something and make a coin stand in the presence of a temple then definitely that wish will become true and surprised if we make the coin stand without any wish that coin won't stand. Are you excited to know where that place was located?

Among all the important scared cities in Hyderabad is one with a captivating history-Peddamma Temple. The Peddamma Temple is a popular place to worship the Mother Goddess. Also known as the Peddamma Gudi Temple or Peddamma Thalli Temple, this temple lies in the city of Hyderabad, the capital of Telangana. It lies in the famous Jubilee Hills area of Hyderabad.

As per historical accounts, the Peddamma Temple is over 150 years old, but the temple became famous in the year 1993, when its Raja Gopuram, the entrance tower was built.

Most of the people who stay in Hyderabad or near surroundings greatly adore the goddess and have faith in her. There are some incredible stories behind his great temple they are After the demon assassination, the goddess is thirsty and came to the well nearby to gulp water; then a sphered found an idol of the goddess. So, a house of worship was constructed in that place and now it's called a Peddamma Talli temple. According to another legend, the demon Mahishasura had a boon from Lord Brahma that either man or god can kill him. From then, he became cruel; he became unstoppable. So, to end this God Brahma, Vishnu, Shiva, and goddess Durga incarnated as being with the blessings of the Trinity, and all other gods Goddess Durga demolished the demon Mahishasura in a battle.

Let me tell you about the glory of Peddamma temple: There is no trusted story for the existence of goddess Peddamma, but offered prayers and considered as village deity and treated as Mahakali who is one of the forms in eleven forms of goddess Durga Devi. One of the most prominent acts done by devotees is placing a coin in a vertical direction near Dwajastanam they believe that they wish to come true. If a devotee makes a wish heartfully by offering a prayer, then the goddess compassionates them, so the coins stay vertical.



- Meghana Maganti
20071A04Fo

The eye sees only what the mind is prepared to comprehend.

-Robertson Davies

Faculty must be good Antennas



As a Microwave Engineer it gives me immense pleasure to quote about the role of an antenna in communication systems. “Antenna serves to a communication system the same purpose that eyes serve to a human” - Balanis and it is a known quotation to all of us “Sarvendriyanam nayanam pradhanam” by Acharya Susrutha. Antenna is a transitional structure between free space and a guiding device. It occurred to me how apt this definition is from a faculty perspective too.

Once a student gets admitted into a branch of Engineering, it's the faculty who teach them the courses related to their branch. In the other way round, it can be said that a student views his world of Engineering from the inputs given by a faculty. How the faculty makes the courses interesting opens a new window of perception in the student minds. Transmit to them interesting things about the course and they receive it effectively with less amount of loss. Tune them to your required polarisation and they are aligned with your knowledge sharing, grasping the finest details to the maximum extent possible.

Mould yourself like a reflector antenna giving a huge gain in knowledge and enabling them to travel in their life with the values instilled in them. Grace as a Microstrip patch antenna where the size of your role in their life is minimized but the effect of your teaching is maximised. Suit yourself to be an aperture antenna where you become part of their life without being conspicuous. Line up with your fellow faculty in becoming part of a huge array of antennas contributing to the larger amount of gain that is imparted to a student during his four years stay in the college.

Every student entering a college have their own apprehensions in trusting us and holding our hand in the first year. In the second year, you find the students in the reactive near field region where we have to handhold them till, they are capable enough to let them go. Third year they enter the radiating near field region where they are quite excited to explore the free space which of course depends on their learning levels. The more knowledgeable they become, the more confidence they have to detach from us and learn on their own. Once they enter the final year, they are in the far field region where it's time for us, to allow them in exploring the world on their own. The actual radiation process begins in this region.

A faculty should have the capability of addressing a large group of students with different ability levels, thereby increasing the bandwidth of their antenna. Radiate your proficiency with maximum beam efficiency and minimum stray factor, so that students are equipped to travel progressively with their energy of knowledge in existence. Faculty role is to be a good transitional structure helping in the transition of a student from a process oriented guided inquiry learning phase into a free world, with an ability to build their success stories of life.

D.Kanthi Sudha
Assistant Professor, ECE

Creative Corner



Aishwarya
20071A0402



SAI VINEELA
20071A04A8



MEGHANA MAGANTI
20071A04FO

“I have never let my schooling interfere with my education.”

— Mark Twain

MY DREAM

I dream of waking up early
but my tired mind won't help me

I dream of being confident
but my wavering will won't let me

I dream of studying hard
but my distractions won't help me

I dream of making friends
but my anxious self won't let me

I dream of answering a question
but my fear won't help me

I dream of playing a sport
but alone play wont interest me

I dream of making up a choice
but my perplexed mind won't allow me

I dream of reaching sky high
but these egocentric people won't help me

I dream to satisfy my parents
but my silence self won't help me

I think to give up my life
I close my door
bang my head
shed some tears
sob for an hour
and I dream to become the man of my dreams
Yet it remains a dream

Sai Shanmukh

“You educate a man; you educate a man. You educate a woman;
you educate a generation.”

— Brigham Young

స్నేహం

మనసుని మాలగా అల్లి, మమతల పందిరి వేసె చల్లని అనుబంధం స్నేహం...
అనుభూతుల పూలబాటపై, శిఖరం పైనుంచి జాలువారే అమృతధార స్నేహం...
ఎడారి గుండెల్లో గులాబీలు పూయించే, మమకారపు మధుర స్మృతుల పరిమళం స్నేహం...
హృదయాన్ని, ఆత్మీయతా లిపితో లిఖించే సుమధుర కావ్యం స్నేహం...
శరత్కాల జాబిలి, వెన్నెలలా కురిసి, ఎదలోతుల్లో పరిమళించే జ్ఞాపకాల రవళి స్నేహం...
వసంత మాసపు కోయిల రాగంలా, ఆహ్లాదంగా మనసు ఆలపించే గానం స్నేహం...
అందమైన మధుర భావం...నీ స్నేహం...

– జి.కావ్యశ్రీ
20071A0474

నీవు

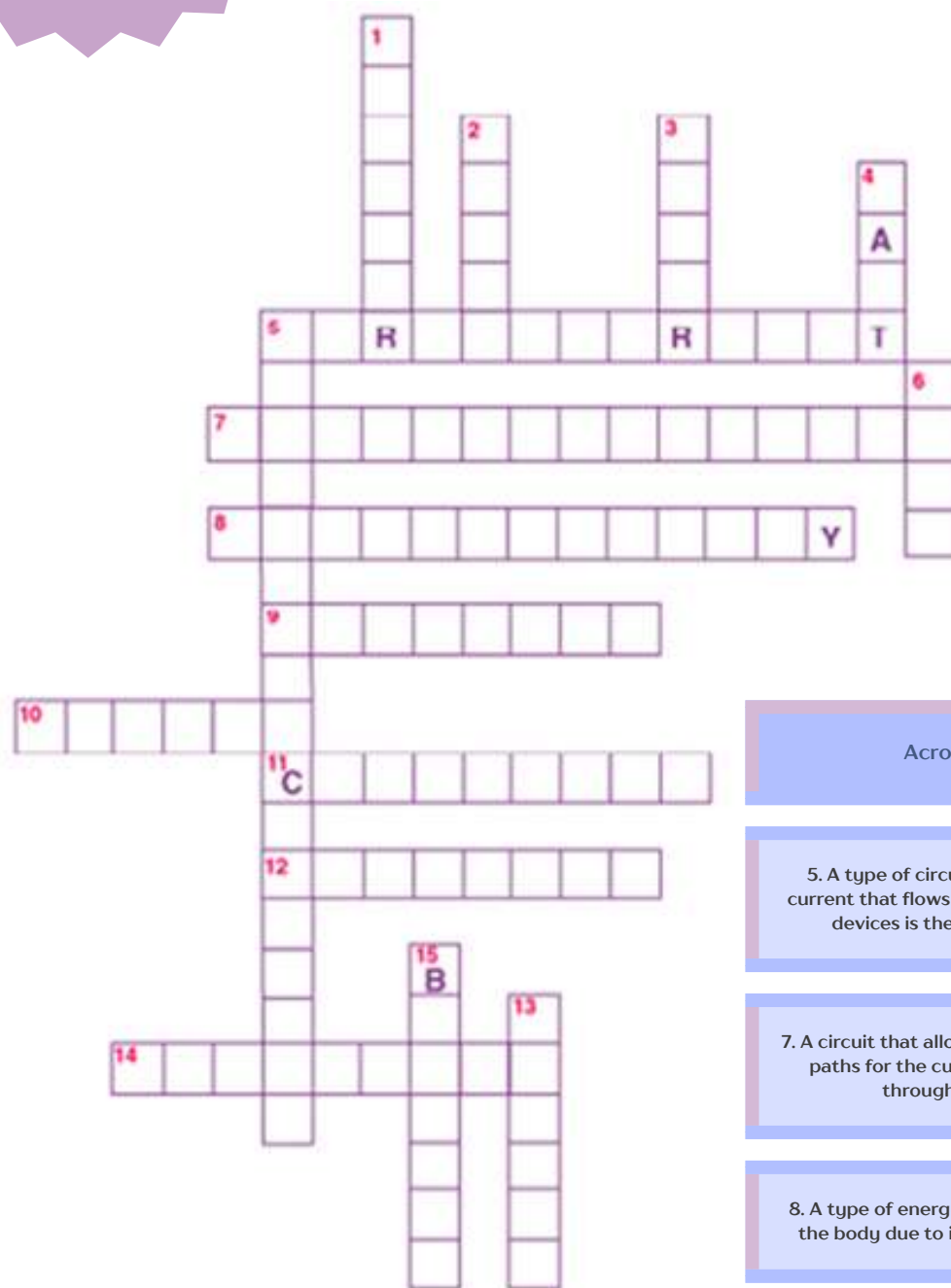
ఆకాశం ఉన్నతంగా ఉన్నచోటనే
నిశ్చలంగా నీలంగా నవ్యంగా ...
నువ్వు నీ పాదం మోపే చోట
కల్మష అరణ్యాలను మొలిపిస్తూ
వాటికి కుతంత్రాల కార్చిచ్చుల్ని
అంటిస్తూ నీలాన్ని నల్లగా మార్చేస్తూ
అదే వర్షాన్ని కురిపించబోయే
కారుమేఘమని మురిసిపోతూ
పదిమందితో చెప్పుకుని
ఎచ్చులికి పోతున్నావు
పచ్చదనాన్ని పోగొట్టుకుని
నీ రూపమే మార్చుకుంటున్నావు ...

– పోపూరి సురేష్ బాబు
అసిస్టెంట్ ప్రొఫెసర్

“Education is the ability to listen to almost anything
without losing your temper or your self-confidence.”

— Robert Frost

To solve or not to??



Across

5. A type of circuit where the current that flows through all the devices is the same (13)

7. A circuit that allows two or more paths for the current to flow through (15)

8. A type of energy possessed by the body due to its motion (13)

9. Elementary particle with a negative charge (8)

10. Unit of Electric Current (6)

11. Material that allows electric current to pass through it (9)

Down

1. The device that measures current in a circuit (7)

2. The unit that measures energy (5)

3. A device that converts electrical energy to mechanical energy (5)

4. Unit of Power (4)

5. Imbalance between negative and positive charges (17)

6. Smallest unit of matter (4)

12. Electrical device that resists the flow of current in a circuit (8)

13. An elementary particle that is identical to the nucleus of the hydrogen atom (6)

14. Device used to measure voltage (9)

15. Device that converts chemical energy to electric energy

Answers for the puzzles of the previous issue.

The learning process continues until the day you die.

-Kirk Douglas

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