

VIDYA JYOTHI INSTITUTE OF TECHNOI

VIDHYULLATHA

ELECTRICAL AND ELECTRONICS ENGINEERING DEPARTMENT NEWS LETTER

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Principal's Desk

It gives me immense pleasure to pen a few words for the VJIT EEE Newsletter. Since its inception, VJIT has been committed to providing quality education to students in undergraduate and postgraduate programs. I am proud to say that we have achieved significant milestones in this pursuit. However, we believe that there is always room for growth, and we remain dedicated to continuous improvement.

As we move forward, we reaffirm our commitment to delivering top-notch education and fostering an environment that nurtures innovation and excellence at VJIT.

I take this opportunity to congratulate all the faculty members for their relentless efforts to enhance their teaching techniques and skills, striving towards achieving excellence.



Patron's Message

An institution serves as a bridge between an individual and their journey to becoming a professional. Vidya Jyothi Institute of Technology exemplifies this role. Over the past twenty four years, we have proudly stood as a platform where numerous technical talents have been nurtured and shaped for a brighter future.

Furthermore, the institution recognizes the importance of equipping students with essential life skills. These skills not only empower them to achieve greater success but also enable them to tackle challenges with confidence in both their professional and personal lives.

I extend my heartfelt congratulations to the newsletter team and all the dedicated staff members for their relentless efforts and contributions.



Editor:

The Department of Electrical and Electronics Engineering (EEE) was established in 1999 with an initial intake of 40 students in the undergraduate program. Over the years, the intake has gradually increased to 120 students. In 2011-12, the department launched its postgraduate program in *Power Electronics and Electrical Drives*, followed by the *Electrical Power Systems* program in 2013.

The department is well-equipped with a dedicated library, spacious and advanced laboratories that provides. It boasts the necessary infrastructure to deliver high-quality education and is fully aligned with the evolving needs of the industry.

Our commitment to excellence is further reinforced by a team of well-qualified and experienced faculty members. I am delighted to share that significant number of students from the department have registered under the *IEI Student Chapter*, reflecting their enthusiasm for professional development.

To keep both faculty and students abreast of the latest advancements, the department regularly organizes seminars, workshops, and technical symposia, fostering a culture of continuous learning and innovation.

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VISION OF THE INSTITUTION

- ❖ To develop into a reputed Institution at National and International level in Engineering, Technology and Management by generation and dissemination of knowledge through intellectual, cultural and ethical efforts with human values
- ❖ To foster Scientific Temper in promoting the World class professional and technical expertise

MISSION OF THE INSTITUTION

- To create state-of-the-art infrastructural facilities for optimization of knowledge acquisition
- ❖ To nurture the students holistically and make them competent to excel in the global scenario
- ❖ To promote R&D and Consultancy through strong Industry Institute Interaction to address the societal problems

VISION OF THE DEPARTMENT

❖ .To become a reputed department in the impartation of professional and technical expertise in the field of Electrical and Electronics Engineering.



MISSION OF THE DEPARTMENT

M1: Imparting Quality Technical Education by provision of state-of-the-art learning facilities.

M2: Preparing the students to think innovatively and find effective solutions to address engineering and societal problems with a multidisciplinary approach maintaining continuous industry interaction.

M3: Encouraging team work and preparing the students for lifelong learning with ethical responsibility for a successful professional career.

PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

PEO1: Equip graduates with a sound foundation in mathematics, science and engineering fundamentals, necessary to build a protective career

PEO2: Graduates will excel in giving solutions to real time problems through technical expertise and operational skill set in the field of Electrical Engineering

PEO3: Graduates will act with integrity in catering the need based requirements blended with ethics and professionalism.

MESSAGE FROM HOD DESK

It is with great pride and joy that I pen this message. My heartfelt congratulations to the dedicated team behind this newsletter for their exceptional effort.

The department is home to a distinctive Model Room, which serves as the cornerstone of researchoriented, project-based learning for our students. This facility has been instrumental in fostering innovation and practical expertise among our learners.

To ensure that both faculty and students stay abreast of the latest advancements in technology, the department regularly organizes seminars, workshops, and technical symposia. Additionally, several industrial visits and hands-on workshops were arranged this semester for 2nd, 3rd, and 4th-year students, providing them with invaluable real-world exposure.

Our department takes pride in shaping students into skilled electrical engineering professionals, well-prepared to tackle the dynamic challenges of the power sector. The EEE Department continues to evolve and progress at an impressive pace, setting new benchmarks in academic and professional excellence.

PHOTO GALLERY

GUEST LECTURES





The Department of EEE organized a guest lecture on "Skills Needed for Careers in Power and Manufacturing" on 17th Feb,2023. The objective of the session was to provide students with a clear understanding of the competencies required to excel in the power and manufacturing industries, which are integral to global infrastructure and economic growth.



The guest lecture on "Fast Charging Techniques for Electric Vehicle (EV) Two-Wheelers" was organized by EEE dept on 5th January,2024, as part of the initiative to promote awareness and innovation in the field of electric mobility. The lecture aimed at shedding light on the evolving technologies and advancements in charging infrastructure, particularly focusing on two-wheelers, which are rapidly becoming a popular choice in the electric vehicle sector.

WORKSHOPS





The National Level Workshop on Power Electronics and Converters was successfully organized by EEE on 14th-15th December 2023 at E block Auditorium. The event aimed to bring together students to explore the latest trends and innovations in power electronics and its application in modern electrical systems.

FACULTY DEVELOPMENT PROGRAMMES

S.No	Title of FDP	No. of participants	Dates of the Event
1	Two day FDP on State-of- the-Art Developments and Innovations in Electrical and Electronics Engineering	28	26-01-2024 to 27- 01-2024
2	Two day FDP on Emerging Trends and Future Opportunities: Cultivating Innovation in EV Technologies	32	19-02-2024 to 20- 02-2024

VISIT TO KRK POWER TRANSFORMERS



Second year EEE students visited KRK Power Transformers,located at Secunderabad on 23rd March ,2024

ACHIEVEMENTS

Department Achievements:

- ➤ Department of Electrical and Electronics Engineering is Accredited by NBA 2022 TIER-I and previously it was accredited TIER-II in 2018 and 2010.
- ➤ Department is recognized as R&D Centre by JNTUH.
- ➤ Department has subscriptions for the latest technology updates for Peer reviewed reputed e-Journals such IEEE, DELNET.
- ➤ Department has MoU with industries to get placement internships and students projects. Some of the industries are HIEE ,HITT,Balaji Electrical and Engineering Works,Interleaved Multidisciplinary Ressearch Centre,Sunseas Tech,Abhijith Solar Energy Pvt Ltd Hyderabad,IPCS Global Solution Pvt.Ltd,Saitronix Electro Pvt.Ltd,Skyy Skill Academy.

Student Achievements:

- ➤ K. Jalender Nath and team of IV Year EEE secured 1st place for the project Dynamic Spintronics innovative propeller under Domain-2 in Contrive -2K24 (Project Expo) conducted on 28th February, 2024 at VJIT
- A. Abhishnu and team of IV Year EEE secured 1st place for the project Industrial Automation of BBQ under Domain-3 in Contrive -2K24 (Project Expo) conducted on 28th February, 2024 at VJIT



Dynamic Spintronics



Industrial Automation of BBQ

CONTRIVE 2K24

EEE Students Participated in Contrive 2k24 and following are the glimpses of EEE Projects



AI Humanoid Robot



Demonstration of Chandarayan 3 Launch and satellites Models





PLC Automation of Barbeque



Floating Solar PV
Power Plant Model



Sand sieving Machine

The department of EEE along with other departments of the college has organized Project Expo on 28th February, 2024.

The project expo was conducted under four domains –

- 1) Environment/Agriculture/Safety/Social needs.
- 2) Robotics/IOT/AI
- 3) Applications of Engineering Techniques
- 4) Development of Software and its Applications.

Each of the domains saw a participation of more than 60+ students.

The event was a grand success with students from all departments putting on their thinking caps and efficiently presenting their ideas in physical form.

Also the department of EEE is proud that 2 batches of EEE students have bagged the First prize in the Project Expo. They have presented their project named PLC Automation of Barbeque and Dynamic Spintronics

ALUMNI MEET 2K24







The Alumni Day Meet of VJIT has been a major event cheerfully anticipated by both the alumni and the students. As the years pass by and winds of change keep blowing, the Alumni Meet too shall keep evolving with the pace of time, hoping to bring to the alumni, an experience that they may cherish all their lives. Vidya Jyothi Institute of Technology (VJIT) had celebrated the Alumni meet on 6th January 2024 at the institute campus. The Meet was a fun and fascinating trip down the memory lane that gave our alumni an opportunity to see old friends again and catch up with them. Around 500 Alumni have participated in the event and shared their experiences with the present students. These sessions held by the seniors and super seniors, coming with valued experiences, working in different industries have given the required awareness inputs to the present students on Industrial standards and needs. They further motivated them with guidance for their career building.

On this occasion VJIT Principal Dr. E. Sai baba Reddy, addressed the Alumni executive committee meeting. He discoursed on the various activities initiated by the Institute to achieve the industry standards and gathered valuable suggestions on recent trends required by the industries.

RESEARCH & DEVELOPMENT

RESEARCH PUBLICATIONS:

S.No	Name of the Author(s)	Title of the Paper	Name of the Journal	Month and Year of publication	ISSN/DOI
1.	P. Nageswara Rao S. Chaitanya K. Rajeev	Review on the Electric Spring Connected to the Renewable Energy System to Minimize Harmonics and Voltage Profile Enhancement	E3S Web of Conferences 472, 01007 (2024)	December 2023	https://doi.org /10.1051/e3scon f/202447201007
2.	P. Nageswara Rao	Utilizing Artificial Neural Network For the Regulation Of Electric Springs In Renewable Systems (AI &DS in EE)	E3S Web of Conferences 472, 01007 (2024)	December 2023	https://doi.org /10.1051/e3scon f/202447201005
3.	Mr. M. Vijaykumar	Improved Power Quality Transformer Less Single Stage Bridgeless Converter Based Charger For Light Electric Vehicles Journal (EV)	Journal of Engineering Sciences	April 2024	Vol 15 Issue 06,2024
4.	Mr. Hussain shaik	Deep Forest-Based Automatic Generation Control Strategy (PE in PS)	International Journal of Science, Engineering and	December 2023	ISSN (Online): 2348-4098 ISSN (Print): 2395- 4752
5.	Dr.K. Raghavaiah	Enhanced Battery Life with Supercapacitor Applied to Renewable Energy Based Electric Vehicles (RES)	Journal of New Materials for Electrochemical Systems	July 2023	https://doi.org /10.14447/jnme s.v26i3.a04

THE STATE OF THE S	6.	Dr.K. Raghavaiah	Reliability Assessment of Power System based on Load Flow Analysis of the IEEE 57 Bus used in Micro Grid Applications	Wseas Transactions on Power Systems	December 2023	DOI: 10.37394/232016 .2023.18.39	
	7.	Dr.K.Raghava iah	Design and Analysis of a Low Voltage Simulink Model (LVSM) of IEEE	Wseas Transactions on Power Systems	March 2024	DOI: 10.37394/232016 .2024.19.5	

PATENTS

S. No	Name of the Faculty	Торіс	Obtained / Filed with number and date	Status
1	Dr. C.N. Ravi Mr. B. Rajesh Mr. K. Satish Kumar Mr. T. Parameshwar Mr. P. Nageshwara Rao Mr. D. Srinivas Mr. Vikram Chandha	Smart Anti-Theft Mechanism For Electrical Power Distribution Networks Employing IoT Technology		Published
2	Dr. A. Srujana Mr. B. Sudhakar Reddy Mrs. V. Vijayalakshmi Mrs. K. Swapna Mrs. K Haritha Mr. Hussain Shaik Mrs. V. Vijayalakshmi Mr. Karnam Rajeev Mrs. S. Chaitanya	An Electric Vehicle Charging System	IPR INDIA 202441017097 29/03/2024	Published

BEST MAJOR PROJECTS

Roll No	Name of the Student	Title of Mini Project	Guide	
21915A0207	E.Ajitha			
21915A0208	G.Rahul	Design and Software Development of	Dr. A. Srujana	
21915A0209	G.Gananand Goud	AI Robot	DI. A. Siujalia	
21915A0201	A.Ganesh			
21915A0203	Bathula tharun kumar			
21915A0217	M Narender	Automatic Drinking Water dispensing	Mr. B. Sudhakar	
20911A0232	Manisha Dama	Robot for bulk lunch halls	Reddy	
20911A0250	Siddamsetty Nikhitha			
20911A0253	Tandra Leela Venkata Sivaram		D. C.N. D.	
20911A0258		Design and Development of H-Rotor		
20911A0259	Yavapuram Vaishnavi	Turbine	Dr. C. N. Ravi	
20911A0260	Chandaka vijay Kumar			
21915A0212	Snigdha Mohitha			
20911A0239	Myadam Rakesh Babu			
20911A0261	Kukutla Jalendernath	Dynamic Spintronix Innovative	Mr. D. Srinivas	
20911A0231	Malga Chandrashekar	Propeller	WII. D. SIIIIIvas	
20911A0255	B.Madhu			
20911A0203	A.Vinay Kumar Goud	DI C Brogram for Barbagua		
20911A0201	A.Sri Vignesh Goud	PLC Program for Barbeque Automation	Dr. A. Srujana	
20911A0202	A.Abhishnu	1 Internation		



Design and Development of H-Rotor Turbine



Automatic Drinking Water dispensing Robot for bulk lunch halls





Dynamic Spintronix Innovative Propeller

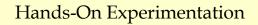
MOU's with Department of Electrical and Electronics Engineering

MOUs exist with the following core companies and training institutions. The facilities available with the industry are utilized by students

S. No	Name of the MoU	Outcome
1	Hyderabad Institute of Electrical Engineers (HIEE).	Internship, Training & Students Project
2	HIIT-Power Transformer manufacturing Internship, Training & Students Project	Internship, Training & Students Project
3	Balaji Electrical and Engineering works.	Internship, Training & Students Project
4	Sun seas tech	Consultancy, Students training, Collaborative Projects
5	Interleaved Multidisciplinary Research Centre	Internship, Training & Students Project
6	Abhijith Solar Energy Pvt Limite	Internship, Training & Students Project
7	Saitronix Electro Pvt Limited	Internship, Training & Students Project
8	Skyy Skill Academy	Internship, Training & Students Project
9	IPCS Global Solution Pvt. Ltd.,	Internship, Training & Students Project

Innovative Teaching Methods







Never Miss a Class

Never Miss a Class:

The teacher prepares a video with the course content which is discussed in the class and will share the same on Institute website or in social media platforms like YouTube or WhatsApp which is available for all the students to go through the class.

Hands On Experience:

Objective: Allow students to directly observe the relationship between voltage, current, and resistance.

Setup: Provide simple circuit kits with a power source (battery), resistors, a multimeter, and connecting wires.

Academic Toppers

S.No	Year/Sem	Roll.No	Name of the Student	CGPA
1	II/II	23915A0220	PUTTOZU ADITHYA	9.70
	,	22911A0234	R SANJANA	9.27
2 III/II	22915A0214	SAPA RAKESH KUMAR	8.61	
	21911A0218	V ABHAY KUMAR	8.59	
3 IV/II	21915A0203	BATHULA THARUN KUMAR	9.04	
	,	20911A0250	SIDDAMSETTY NIKHITHA	9.03

Placements

S.No	Full Name (As Per SSC)	Placed in	Company Placed	CTC
1	20911A0205	Pavani Sai	Axis Energy	4 LPA
2	20911A0210	Bhukya Venkanna	Schematic Engineering Industries Pvt.Ltd./ Sri Chaithanya Educational Group	2.4 LPA/ 4 LPA
3	20911A0212	Buyyani Prathyusha	Axis Energy	4 LPA
4	20911A0213	Chenikesi Puneeth	Wealus Technology solutions pvt.Ltd.	3.2 LPA
5	20911A0216	Dharamasoth Tharun	Wealus Technology solutions pvt.Ltd.	3.2 LPA
6	20911A0223	Gudelli Akhil Reddy	Wealus Technology solutions pvt.Ltd./ Aparna Property Management Services/ Tata Strive	3.2 LPA/ 2.16 LPA/ 2.4 LPA
7	20911A0224	Hanumandla Bharath Chandra	Sutherland/ Aparna Property Management Services/ Tata Strive	3 LPA/ 2.16 LPA/ 2.4 LPA
8	20911A0225	K Rajitha	Wealus Technology solutions pvt.Ltd.	3.2 LPA
9	20911A0226	Saichandu	Sutherland/ Tata Strive/ Wipro	3 LPA/ 2.4 LPA/ 1.9 LPA
10	20911A0228	Kudamala Venkata Vikranth	Wealus Technology solutions pvt.Ltd.	3.2 LPA
11	20911A0232	Manisha Dama	Sutherland/ Movate	3 LPA/ 2.8 LPA
12	20911A0234	Medi Surya Prakash Yadav	Luster Light Tech co.Ltd.	2.5 LPA

	13	, 20911A0235	Moreddy	Luster Light Tech co.Ltd.	2,5 LPA
			Madhav Reddy	G	
	14	20911A0240	N Gnana Jessvica	Amazon/ Tata Strive	3.2 LPA/ 2.4 LPA
•	15	20911A0243	Nunavath Ravi Kumar	Medha Servo	4 LPA
	16	20911A0244	Pinnapureddy Laxman Reddy	Medha Servo	5 LPA
	17	20911A0247	R Pramod Kumar	Schematic Engineering Industries Pvt.Ltd.	2.4 LPA
•	18	20911A0248	Sangem Raghuvamshi Reddy	Sutherland	3 LPA
	19	20911A0250	Siddamsetty Nikhitha	Schematic Engineering Industries Pvt.Ltd./ Tata Strive	2.4 LPA/ 2.4 LPA
•	20	20911A0251	Srusti Bala Harshini	CDW	4 LPA
	21	20911A0253	Tandra Leela Venkata Sivaram	CDW/ Tata Strive	4 LPA/ 2.4 LPA
•	22	20911A0254	Tekula Nishanth Rao	Listen Lights	3 LPA
	23	20911A0255	B. Madhu	Tata Consulting Engineers	2.4 LPA
	24	20911A0257	Udugula Sai Ram	CDW	4 LPA
•	25	20911A0258	Uppu Pramod Kumar	Luster Light Tech co.Ltd./ Chegg	2.5 LPA/ 3.6 LPA
	26	20911A0259	Yavapuram Vaishnavi	Luster Light Tech co.Ltd./ Tata Strive	2.5 LPA/ 2.4 LPA
	27	20911A0260	Ch. Vijay Kumar	CDW/ Tata Strive	4 LPA/ 2.4 LPA
	28	20911A0261	Kukutla Jalendernath	Medha Servo	4 LPA
	29	21915A0201	Ganesh	Cyient/	4.2 LPA/ 2.16

		Anaganti	Aparna Property Management	LPA/ 3.6 LA/
			Services/ Chegg/ Sutherland	3LPA
30	21915A0203	Bathula Tharun Kumar	Listen Lights/ Aparna Property Management Services/ Tata Strive/ Chegg	3 LPA/ 2.16 LPA/ 2.4 LPA/ 3.6 LPA
31	21915A0204	Chandooru Sudheer Kumar	Medha Servo/ Aparna Property Management Services / Chegg/ Sri Chaithanya Educational Group/ UniString	4 LPA/ 2.16 LPA/ 3.6 LPA/ 4 LPA/ 1.8 LPA
32	21915A0205	Chennaboina Saiteja	Medha Servo	4 LPA
33	21915A0207	Ettaveni Ajitha	Tata Consulting Engineers	4.5 LPA
34	21915A0208	Gannoju Rahul	Sutherland	3 LPA
35	21915A0211	G.Nandu Kumar Yadav	Listen Lights/ Axis Energy	3 LPA/ 4 LPA
36	21915A0212	Jyothula Snigdha Mohitha	Listen Lights	3 LPA
37	21915A0213	K Rakesh	Luster Light Tech co.Ltd.	2.5 LPA
38	21915A0214	Kammari Alekhya	Sutherland	3 LPA
39	21915A0215	Kodumunja Vignesh	Listen Lights	3 LPA
40	21915A0217	M Narender	Sutherland	3 LPA
41	21915A0218	Ramakrishna Macharla	Tata Consulting Engineers/ Aparna Property Management Services	4.5 LPA/ 2.16 LPA
42	21915A0219	Renatla Sandeep Goud	Schematic Engineering Industries Pvt.Ltd.	2.4 LPA
43	21915A0220	S Harshavardhan Reddy	Medha Servo	4 LPA
44	21915A0221	S R Mani Kanth	CDW	4 LPA
45	21915A0223	Telgamalla	Kenra/ Tata Strive	3.24 LPA/ 2.4
46	21915A0224	Thonta Mani Kumar	Kenra	3.24 LPA

	47	21915A0225	Udgula Srilaxmi	Schematic Engineering Industries	2.4 LPA	
(11/10)				Pvt.Ltd.		0/2
	48	21915A0228	Vakiti Ganesh	Kenra/ Tata Strive	3.24 LPA/ 2.4	
				,	LPA	
	49	21915A0229	Vasamsetti Sri	Kenra	3.24 LPA	
			Sandeep			
	50	21915A0230	Vuriti.Jahnavi	Kenra/ Tata Strive	3.24 LPA/ 2.4	
			, i i i i i i	,	LPA	

