



VIDYA JYOTHI INSTITUTE OF TECHNOLOGY



VIDHYULLATHA

ELECTRICAL AND ELECTRONICS ENGINEERING DEPARTMENT

NEWS LETTER

ISSUE YEAR: 2021-2022 VOL NO.10 ISSUE NO.01 PAGES: 14

Director's Desk



It gives me immense pleasure to pen a few words for the Vidyullatha, the VJIT EEE Newsletter. Since the inception of VJIT, we have consistently strived to provide quality education to students pursuing undergraduate and postgraduate courses. I am proud to say that our efforts have yielded commendable results, reflecting our commitment to excellence.

However, we recognize that there is always room for growth. As educators, we remain steadfast in our mission, continuously seeking ways to enhance our teaching methods and learning environment. Our resolve is stronger than ever to ensure that VJIT remains a beacon of quality education.

I take this opportunity to congratulate all the faculty members for their relentless efforts to improve their teaching techniques and skills in the pursuit of excellence. Their dedication and innovation are the cornerstones of our success. Together, let us continue to work towards shaping the future of our students and the field of electrical engineering.

Principal's Message



An institution plays a pivotal role in bridging the gap between an individual and a professional. Vidya Jyothi Institute of Technology (VJIT) is no exception to this. For the past twenty-two years, VJIT has stood tall as a platform where countless technical talents have nurtured their futures and achieved excellence.

Beyond academic achievements, we recognize that students excel further in life when equipped with essential life skills. These skills empower them to navigate challenges with confidence, both in their professional and personal endeavors.

As a testament to our growth, the *VJIT EEE Newsletter Vidyullatha* which began as a humble initiative and has reached yet another significant milestone. It continues to reflect the vibrancy and achievements of our department. I extend my heartfelt congratulations to the newsletter team and all the faculty members whose efforts make this endeavor a success. Together, let us strive for greater accomplishments and continue to illuminate the path for future generations.



Editor:

The Department of Electrical and Electronics Engineering (EEE) at VJIT was established in 1999 with an initial intake of 40 students in the undergraduate program. Over the years, the intake gradually increased to 120, reflecting the growing demand for quality education in this field. In 2011-12, the department introduced the postgraduate program in Power Electronics & Electrical Drives, followed by the Electrical Power Systems program in 2013. These additions have further strengthened our academic offerings, catering to the evolving needs of the industry. Our department is equipped with exceptional facilities, including a dedicated library, spacious and well-established laboratories, and a unique Model Room. The Model Room serves as the lifeline of the EEE Department, fostering research-oriented, project-based learning for all students. With state-of-the-art infrastructure and a team of well-qualified and experienced faculty, we are fully equipped to deliver high-quality education tailored to meet contemporary industry requirements.

It brings me immense happiness to witness the continuous growth and achievements of the department as we strive to provide an enriching academic environment for our students. To share that about 100 students of EEE department have registered in IEI student chapter.

Seminars, Workshops and Technical Symposia are conducted in the department regularly to keep the faculty and students updated with latest developments in various technologies. The students in the department are moulded into competent electrical engineering professionals, to face the challenges of the POWER sector. Thus the EEE Dept is developing enviously by leaps and bounds.

Editorial Board

Editor

Dr.A.Srujana,HOD,EEE

Editor in Chief

1.Dr.C.N.Ravi,Prof,EEE

2.Mr.B.Rajesh,Asst.Prof,EEE

Members

1.Mrs.V.Vijaya Lakshmi,Assoc.Prof,EEE

2.Mr.Hussain Shaik ,Asst.Prof,EEE

3.Mr.M.Vijay Kumar,Asst.Prof,EEE

Advisory Board

1.Mr.B.Sudhakar Reddy,Asst.Prof,EEE

2.Mr.T.Parameshwar,Assoc.Prof,EEE

3.Mr.J.Urmisha Reddy,Student,IV-EEE

4.Mr.P .Venkata Sandeep Reddy,Student,IV-EEE

5.Mr.Joshi Sai Vivekanand,Student,III-EEE

6.Ms.G. Meghana,III-EEE

Design Team

1.Mr.L.Raju,Asst.Prof,EEE

2.Mr.K.Likhith Sai Chandra,Student,IV-EEE

3.Mr.H. Sunil Chandra,Student,IV-EEE

4.Mr.G.Kalyan,Student,III-EEE

5.Mr.D.Hemanth Sagar,Student,III-EEE

6.Mr.M.Narender ,Student,II-EEE

7.Mr.H.Bharath Chandra,Student,II-EEE

Content Team

1.Mr.S.Sai Kumar,Student,IV-EEE

2.Mr.Ch.Sanjay,Student,IV-EEE

3.Mr.K.Maheshwar,Student,III-EEE

4.Mr.G.Rahul,Student,III-EEE

5.Mr.G.Akhil,Student,II-EEE

6.Ms.B.Prathyusha,Student,II-EEE

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 multi-disciplinary 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

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 my pleasure to present this edition of *Vidyullatha*, highlighting the remarkable progress of the EEE Department.

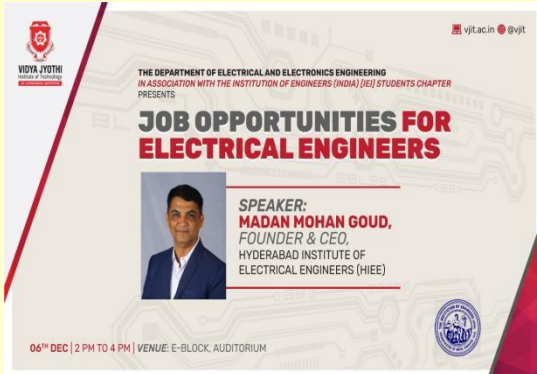
This semester, we successfully organized industrial visits, workshops, and technical events, ensuring that our students and faculty stay at the forefront of technological advancements. These initiatives are thoughtfully designed to prepare our students as skilled professionals, ready to excel in the ever-evolving power sector.

The department continues to achieve new milestones, setting higher standards of excellence with each step. I commend the newsletter team for their dedication in capturing and showcasing our journey so effectively.

Wishing everyone continued success as we move forward with determination and vision.

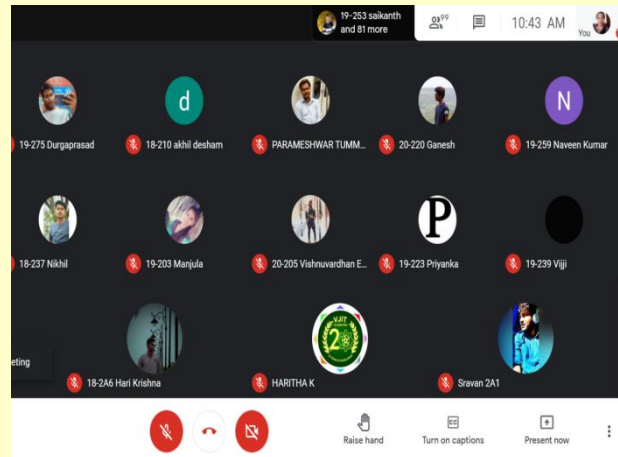
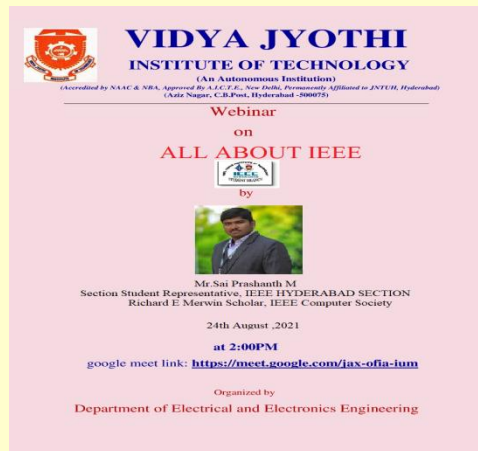
PHOTO GALLERY

GUEST LECTURE



A Technical talk on Job Opportunities to Electrical Engineers is organized for EEE Students on 6th Dec ,2021

WEBINAR



A Webinar on ALL about IEEE is organized on 24th August,2021.

Mr.Sai Prashanth ,Section Student Representative, IEEE HYDERABAD SECTION the guest speaker of the webinar started with his experiences as an IEEE member. Later he explained about the benefits of IEEE that includes What is IEEE from the student's point of view? Student life, along with its many positive features, also contains a certain amount of chaos. IEEE has created a set of benefits specifically targeted for students in order to fill the void and increase the positive experience for students on their way to becoming an expert in their field.The participants of this webinar were all EEE students.

ENERGY CONSERVATION DAY



Energy Conservation Day is organized on December 14th, 2021. Students across various departments participated in this event for poster presentation. This event is conducted to raise awareness about the importance of energy efficiency and the need to conserve energy for sustainable development. Hosting an event to mark this occasion can inspire participants and promote actionable measures for energy conservation. Students participated in the event with enthusiasm and few were awarded for the best poster presentation by the chief guest Ms. Sri Rekha Mavulati, Counselor from IGBC of CII.

ACHIEVEMENTS

Student Achievements:

- A team Anirudh Soni, K S Keshav Kumar of IV year got short listed for Smart India Hackathon 2022 grand finale at National level.
- Sai Vivekanand Joshi of II year got 2nd place in conducted on 31st august, 2021 at ETS, TOEFL Essentials.
- Anirudh Soni, K Keshava Rao, Khwaja Sohail Ahmed of III year got 5th Place in Hackathon Santri 2021 for EDU-AR app at International level.
- P. Naveen Kumar of III year got 1st prize in 13th Indian open inter engineering collegiate sports fest conducted at VNRVJIET on June 2nd 2022 at National level.

SMART INDIA HACKATHON 2022		PROBLEM STATEMENT DETAILS	
Description	"School children build, maintain and operate the national school water quality system leveraging the power of DIKSHA, Telemetry and Tinkering Labs. Use low cost IOT devices to implement water quality testing system at school, use NDEAR DIKSHA telemetry specifications to routinely monitor water quality, develop national dashboard leveraging NDEAR data analytics and dashboarding capabilities including CQube capabilities of DIKSHA. Solution could be architected to extend to other sensors that could measure various parameters of interest. Solution should be easy to build, maintain and upgrade!"		
Organization	National Digital Education Architecture (NDEAR), Department of School Education & Literacy (DSEIL)		
Category	Software		
Domain Bucket	Smart Automation		
Youtube Link			
Dataset Link	NA		



A team Anirudh Soni, K S Keshav Kumar of IV year got short listed for Smart India Hackathon ,2022

English Olympiad (TOFEL)



1st prize in 13th Indian open inter engineering collegiate sports fest conducted at VNRVJIET

Hackathon Santri 2021 for EDU-AR app at International level.

Faculty Achievements:

- Dr.A. Srujana, Professor & HoD, Mr.B.Sudhakar Reddy, Mr.B.Rajesh, Mr. M.Vijaykumar, Department of EEE granted the International patent on IFAC- Driver Less Vehicle Autonomous Control.
- Dr. C. N. Ravi is awarded as the Best Researcher by ESN Publications
- Mr. K. Satish Kumar is awarded as Best Teacher by ESN Publications.

RESEARCH & DEVELOPMENT

RESEARCH PUBLICATIONS:

S. No	Names of the Author	Title of the Paper (Domain)	Journal	Year & Month of Publication	Vol. No., Issue No. and pg. nos.	ISSN No /ISBN No/Digital Object Identifier (DOI)
1.	Dr. A. Srujana	Integrated Renewable Energy Sources for the minimization of Emission and Economic Operation of Power System (RES)	International Journal of Aquatic Science	2021& June	Vol 12, Issue 03, 2021	http://www.journal-aquaticscience.com/article_134358.html
2.	Dr. A. Srujana	Maximum power point tracking optimization and harmonics distributions control on PV systems (RES)	IT in Industry	Aug-21	Vol 9, No 3, 876-884	maximum power point tracking optimization and harmonics distributions control on pv systems information technology in industry (it-in-industry.org)
3.	Mrs.V. Vijaya Lakshmi	Hybrid distributed power distribution system with an integrated three port converter for photovoltaic cell/Battery (RES)	IT in Industry	Aug-21	Vol 9, No 3, 891-900	hybrid distributed power distribution system with an integrated three port converter for photovoltaic cell /battery information technology in industry (it-in-industry.org)

4.	Mr.M.Vijay Kumar	Power Quality Improvement For Wind Large Scale Integration With Multi Frequency Oscillations With Measured (PE in PS)	IT in Industry	Aug-21	Vol 9, No 3, 901-909	tps://www.it-in-industry.org/index.php/itii/article/view/752
5.	Mr. T. Parameshwar	Implementation of the electrical spring for enhancing the power quality in PV based DC grid (RES)	IT in Industry	Aug-21	Vol 9, No 3, 885-890	implementation of the electrical spring for enhancing the power quality in pv based dc grid information technology in industry (it-in-industry.org)
6.	Dr.A.Srujana,	Solving constrained economic electrical energy generation and CO2 emission dispatch using hybrid algorithm (PE in PS)	Environmental Technology & Innovation	29-Sep-21		doi: https://doi.org/10.1016/j.eti.2021.101999
7.	K. Swapna	Survival Study on Bidding Strategy for Microgrid Interfaced Distributed Renewable Energy Sources (RES)	Institute of Electrical and Electronics Engineers (IEEE) - ASIAN CON, PUNE	Aug-21	978-1-7281-8403-6	https://doi.org/10.1109/asiancon51346.2021.9544891
8.	Dr.A.Srujana , A. Srilatha, Mr. S. Suresh	Electric Vehicle Battery Modelling and Simulation Using MATLAB-Simulink (EV)	Turkish Journal of Computer and Mathematics Education	April 2021 SCOPUS	4604-4609	https://doi.org/10.17762/turcomat.v12i3.1853
9.	Abirami, P., Ravi, C.N	Load flow analysis of 10 bus loop distribution	International Journal of	2021 SCOPUS	12(2), pp. 1006–1014	http://doi.org/10.11591/ijpeds.v12.i2.pp1006-1014

		network excited by a generator simulated using open modelica editor (PE in PS)	Power Electronics and Drive Systems			
10.	K.Haritha, L.Raju	Converging Offshore wind energy difficulties (RES)	International Journal of Aquatic Science	July & 2021	ISSN 2008-8019, Vol 12.Issue 3	http://www.journal-aquaticscience.com/article_134068_8c81e3024aeef9cbadf7492ecccl299d.pdf
11.	Mrs. S. Chaitanya	Renewable energy optimization with implementation of multiple objective optimization algorithm based on load scheduling (RES)	IT in Industry	Aug-21	Vol 9, No 3, 863-875	renewable energy optimization with implementation of multiple objective optimization algorithm based on load scheduling information technology in industry (it-in-industry.org)
12.	Dr. A. Srujana	DFIG fault detection and control strategies for optimal generation of large renewable power plants (RES)	IT in Industry	Aug-21	Vol 9, No 3, 848-862	dfig fault detection and control strategies for optimal operation of large renewable power plants information technology in industry (it-in-industry.org)
13.	S.Chaitanya, S.Suresh	Power Factor Correction Method Using PFC BOOST Converter For Non-Linear Loads (PE in PS)	International Journal Of Creative Research Thoughts – IJCRT	June 2021 UGC	Volume 9, Issue 6 J	https://ijcrt.org/papers/ijcrt2106459.pdf
14.	A. Mohandas	A Diode Clamped Potential Balancing Method For Z-Source (PE in PS)	International Journal of Research Publication	Jul-21	Vol (2) Issue (7)	https://www.ijrpr.com/uploads/v2issue7/ijrpr667.pdf

			ion and Review s			
15.	Dr.K.Raghavaiah	Design and Comparative Analysis of Controllers Implemented to Hybrid Energy Storage System Based Solar-powered Electric Vehicle (RES)	IETE Journal of Research	June 2021.	Page no: 1-23	DOI: 10.1080/03772063.2021.1941328

SEED MONEY PROJECTS APPLIED / GRANTED

Title of the Project	Funding Agency	Reference No.	Details of PI	Amount in Rs.
Multilevel Inverter for Induction Motor Drive	Vidya Jyothi Institute of Technology	--	Mr. A.Mohan Das, Assistant Professor, Dept. of EEE, VJIT	1,82,000

MOUs 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	KGMECH Electro-Mechanical Pvt. Ltd	Internship, Training & Students Project
2	Hyderabad Instrument Transformers Pvt. Ltd.	Internship, Training & Students Project
3	PROFUSE Energy & Infrastructure (p) LTD.	Internship, Training & Students Project
4	SAPIENT systems.	Internship, Training & Students Project
5	Hyderabad Institute of Electrical Engineers (HIEE)	Internship, Training & Students Project
6	METRONIX.	Internship, Training & Students Project
7	ECI Engineering and Construction.	Internship, Training & Students Project
8	Balaji Electrical and Engineering works.	Internship, Training & Students Project
9	VEGA Solar Energy Private Ltd	Internship, Training & Students Project
10	AVGHNI Renewable Energy Indian Pvt. Ltd.	Internship, Training & Students Project
11	Vasavi Electricals.	Internship, Training & Students Project
12	CYME Automation Systems Pvt.Ltd	Internship, Training & Students Project
13	Link Buffer Studios	Internship, Training & Students Project

Academic Toppers

S.No	Year/Sem	Roll.No	Name of the Student	CGPA
1	II/I	20911A0250	SIDDAMSETTY NIKHITHA	9.45
		21915A0203	BATHULA THARUN KUMAR	9.20
2	III/I	20915A0204	D HEMANTH SAGAR	9.23
		19911A0228	GOVINDREDDY ASRITHA	9.05
3	IV/I	19915A0201	A SAIKISHORE REDDY	9.24
		19915A0212	M ASHRITA	9.-4

Placements




VIDYA JYOTHI INSTITUTE OF TECHNOLOGY
 DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
CONGRATULATIONS
KAMEPALLI LIKHITH SAI CHANDRA

18911A0270
 For getting offered the Highest Package
 of
7.5 LPA
 By





VIDYA JYOTHI INSTITUTE OF TECHNOLOGY
 DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
CONGRATULATIONS
 All the students placed in


ROLL.NO	NAME OF THE STUDENT	PACKAGE IN Rs. LPA
18911A0202	BANDI ADITYA	4
18911A0240	PARVATANENI JAYA SINDHU SAI	4
18911A0242	REDDY SAI SUSHMA TANGUTURI	4
18911A0250	THOTA NIKHITHA	4
18911A0265	GOUNDLA SRILEKHA	4
18911A0268	URMISHA REDDY JANAK	4
18911A0270	LIKHITH SAI CHANDRA KAMEPALLI	7.5
18911A0287	PASULADI MANISHA	4
18911A02A0	SHUBHAM MAROO	4
19915A0212	ASHRITA MANGISETTY	4
19915A0221	SANJAY POLAJI	4



VIDYA JYOTHI INSTITUTE OF TECHNOLOGY
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CONGRATULATIONS

All the students placed in



ROLL NO	NAME OF THE STUDENT	Package in Rs. LPA
18911A0205	CHAKRAVADHANULA NIRISH DHAVEJI	4
18911A0208	DANGETI TARUN	4
18911A0218	K S KESHIYA RAO	4.5 GenC Elevate
18911A0221	KHWAJA SOHAIL AHMED	4
18911A0223	KONDOJU PRASANNA	4
18911A0224	MABBU SAIMANTHARUN	4
18911A0231	MUSHANOLLA SHIVANI	4
18911A0247	SUBBURU SAI KUMAR	4
18911A0248	TAMMALI AKHIL KUMAR	4
18911A0268	JANAK URMISHA REDDY	4
18911A0292	POTHULA SAI PRANAVI	4
18911A0298	SAMBHITHA SAMPATH	4
18911A02A8	SHUBHAM MAROO	4.5 GenC Elevate
19915A0202	ARVA ARUN KUMAR	4
19915A0204	BADEPALLY SAI GANESH	4
19915A0211	LAKUM KESHINI	4
19915A0214	MANGALI SAI KUMAR	4
19915A0216	MERUGU PAVAN KUMAR	4
19915A0218	NATHI RAM KIRAN	4
19915A0221	POLAJI SANJAY	4
19915A0223	PUTTA PRIYANKA	4



VIDYA JYOTHI INSTITUTE OF TECHNOLOGY
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Congratulations!

All the students placed in



With a Package of
3.36 LPA

ROLL NO	NAME OF THE STUDENT
18911A0220	KARETI PAVANKUMAR
18911A0221	KHWAJA SOHAIL AHMED
18911A0252	VISHNUMOLAKALA DEVA HARSHA
18911A0257	CHELAKALAPELLY SANJAY
18911A0272	KOPPULA PRASHANTH REDDY
18911A0277	MANNE SHIVAKUMAR