



# VIDYA JYOTHI INSTITUTE OF TECHNOLOGY



## VIDHYULLATHA

### ELECTRICAL AND ELECTRONICS ENGINEERING DEPARTMENT

### NEWS LETTER

ISSUE YEAR: 2022~2023 VOL NO.12 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-three 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.A.Neeradh,Student,IV-EEE

4.Mr.G.Vishnu Vardhan,Student,IV-EEE

5.Mr.Ch.Sai Teja,Student,III-EEE

6.Ms.Snigdha Mohitha,III-EEE

### Design Team

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

2.Ms.K.Akhila,Student,IV-EEE

3.Mr.S.Dinesh,Student,IV-EEE

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

5.Mr.H.Bharath Chandra,Student,III-EEE

6.Mr.V.Abhinav,Student,II-EEE

7.Mr.M.Praveen Kumar,Student,II-EEE

### Content Team

1.Mr.J.Pavan,Student,IV-EEE

2.Mr.G.Kalyan,Student,IV-EEE

3.Mr.R. Pramod Kumar,Student,III-EEE

4.Mr.S.Raghuvamshi Reddy,Student,III-EEE

5.Mr.B.Nithin,Student,II-EEE

6.Ms.Ch.Srinitha,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.

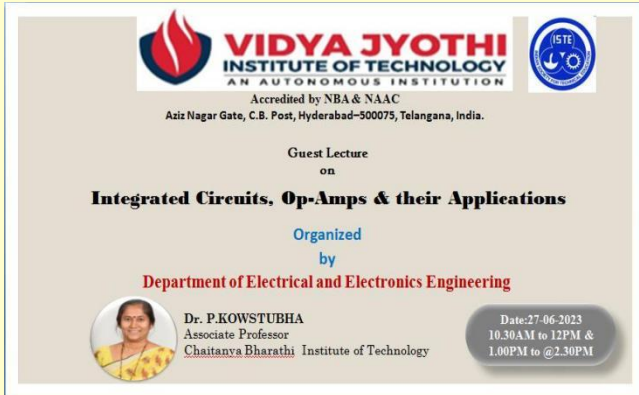
The department continues to achieve new milestones, setting higher standards of excellence with each step. I commend the newsletter team for their dedication in capturing and showcasing our journey so effectively.

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



# PHOTO GALLERY

## GUEST LECTURE



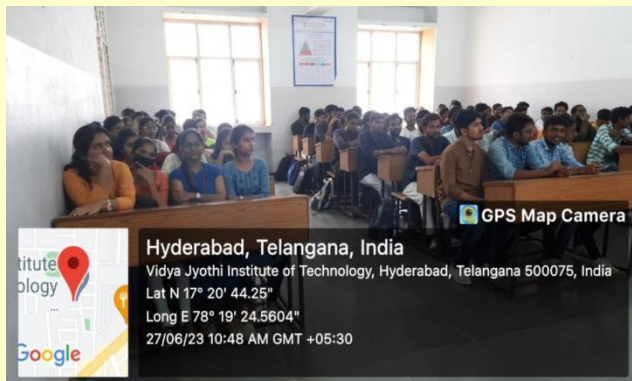
**VIDYA JYOTHI**  
INSTITUTE OF TECHNOLOGY  
AN AUTONOMOUS INSTITUTION  
Accredited by NBA & NAAC  
Aziz Nagar Gate, C.B. Post, Hyderabad-500075, Telangana, India.

Guest Lecture  
on  
**Integrated Circuits, Op-Amps & their Applications**

Organized  
by  
**Department of Electrical and Electronics Engineering**

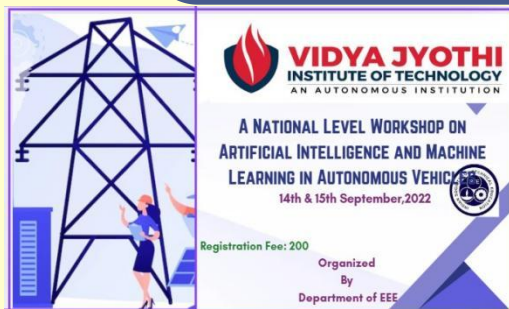
**Dr. P.KOWSTUBHA**  
Associate Professor  
Chaitanya Bharathi Institute of Technology

Date: 27-06-2023  
10.30AM to 12PM &  
1.00PM to @2.30PM



A Guest Lecture on Integrated Circuits, Op Amps & their Applications is organized for III EEE Students on 27<sup>th</sup> June, 2023

## WORKSHOPS



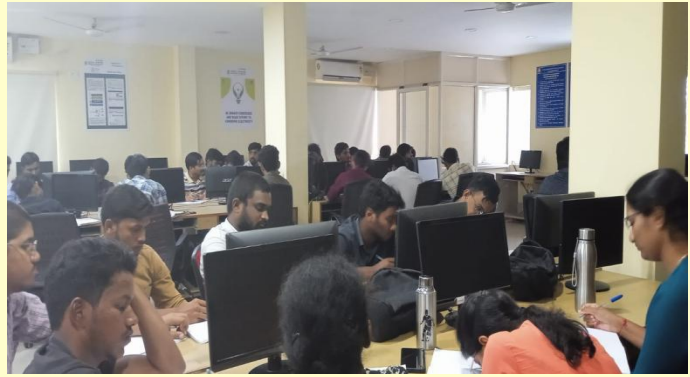
**VIDYA JYOTHI**  
INSTITUTE OF TECHNOLOGY  
AN AUTONOMOUS INSTITUTION

A NATIONAL LEVEL WORKSHOP ON  
ARTIFICIAL INTELLIGENCE AND MACHINE  
LEARNING IN AUTONOMOUS VEHICLES  
14th & 15th September, 2022

Registration Fee: 200  
Organized  
By  
Department of EEE



A National level Workshop on Artificial Intelligence and Machine Learning in Autonomous Vehicles was organized for IV EEE Students along with students of various colleges from 21<sup>st</sup> -22<sup>nd</sup> September, 2022



**A Workshop on Renewable Energy Systems was organized for III EEE Students from 10<sup>th</sup> -11<sup>th</sup> November ,2022**



**A National level Workshop on Internet of Things was organized to II EEE Students along with students of various colleges from 3<sup>rd</sup> to 4<sup>th</sup> October,2022.**

## INDUSTRIAL VISITS



**An Industrial Visit to BHEL for IV EEE students is organized on 12<sup>th</sup> & 13<sup>th</sup> September,2022.**



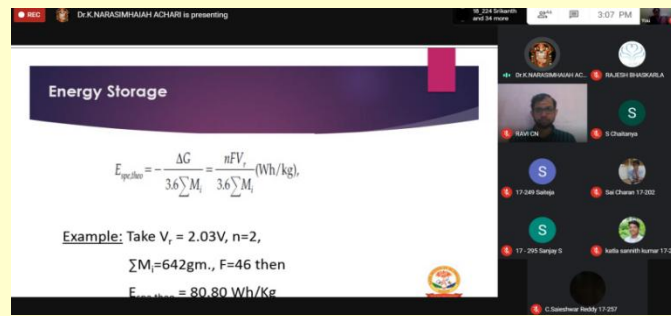
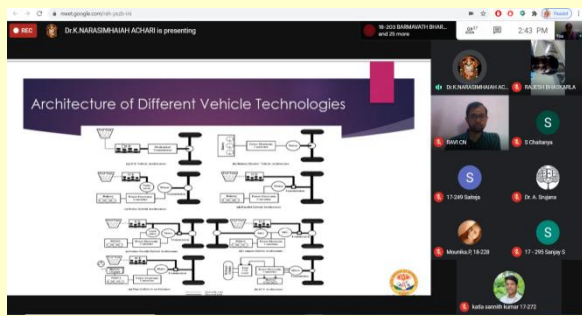
## Contrive 2K23



**"Contrive 2K23, a grand project expo, was organized on the 10<sup>th</sup> and 11<sup>th</sup> of January 2023, showcasing innovation and creativity across various disciplines. Students from all departments participated with immense enthusiasm and keen interest, presenting projects spanning diverse domains. The event served as a platform for young minds to demonstrate their technical expertise, teamwork, and problem-solving skills. It not only highlighted the interdisciplinary spirit of the institution but also inspired a collaborative exchange of ideas and knowledge among students, faculty, and visitors."**

## INTERNATIONAL FDP

S.No	Title of the FDP	Date of the Event	No. of participants
1	One Week online International FDP on applications of power Electronics in Renewable Energy Sources and Electric Vehicles.	12-09-2022 to 16-09-2022	150



**A One Week online International FDP on applications of power Electronics in Renewable Energy Sources and Electric Vehicles was organized from 12<sup>th</sup> -16<sup>th</sup> September,2022.**

**GRADUATION DAY**



**Graduation Day for 2018-2022 Batch is organized on 3<sup>rd</sup> September,2022."Graduation day was a momentous occasion filled with joy and pride as students gathered to celebrate their academic achievements. Dressed in traditional graduation robes and caps, they participated in the ceremony with enthusiasm and excitement. The atmosphere was vibrant, with students receiving warm wishes and heartfelt congratulations from faculty, family, and friends. It was a day to honor their hard work and dedication, marking the culmination of their educational journey and the beginning of a promising future."**



## FRESHER'S DAY



Fresher's day is organized by EEE Department for first year students along with Second year students during December,2022."Freshers' Day was celebrated with great enthusiasm and joy as senior students warmly welcomed their juniors to the campus. The event was filled with excitement and camaraderie, with seniors making special efforts to ensure the newcomers felt at home. The celebrations included a variety of cultural performances, showcasing the vibrant talents of the students. Everyone enjoyed a delicious lunch, which added a delightful culinary touch to the occasion. The day was marked by laughter, bonding, and the beginning of many new friendships, leaving everyone with cherished memories to treasure."

## 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.

## Student Achievements:

- Sanjeev Kumar ,V.Durga Prasad,M.Harshavardhan,M.Pavan of III year EEE selected among Top 10 teams in Final Pitch Day at Youth for Social Impact on Oct-November 2022.
- Anirudh Soni,K S Keshav Kumar and Team of IV year got 1st place in Smart India Hackathon 2022 held on 26th August,2022.
- Sindhu of III year secured 2nd place in Paper presentation (Topic:Electric power system for satellite) at Constellar-A Technical Symposium conducted at Anurag University on 15th August,2022.
- Sanjeev Kumar,V.Durga Prasad of III EEE year was awarded Best presentation in Ideathon 2k22, A National level design contest on innovations in defence electronics at Kalam Institute of Youth Excellence Foundation held on 15th August,2022.
- Sanjeev Kumar,V.Durga Prasad,M.Harshavardhan,M.Pavan of III year EEE secured 1st place in JHUB Hackathon league at Jawaharlal Nehru Technological Institute,Hyderabad held from 3rd to 4th June 2022.
- A team of IV-year EEE selected among Top 10 teams in Final Pitch Day at Youth for Social Impact conducted from Oct-Nov 2022.



A team of VJIT got 1st place for Smart India Hackathon 2022



Final Pitch Day at Youth for Social Impact conducted from Oct-Nov 2022.



A team of EEE IV year was awarded Best presentation in Ideathon 2k22 National level design contest on innovations in defence electronics conducted at Kalam Institute of Youth Excellence foundation



A team of IV year EEE selected secured 1st place in JHUB Hackathon league with an idea Agricultural Land Surveying Rover

## Faculty Achievements:

- **Mrs. A. Srilatha**, Assistant Professor was awarded Doctoral degree by KL University, Vijayawada, AP titled “**Design of off-board Lithium-ion battery charger for Electric Vehicles**”
- **Mr. D. Srinivas**, Associate Professor was presented Best Teacher award by VJIT.
- **Mrs. K. Swapna**, Assistant Professor was presented Best Teacher award by VJIT.
- **Mr. B. Rajesh** awarded as silver medal for successfully completion of the NPTEL course Python for Data Science and placed top 5% among all the participants.
- **Dr. C. N. Ravi** awarded as silver medal for successfully completion of the NPTEL course Problem Solving Through Programming in C.

## RESEARCH & DEVELOPMENT

### RESEARCH PUBLICATIONS:

S.No	Name of the Author(s)	Title of the Paper (Domain)	Name of the Journal	Month and Year of publication	ISSN/DOI
1.	Dr. A. Srujana	A Maximum Power Control Strategy For Grid Integrated Solar PV System During Abnormal Conditions. (RES)	High Technology Letters,	Volume 28, Issue 12, 2022	Volume 28, Issue 12, Pages No: 134-150,
2.	Dr. C. N. Ravi	Optimization of passive filter components through active filtering of current ripple reduction in an inverter (PE in PS)	International Journal of Power Electronics and Drive Systems	2022&March	ISSN: 2088-8694, pp298-308



3.		A Generalized Non-Carrier Modulation Technique for an Asymmetric Source Configuration of SinglePhase CHB-MLI Topology Using PLECS Tool (PE in PS)	IEEE 2nd International Conference on Sustainable Energy and Future Electric Transportation	August 2022	DOI: 10.1109/SeFeT55524.2022.990907
4.	A Mohandas				

### PROJECTS APPLIED/GRANTED:

Title of the Project	Funding Agency	Reference No.	Details of PI	Amount in Rs.
Development of Optimal Power Flow Solution for VJIT Campus	DST SERB, Scheme Name: CRG	Reference No.: 182022005700, Dt: 10-Apr-2022	Dr. C. N. Ravi, Professor, Dept. of EEE, VJIT	23,45,000

### 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	Hyderabad Institute of Electrical Engineers	Internship, Training & Students Project
2	HIIT-Power Transformer manufacturing	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

## Training



**Core training given to IV year students which helped them to achieve placements**

## Innovative teaching Methods



**Activity Based Learning**



**Learning by Doing**

## Academic Toppers


S.No	Year/Sem	Roll.No	Name of the Student	CGPA
1	II/II	22915A0214	SAPA RAKESH KUMAR	8.9
		21911A0209	METIKOTI MANIKANTA MANOJ	8.85
2	III/II	20911A0250	SIDDAMSETTY NIKHITHA	8.99
		21915A0203	BATHULA THARUN KUMAR	8.94
3	IV/II	20915A0224	VURLUGONDA VENU	9.03
		20915A0204	D HEMANTH SAGAR	8.99

## Placements

**VIDYA JYOTHI INSTITUTE OF TECHNOLOGY**  
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

**Congratulations**  
To the selected students

S.NO	ROLL NO	NAME	COMPANY SELECTED FOR	PACKAGE IN LPA
1	19911A0230	GUGULOTH RAHUL	Chegg Inc.	360000
2	19911A0232	PAVAN JAYAVATHI	Chegg Inc.	360000
3	19911A0237	KATNA SRISAILAM	Chegg Inc.	360000
4	19911A0245	M AKSHAY BHARADHWAJ	Chegg Inc.	360000
5	19911A0261	PANJALA AKHIL GOUD	Chegg Inc.	360000
6	19911A0269	BHINESH SASAPU	Chegg Inc.	360000
7	20915A0201	D HEMANTH SAGAR	Chegg Inc.	360000
1	19911A0266	LAUREN	Gebbs	350000
2	19911A0267	S AAKIEZ RABBANI	Gebbs	350000
3	19911A0270	POOJA SHALINI	Gebbs	350000
1	19911A0274	VADLA AKHIL CHARY	Cadvis	330636
2	20915A0221	SAMALA MANISH	Cadvis	330636



**VIDYA JYOTHI INSTITUTE OF TECHNOLOGY**  
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

**CONGRATULATIONS**

**ALL THE STUDENTS PLACED IN**

**virtusa**

**With a package of**  
**5 LPA**

S.NO	ROLL NO	NAME OF THE STUDENT
1	19911A0229	GUGULOTH KALYAN
2	19911A0240	SANJEEV KUMAR KOTTAPETA
3	19911A0255	BATTATREYA CHARY NAGOJU
4	20915A0201	RAMNESH BOINI
5	20915A0221	SAMALA MANISH
6	20915A0224	VURLUGONDA VENU
7	19911A0229	GUGULOTH KALYAN

**VIDYA JYOTHI INSTITUTE OF TECHNOLOGY**  
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

**Congratulations**

On  
Getting selected for

**Tata Consultancy Services**

**With a package of**  
**3.36 LPA**

S.NO	ROLL NO	NAME
1	20915A0223	VUPPULA NIKHIL RAJ
2	19911A0258	PAPANI VISHNU



**VIDYA JYOTHI INSTITUTE OF TECHNOLOGY**  
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

**Congratulations**

On Getting selected for

**IntelliPaat**

**With a package of**  
**7.25 LPA**

S.NO	ROLL NO	NAME
1	19911A0248	MARRI PAVAN
2	20915A0207	GUINDALA MANKANTAGOUR

