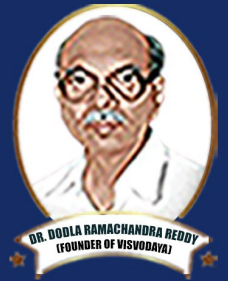




# PBR VISVODAYA INSTITUTE OF TECHNOLOGY AND SCIENCE

KAVALI, NELLORE (Dist.)



DR. DOOLA RAMACHANDRA REDDY  
(FOUNDER OF VISVODAYA)

## ECLECTIC Newsletter

VOLUME 06

JUL - DEC 2021

### DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

## Editorial Board Members

#### Editor-in-Chief

Dr.V Madhusudhan Reddy  
Professor Head of Dept., EEE

#### Faculty Editors

Mr.Ch.Srinivasulu Reddy, Assoc. Professor  
Mr.A.BhakthaVastala, Assoc. Professor

#### Student Editors

M. SIVA PRASAD-18731A0218  
P. POOJITHA CHOWDARY-18731A0228



# Department of Electrical & Electronics Engineering

# ECLECTIC

NEWSLETTER

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## EDITORIAL BOARD

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## INSTITUTE: VISION & MISSION

### Vision of the Institute:

To be a premier center of learning in Engineering and Management education that evolves the youth into dynamic professionals with a social commitment

### Mission of the Institute:

M1: To provide quality teaching- learning practices in engineering and management education by imparting core instruction and state-of-the-art infrastructure.

M2: To engage the faculty and students in acquiring competency in emerging technologies and research activities through Industry Institute Interaction.

M3: To foster social commitment in learners by incorporating leadership skills and ethical values through value-based education

EEE  
PBRVITS

DEPARTMENT OF ELECTRICAL &  
ELECTRONICS ENGINEERING

# DEPARTMENT PROFILE

The Department of Electrical and Electronics Engineering was established in 1998 with the approval of the All-India Council for Technical Education (AICTE). The Department of Electrical and Electronics Engineering (EEE) is one of the oldest department in the institution, spanning 25 years of existence, and offers the undergraduate program B. Tech-EEE (and one post-graduate program, Power Electronics). The department has qualified and experienced faculty and excellent infrastructural facilities. It is well equipped with laboratories, audio-visual facilities, and software tools such as Multisim, MATLAB, and Pspice.

We also take up the social responsibility of inculcating awareness about energy conservation by promoting programmes about the same. Collaboration with industries for timely amendments of curriculum and laboratories is another credential of the department. The long-term goal of the department is to develop a centre for research and development activities in the thrust areas of solar and wind energy. The main objective of the department is to provide a better solution for industrial problems and to carry out academic and sponsored research projects.

The department is committed to providing students with exposure to state-of-the-art technologies by signing a Memorandum of Understanding (MoU) with reputed companies. The students exhibit their co-curricular and extra-curricular skills through the activities of the EEE student association and other student exhibition platforms. The Department of Electrical Engineering is committed to excelling in Electrical and Electronics Engineering through education and research with well-qualified and experienced faculty and technical staff members.

## DEPARTMENT: VISION & MISSION

### **Vision:**

“To be recognized for producing meritorious electrical engineers with research proficiency and Social commitment”.

### **Mission:**

M1: Impart quality education with practice-based learning in producing electrical engineers with ethical values.

M2: Encourage the faculty and students to acquire mastery in cutting edge technologies.

M3: Implement research activities with social commitment.

## PROGRAM EDUCATIONAL OBJECTIVES

**PEO-I :** Acquire a profound knowledge for a successful career in electrical engineering and allied fields.

**PEO-II :** Pursue higher education and involve in research activities of electrical and electronics engineering.

**PEO-III:** Exhibit intellectual skills ethically and pursue life-long learning with social Commitment.



## PROGRAM OUTCOMES (POs)

1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.
6. The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11. Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

# PROGRAM SPECIFIC OUTCOMES (PSOs)

PSO-1 : Analyze industrial electrical challenges by applying knowledge fundamental electrical circuits, electronics and drives.

PSO-2 : Apply standard practices in electrical power and control systems with safety and societal considerations.

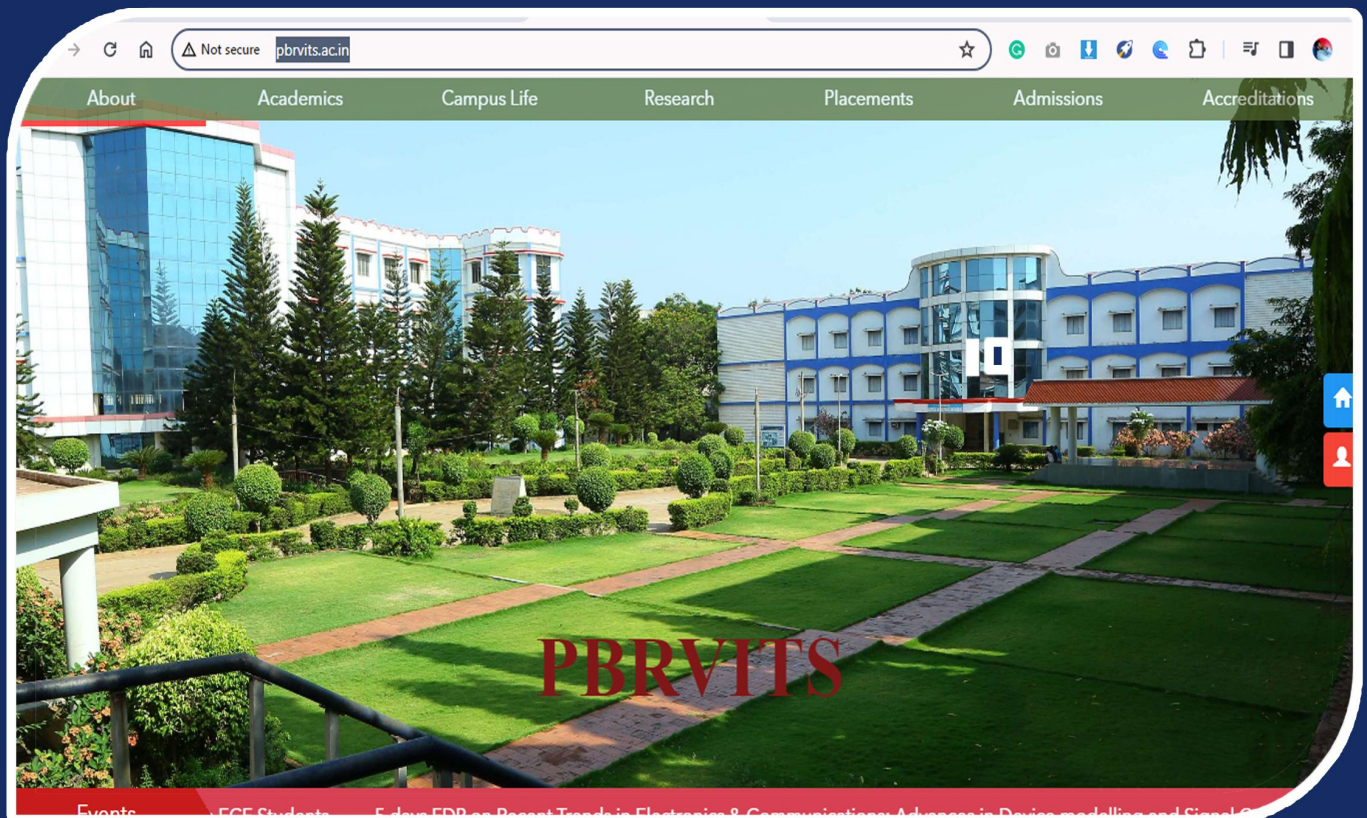
## P.B.R. VISVODAYA INSTITUTE OF TECHNOLOGY & SCIENCE



# EEE

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

College Website: [www.pbrvits.ac.in](http://www.pbrvits.ac.in)



## PROFESSOR DESK



Welcome to the Department of Electrical and Electronics Engineering, PBR VITS, Kavali, Andhra Pradesh. As a well-known fact, we cannot imagine the world without electricity. The Department of Electrical and Electronics Engineering is a center of pre-eminence where we nurture young talents by imparting technical training to them so that they can take up the challenges of real world. The Department of Electrical and Electronics Engineering was established in the year 1998 with an objective to develop professionals through quality education with an intake of 60 students.

The B. Tech and M. Tech programs are designed to achieve a balance between depth of knowledge acquired through specialization and breadth of knowledge gained through exploration. The courses offered by the department provide a comprehensive foundation in the core topics of EEE coupled with an area of specialization relevant to emerging engineering challenges.

The faculty in the department is a rich blend of personnel with industrial and professional experience. The dedicated staff members have sound knowledge in emerging areas like power systems, power electronics, and control engineering, etc. The breadth and depth of the research interests of the academic staff ensures a high standard of lecture courses and provides excellent opportunities for challenging and stimulating final year projects. All faculties supplement their delivery using videos, animations overhead projectors. The faculty keeps up with the latest technologies by publishing in reputed journals and presenting at various national and international conferences.

The department is active in organizing the various workshops and seminars for the growth and development of faculty and students' research knowledge further. Our department students are also highly encouraged to implement their innovative research ideas with the help of the expert faculty members and the available standard lab facilities in the department.

“Education can be a powerful weapon to change the world”

**Dr.V.Madhusudhan Reddy,  
Professor & HOD, EEE.**

## FACULTY DETAILS

S.No.	Name	Designation	Qualification
1	Dr V MADHU SUDANAREDDY	Professor	ME/M. Tech and PhD
2	Dr C. RAJASELVAM	Professor	ME/M. Tech and PhD
3	CH SRINIVASULU REDDY	Assistant Professor	M.E/M.Tech
4	A BHAKTHAVACHALA	Assistant Professor	M.E/M.Tech
5	M SREENU	Assistant Professor	M.E/M.Tech
6	Y DAVIDU	Assistant Professor	M.E/M.Tech
7	T HARI BABU	Assistant Professor	M.E/M.Tech
8	P RAJYALAKSHMI	Assistant Professor	M.E/M.Tech
9	V MASTHANIAH	Assistant Professor	M.E/M.Tech
10	S MUNIRAJA	Assistant Professor	M.E/M.Tech
11	G VENGALARAO	Assistant Professor	M.E/M.Tech
12	G SUMAN	Assistant Professor	M.E/M.Tech
13	M GIRIBABU	Assistant Professor	M.E/M.Tech
14	CH SWAPNA	Assistant Professor	M.E/M.Tech
15	G HARIBABU	Assistant Professor	M.E/M.Tech
16	Y SIVA PRASAD	Assistant Professor	M.E/M.Tech
17	DASARI VENKATA DEEPIKA	Assistant Professor	M.E/M.Tech
18	P ANIL KUMAR REDDY	Assistant Professor	M.E/M.Tech
19	B MADHAVA	Assistant Professor	M.E/M.Tech
20	Dr.JEYAKUMAR KOLLAPPAN	Professor	ME/M. Tech and PhD
21	M BHASKAR BABU	Assistant Professor	M.E/M.Tech
22	V GOWRISPANDANA	Assistant Professor	M.E/M.Tech
23	I J ABHISHITHA	Assistant Professor	M.E/M.Tech
24	K HARSHAVARDHAN REDDY	Assistant Professor	M.E/M.Tech
25	P VENKATESWARLU	Assistant Professor	M.E/M.Tech
26	S. AMALA	Assistant Professor	M.E/M.Tech
27	YENDLURI RAMAIAH	Assistant Professor	M.E/M.Tech

## FACULTY PUBLICATIONS

S. No.	Title of paper	Name of the author/s	Name of journal	ISSN number
1	creation of a Sensor Network and Mobile Agent-based System for Monitoring the Condition of Equipment Rooms	Y.DAVIDU	JBST	ISSN:0976-0172
2	Using DC Current and Distribution Factor to Identify Potential Breakdown Sources in Power Systems	Dr.V.MADHU SUDHAN REDDY	hms	ISSN:1300-669
3	The Role of Information Technology and Independent Solar Power Systems in Colleges and Universities	Dr.RAJASELVAM	hms	ISSN:1300-669
4	Including a variety of riders and rides into the dial-a-ride concept and algorithm	CH.SRINIVASULU REDDY	ijbar	ISSN:2249-3352

5	Amplify-and-forward multiple-input multiple-output (MIMO) relay channel with incomplete channel state information; joint linear processing	A.BHAKTHAVACHALA	ijbar	ISSN:2249-3352
6	Multi-Goal Antenna Optimization Using Inexpensive EM Simulation	M.SRINU	ijbar	ISSN:2249-3352
7	The Case of the Operating Mode of the Skipper-II Parallel Programming Environment for Handling Algorithmic Skeleton Nesting Requirements in Real-World Image Processing Applications	T.HARI BABU	ijesr	ISSN:2277-2685
8	Small-scale compressed air energy storage systems with maximum efficiency or power tracking	P.RAJAY LAKSHMI	ijesr	ISSN:2277-2685
9	The statistical description and TOA placement feasibility analysis of ultra-wide band in-vehicle channel measurements	S.MUNIRAJA	ijesr	ISSN:2277-2685
10	Observing Occlusion's Impact on Kernel-Based Object Tracking in Virtual Reality	G.VENGALA RAO	ijpast	ISSN:2277-2685
11	Constrained MIMO radar waveform design by peak and total power	G.SUMAN	ijpast	ISSN:2229-6107
12	New Power Balancing According to Standard 1459	M.GIRI BABU	ijpast	ISSN:2269-6107
13	Improvements in data transfer rates and energy efficiency through opportunistic relaying in residential power networks	CH.SWAPNA	<a href="http://jst.org.in">jst.org.in</a>	ISSN:2456-5660
14	Multi-Terminal Direct Current (DC) Networks for Grid Integration of Offshore Wind Farms: Operation and Power Flow Control Using Genetic Algorithms	G.HARI BABU	<a href="http://jst.org.in">jst.org.in</a>	ISSN:2456-5660
15	Designing Reliable Trans Multiplexers in Noisy Environments	Y.SIVA PRASAD	<a href="http://jst.org.in">jst.org.in</a>	ISSN:2456-5660
16	Conception and Realization Eight stage DC-AC Inverter Using Of SVPWM	K.SWETHA	yiddish	ISSN:0364-4308

## ACADEMIC TOPPERS

Heartiest Congratulations to the Toppers the Management, Principal, Faculty & Students of EEE Dept., are happy to congratulate the students for proving their excellence in the University Examinations for the A.Y. 2021-2022, conducted by JNTUA, Ananthapur.

### (I B. TECH, II-SEM, 2020 BATCH)

I B. Tech, II-Sem				
S. No	Roll Number	Name	Percentage	Rank
1	20731A0201	A. CHAITANYA	87.3%	I
2	20731A0212	J. HARI PRIYA	87.2%	II
3.	20731A0208	D.LAKSHMI PRIYANKA	86.3%	III



## (II B. TECH, II-SEM, 2019 BATCH)

II B. Tech, II-Sem				
S. No	Roll Number	Name	Percentage	Rank
1	19731A0247	KOKKILIGADDA ANUSHA	88.1%	I
2	19731A0212)	DEVARAPALLI ABHINAYA	87.12%	II
3.	20735A0221	KAPPALA AMRUTHA	82.1%	III

## (III B. TECH, II-SEM, 2018 BATCH)

III B. Tech, II-Sem				
S. No	Roll Number	Name	Percentage	Rank
1	18731A0245	PALA ANUHYA	89.1%	I
2	18731A0222	MORUSU SWAPNA	87.6%	II
3.	19735A0213	CH.JASWANTHI	83.5%	III

## (IV B. TECH, II-SEM, 2017 BATCH)

IV B. Tech, II-Sem				
S. No	Roll Number	Name	Percentage	Rank
1	17731A0234	M.MADHURI	91.5%	I
2	17731A0215	CH. MANJUSHA	91.33%	II
3.	17731A0207	B. PRIYANKA	90.4%	III

### **Guest lecture on “Electrical Engineering Education: A perspective from a Developing Country” Report:**

Department of Electrical Engineering PBR VITS has organized a guest lecture on “Electrical Engineering Education: A perspective from a Developing Country” on 16-12-2021. The resource person from Prof & Head of Department of EEE JNTUA college of Engineering, Pulivendula.

He shared his teaching experience and explained in detail what are the latest Technologies “Electrical Engineering Education: A perspective from a Developing Country”. Along with he also spoke on career perspective domains in electrical industries for the students.

Hod of EEE Mr. A. Bhakthavatsala introduced the speaker and Mr. S. Muni Raja, proposed the vote of thanks for the session. In all, 150 students and faculty of electrical attended the guest lecture.

Outcome:

1. Students gained the “Electrical Engineering Education: A perspective from a Developing Country” concepts.
2. Students felt that, the role of each and every person “Electrical Engineering Education: A perspective from a Developing Country” had a responsibility for future generation.
3. Faculty improved their teaching skills.

Photographs:

Guest lecture on “Electrical Engineering Education: A perspective from a Developing Country” by Dr. G. V. NAGESH KUMAR, Prof. & Head of Department of EEE JNTUA College of Engineering, Pulivendula on 16/12/2021.



## Industrial Visit at Srisailam Right Bank Power House-APGENCO Plant”

Department of Electrical Engineering PBR VITS has organized a Industrial Visit at Sri-sailam Right Bank Power House-APGENCO Plant” on 19-12-2021. The resource person from APGENCO, has been working in the Srisailam over 15 years of experience as a Divisional Engineer in various power domains.

He shared his industry experience and explained in detailed about the Hydal Power plant and its working and functioning of each generator units in the plant to the students and explained the how much power flows in this plant daily nature in all conditions and he motivated the students to do the Internship certificate course also.

Along with he also spoke on career perspective domains in electrical industries for the students.

HoD of EEE Mr. A. Bhakthavatsala was encouraged to organize the Industrial visit with the faculties of V. Mastanaiah and M. Giri Babu with 44 Electrical students.

Outcome:

- Students know the how to generate Electrical Energy in Hydal Power Plant.
- Students felt that, the role of each and every person had a responsibility to conserve the electrical energy for future generation.

Faculty are organized smoothly nature.

**Industrial visit at “Srisailam Right Bank Power House-APGENCO Plant”  
By,G. Venkateswarlu, DE, APGENCO, Srisailam on 19/12/2021.**

**P.B.R. VISVODAYA INSTITUTE OF TECHNOLOGY & SCIENCE**  
(AUTONOMOUS)  
(Affiliated to J.N.T.U.A., Approved by AICTE and Accredited by NAAC)  
KAVALI - 524 201, S.P.S.R. Nellore Dist., A.P. India. Phn No : 08626-243930

**DEPARTMENT OF  
"ELECTRICAL & ELECTRONICS ENGINEERING"  
(2019 - 2023)  
INDUSTRIAL TOUR**

at SRI SAILAM RIGHT BANK POWER HOUSE, AP GENCO PLANT

On 18<sup>th</sup> December - 2021  
By III B.Tech EEE Students

Organised by  
**EEE Department**



## PLACEMENT SUMMARY

S.NO	Name of the Company	No. of students Placed	Salary per annum(lacks)
1	CTS	1	4.00
2	DXC	3	3.60
3	HEXAWARE	8	2.80
4	METRIX LAB	1	3.0
5	QUALITY KIOSK	1	2.40
6	SL LUMAX	7	2.25
7	TCS	1	3.36
8	TECH MAHENDRA	1	3.50
9	TVS SUNDARAM	13	1.50
10	WORKSBOT	8	2.28
Total		44	



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