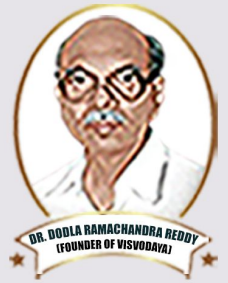




PBR VISVODAYA INSTITUTE OF TECHNOLOGY AND SCIENCE

KAVALI, NELLORE (Dist.)



ECLECTIC Newsletter

VOLUME 07

JAN - JUN 2022

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

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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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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.

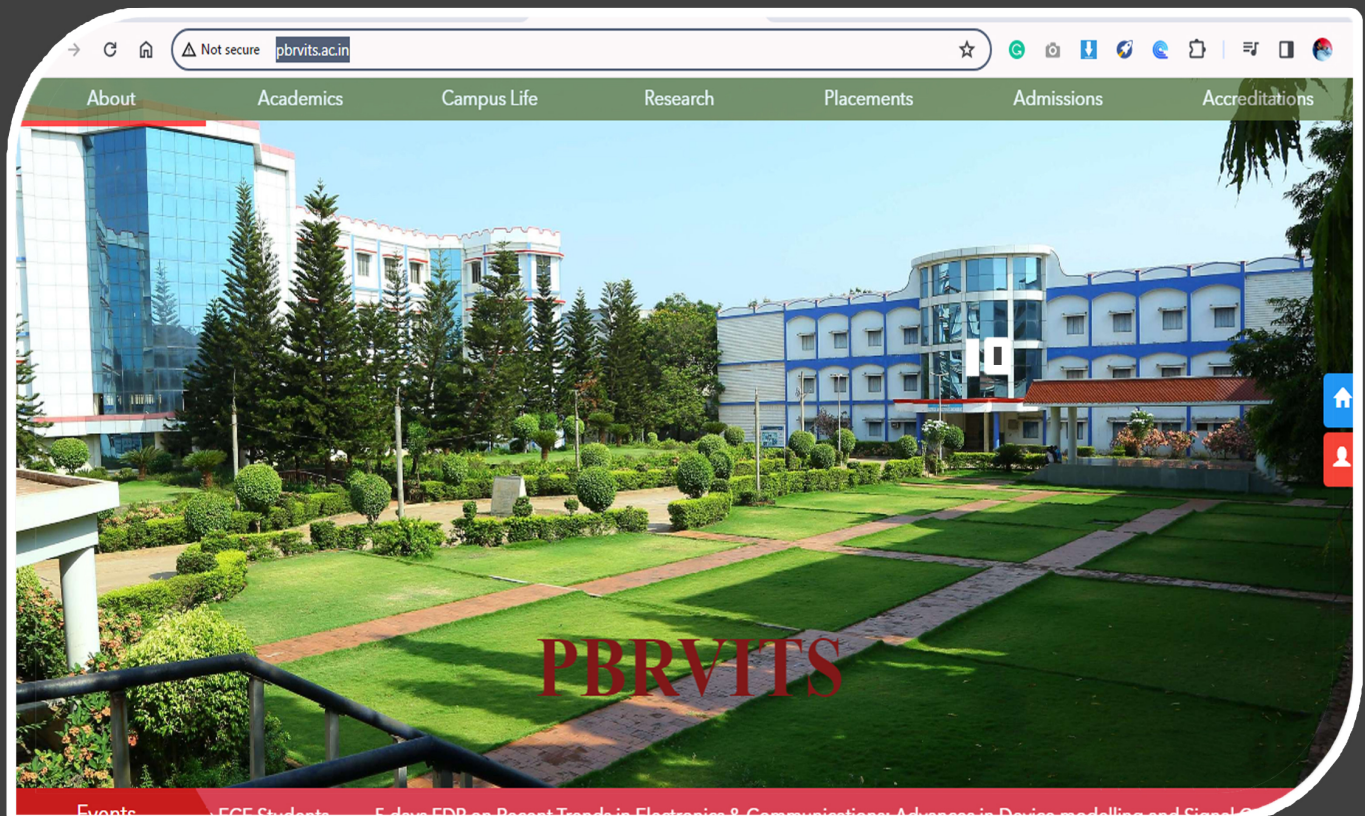
P.B.R. VISVODAYA INSTITUTE OF TECHNOLOGY & SCIENCE



EEE

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

College Website: www.pbrvits.ac.in



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	Sub-synchronous Oscillation in DFIG and SVG: Coordinated Damping Optimization Control	CH.SRINIVASULU REDDY	IJMMSA	ISSN:0973-8355
2	ISAR imaging at high resolution in the bistatic radar receiver canted region	Y.SIVA PRASAD	applied laser	ISSN:1000-372X
3	Brushless DC motor speed regulation with a fuzzy PID controller	P.ANIL KUMAR REDDY	hms	ISSN:1300-669
4	ECG Task Performance Tuning and IoT Data Compression Optimization Through Dynamic-Deep Learning	M.GIRI BABU	IJESR	ISSN:2277-2685
5	Problems with Sustainable Development Education	G.VENGALA RAO	IJESR	ISSN:2277-2685
6	Authentication of Data at Every Stage a Deep Learning Model for Protecting Internet of Things Setups	G.SUMAN	IJESR	ISSN:2277-2685

7	Using the MATLAB R Audio System Toolbox™ to Improve a Real-Time Audio Laboratory	G.HARI BABU	IJBAR	ISSN:2249-3352
8	Architecture for Fault-Tolerant Embedded Systems	Dr.RAJASELVAM	IJBAR	ISSN:2249-3352
9	Hand-Held Remotely Operated Robotic Arm	A.BHAKTHAVACHALA	HMS	ISSN:1300-669
10	The IoT's Potential for Smarter Cities, Farms, and Hospitals	Dr.V.MADHU SUDHAN REDDY	HMS	ISSN:1300-669
11	Using Internet of Things Data to Boost CRM	Y.SIVA PRASAD	JBST ONLINE	ISSN:0976-0172
12	Histopathological Breast Cancer Image Analysis Using Deep Learning	V.MASTHANAI AH	JBST ONLINE	ISSN:0976-0172
13	Clock gating and a carry select adder are the foundations of this low-power aluminized copper oxide (Alu) design.	T.HARI BABU	jcs journal	ISSN:9726-001X
14	Using the Internet of Things to Create a Feminine Safety Device	S.MUNIRAJA	jcs journal	ISSN:9726-001X
15	The Development of an Efficient Approximate Multiplier Using Rounding Techniques	P.RAJAY LAKSHMI	jcs journal	ISSN:9726-001X
16	An Introduction to Distributed Intelligence and Its Use in Multi-Robot Systems	M.SRINU	jcs journal	ISSN:9726-001X
17	Electrical Power Traction Line Fault Localization	V.MASTHANAI AH	IJCNWC	ISSN:2250-3501
18	Sub-synchronous Oscillation in DFIG and SVG, Controlled by Cooperative Damping Optimization	V.MASTHANAI AH	IJCNWC	ISSN:2250-3501
19	Fault current limiting devices for a 110 kV/100 MW power network: a comparison of superconducting and conventional technologies	P.RAJAY LAKSHMI	YIDDISH	ISSN:0364-4308
20	Electrical Power Traction Line Fault Localization	P.RAJAY LAKSHMI	IJCNWC	ISSN:2250-3501
21	Sub-synchronous Oscillation in DFIG and SVG, Controlled by Cooperative Damping Optimization	CH.SRINIVASULU REDDY	IJCNWC	ISSN:2250-3501
22	Fault current limiting devices for a 110 kV/100 MW power network: a comparison of superconducting and conventional technologies	CH SWAPNA	YIDDISH	ISSN:0364-4308
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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 Examinations for the A.Y. 2021-2022, conducted by P.B.R. VISVODAYA INSTITUTE OF TECHNOLOGY & SCIENCE (AUTONOMOUS).

(I B. TECH, I-SEM, 2021 BATCH)

S. No	Roll Number	Percentage	Rank
1	21713A0234	89.25%	I
2	21731A0211	87.5%	II
3.	21731A0247	85%	III

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.

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

II B. Tech, I-Sem				
S. No	Roll Number	Name	Percentage	Rank
1	21735A0220	CH.REDDY	86.11%	I
2	20731A0201	A.CHAITANYA	84.3%	II
3.	21735A0210	V.ANIL KUMAR	83.9%	III

(III B. TECH, I-SEM, 2019 BATCH)

III B. Tech, I-Sem

S. No	Roll Number	Name	Percentage	Rank
1	19731A0212	DEVARAPALLI ABHINAYA	88.3%	I
2	19731A0247	KOKKILIGADDA ANUSHA	88.22%	II
3.	19731A0213	GUNDABATHINA SREEJA	86.77%	III

(IV B. TECH, I-SEM, 2018 BATCH)

IV B. Tech, I-Sem

S. No	Roll Number	Name	Percentage	Rank
1	18731A0222	MORUSU SWAPNA	89.7%	I
2	18731A0245	PALA ANUHYA	88%	II
3.	18731A0224	MUSUNURU SANKEERTHANA	87.1%	III

FDP- SUMMARY REPORT

Name of the FDP:Power System Distribution & Performance Assessment for a Rocket Launching Station Advances

Date : 13.02.2022

Resource Persons: Mr. K.K.S.V.V Praksash Rao, Head, Electrical System Launch Complex, Sdshar.

Chief Guest invited: Dr. G. Marutheswara Rao, Professor, SV University, Thirupathi

Topics Covered:

- Introduction to the development of Power Transmission.
- Recent advances in UHV power transmission systems; present status and future growth.
- Major Components of HV transmission systems, types of conductor configurations conductor accessories/clamps etc.
- Up-gradation of existing transmission lines

Participants:

Total No. of Participants: 19

(External-11, VITS staff-6, MTech students-2)

Feedback from Participants

- All facilities are good.
- Concepts are well covered.
- Practical sessions are very much useful.

Recommendations for the coming events:

- Event can be conducted for different fields.
- Practical session time is to be increased.
- Event can be conducted once in every year.

PHOTO GRAPHS:



STUDENT HOBBY CLUB

The Department of Electrical and Electronics Engineering (EEE) conducting weekly student club activity termed as “Hobby Club”. The activities under this club are both Technical and Non-Technical. The following are the evidences of club activity conducted on 08.01.2022



Workshop on “Introduction of Micro Grid Protection & Numerical Protection Relay Testing”

REPORT:

Department of Electrical & Electronics Engineering, PBR VITS has Organized a Workshop on “Introduction of Micro Grid Protection & Numerical Protection Relay Testing” from 17-12-2021 to 19-12-2021 for IV B. Tech EEE Students. In this program, 66 students and 8 faculty members have attended. This workshop was inaugurated by A. Bakthavachala, HOD of EEE, who explains the introduction of Micro Grid Protection & Numerical Protection Relay Testing with reference to the present-day scenario in his inaugural speech.

Take off Edu group was the resource person of this workshop. During sessions they introduced the mobile application development technologies and showed how to develop one application and how to install in mobile phones along with the importance of the programming languages used to develop mobile OS as per current industry needs.

The following topics were covered in the workshop

- Android App Designing & application technologies
- Examples on few real-world problems
- Basics of Android OS
- J2ME Introduction
- Layouts of Android OS

In the valedictory session, merit certificates are distributed to the students whose performance is excellent. Finally, the Resource person was facilitated by the Principal, HOD and the event Coordinator.

OUTCOMES: Students were able to

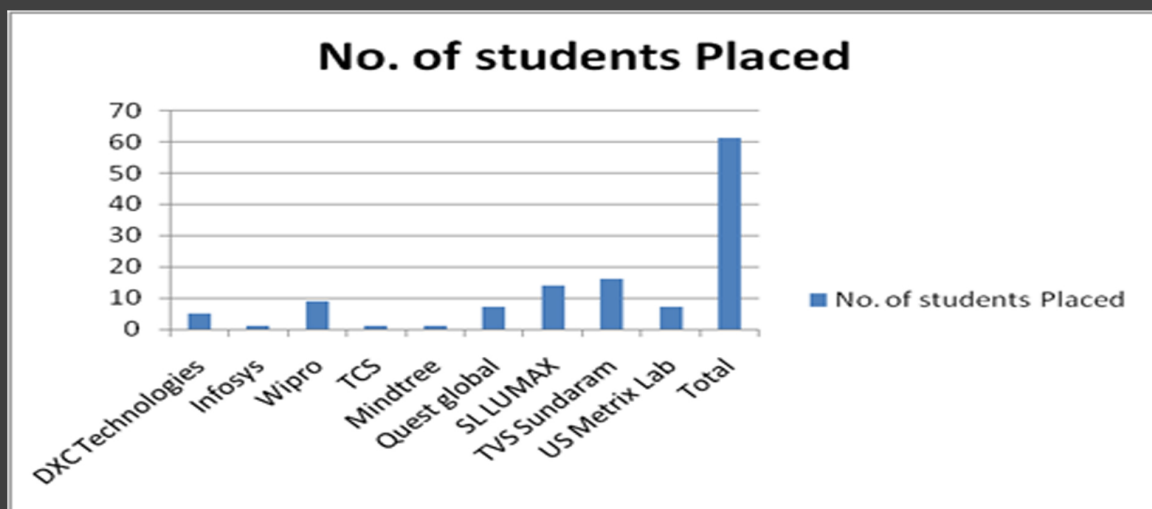
- explain the basics of Android OS
- use the advanced software for developing various applications
- develop the Understand the Android applications





Placements Data for year 2021-22

S.NO	Name of the Company	No. of students Placed	Salary per annum(lacks)
1	DXC Technologies	5	4
2	Infosys	1	3.60
3	Wipro	9	4
4	TCS	1	3.30
5	Mindtree	1	4
6	Quest global	7	3.0
7	SL LUMAX	14	2.25
8	TVS Sundaram	16	2
9	US Metrix Lab	7	2.82
Total		61	





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