



PBR VISVODAYA INSTITUTE OF TECHNOLOGY AND SCIENCE

KAVALI, NELLORE (Dist.)



DR. DOODLA RAMACHANDRA REDDY
(FOUNDER OF VISVODAYA)

ELECTRONICA Newsletter

VOLUME 4

JUL - DEC 2019

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING Editorial Board Members

Editor-in-Chief

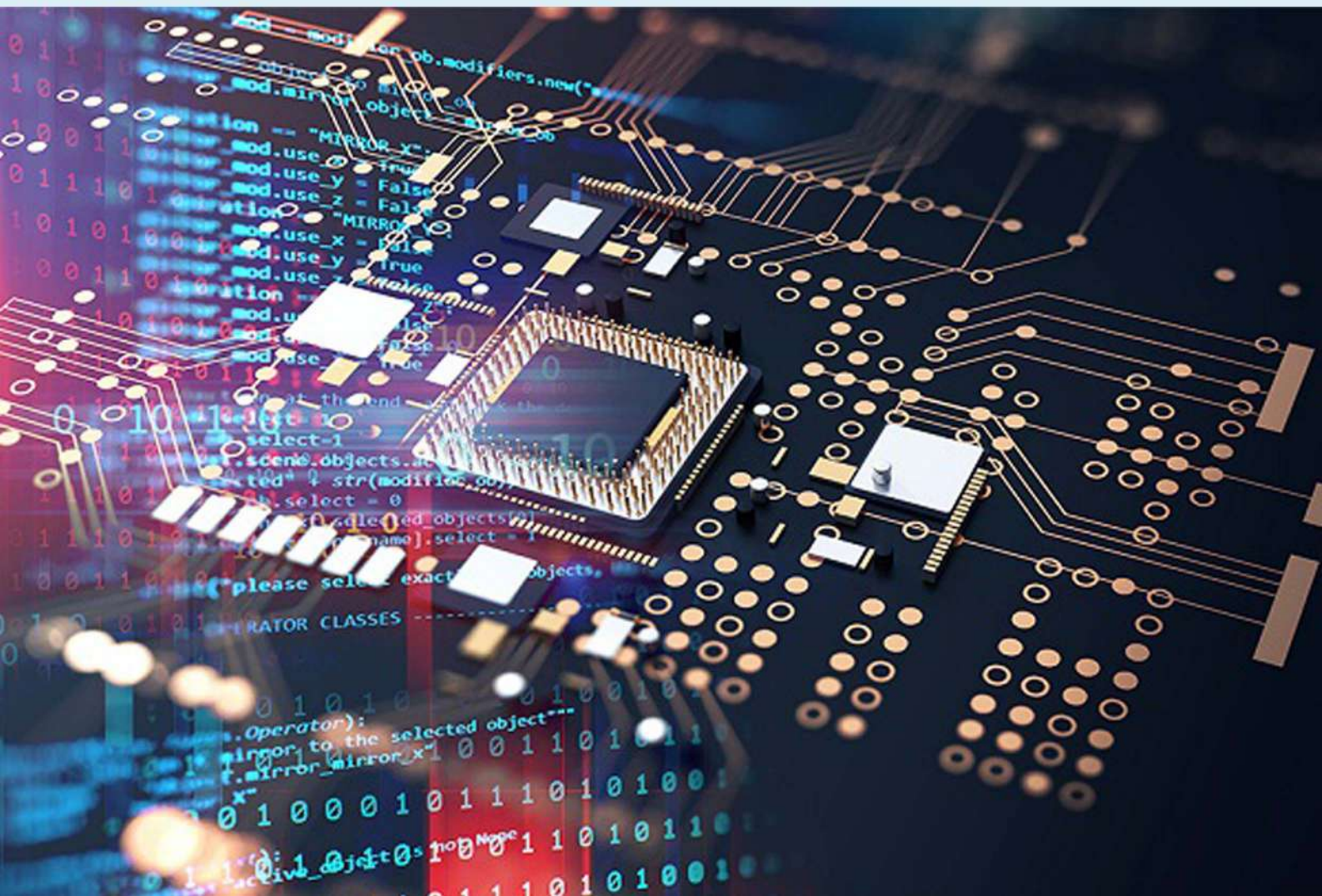
Dr. A. Maheswara Rao
Professor & Head of Dept., ECE

Faculty Editors

Dr. S.V. Subba Rao, Professor
Ms. M. Pavithra, Assistant Professor

Student Editors

Navya Teja Karanam (16731A0407)
P V Praveen Kumar (17731A0419)



Department of Electronics And Communication Engineering **ELECTRONICA**

NEWSLETTER

JUN - DEC 2019

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

Program Educational Objectives (PEOs)

PEO-I : Graduates will have the capabilities to analyze, design and develop innovative solutions for the problems in the field of Electronics and Communication Engineering using core competencies.

PEO-II : Graduates will have the ability to engage themselves in research and lifelong learning to achieve professional excellence.

PEO-III : Graduates will have successful career with leadership qualities, ethics and good communication skills in Electronics and Communication Engineering and related fields.

ECE
PBRVITS

**DEPARTMENT OF ELECTRONICS &
COMMUNICATION ENGINEERING**

DEPARTMENT PROFILE

✧ The Department of Electronics and Communication Engineering (ECE) was established in the years 1998–99 with an intake of 60 and currently running with an intake of 240. It is 21 years old now and one of the most well-established departments in our Institution. It is also offering one post graduate programme with the specialization of VLSI Design with an intake of 30 students.

✧ The Department is known for its esteemed faculty members who are renowned for their path-breaking contributions in the field of electronics and communications. It is well equipped with laboratories, audio-visual facilities and software tools such as Multi Sim, Model Sim, Lab View, HFSS, MATLAB, and Xilinx.

✧ We offer our students an excellent educational experience that combines intellectual rigor and cross-disciplinary breadth. The course contents are periodically updated to introduce new scientific and technological developments. Electronic design, communication technologies, hands-on programming, a research focus, and entrepreneurship skills are all part of our signature educational curriculum. The ECE domain is often regarded as a challenging culmination of hardware and software. Our curriculum focuses primarily on the knowledge and skills that emerging engineers need.

DEPARTMENT: VISION & MISSION

Vision:

To produce technically competent and research oriented Electronics and Communication Engineers to meet the Industrial and Social requirements.

Mission:

M1: To impart quality technical education in the field of Electronics and Communication Engineering through state-of-the art facilities and effective teaching learning process.

M2: To enrich the faculty and students with research and consultancy skills through Industry-Interaction and Training in Emerging areas of Electronics and Communication Engineering.

M3: To develop lifelong learning, leadership qualities and ethical values in learners to meet the societal and industrial needs.



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 modeling 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.

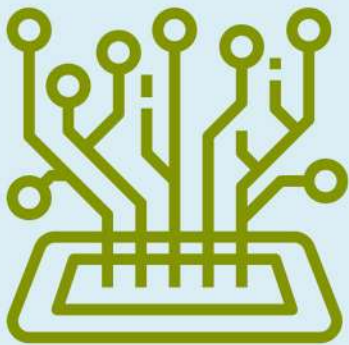
12. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PROGRAM SPECIFIC OUTCOMES (PSOs)

* PSO-1: Graduates will be able to design and analyze Image Processing and Communication Systems concepts using appropriate tools.

* PSO-2: Graduates will be able to design and develop solutions for real world problems by applying the concepts of VLSI and Embedded Systems.

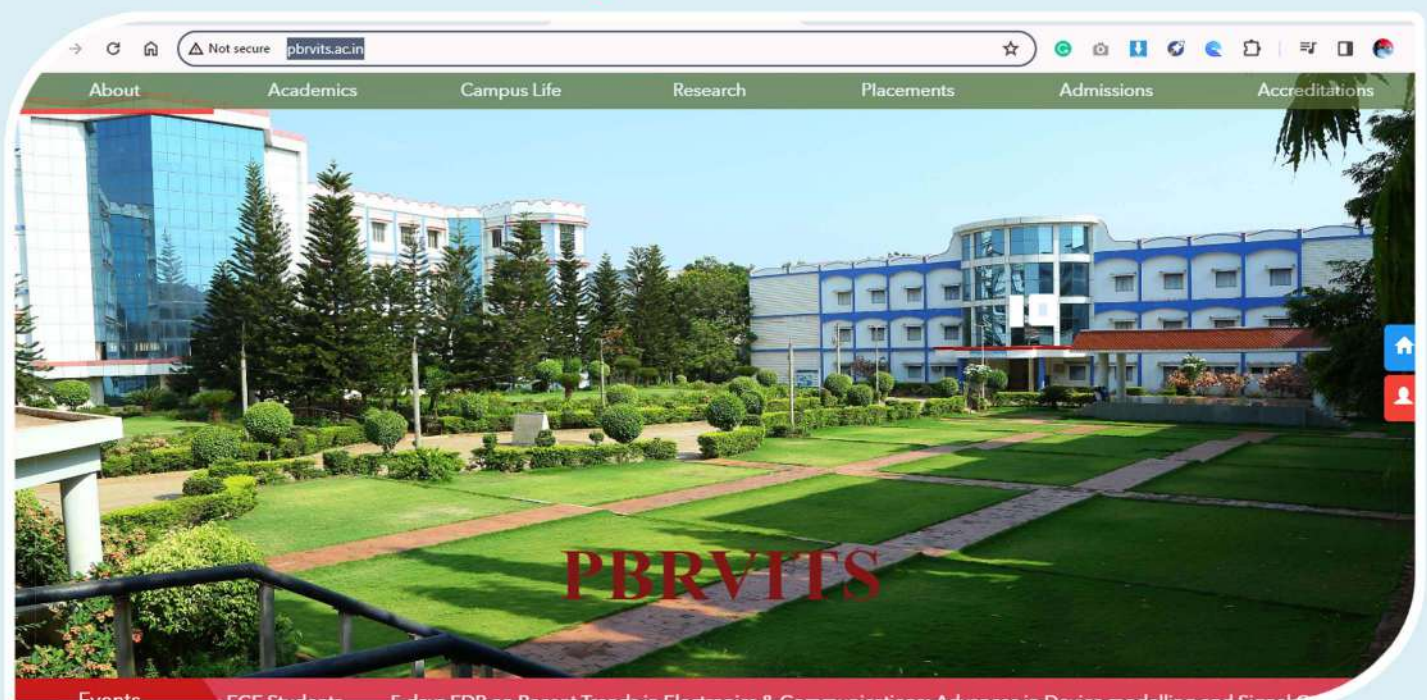
P.B.R. VISVODAYA INSTITUTE OF TECHNOLOGY & SCIENCE



ECE

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

College Website: www.pbrvits.ac.in



FACULTY DETAILS

S.No.	Name	Designation	Qualification
1	Dr. DODLA PRATHYUSHA REDDI	Professor	ME/M. Tech and PhD
2	Dr. AVULA MAHESWARA RAO	Professor	ME/M. Tech and PhD
3	Dr. S.V. SUBBA RAO	Professor	ME/M. Tech and PhD
4	Dr. A S VISWANADHA SARMA	Professor	ME/M. Tech and PhD
5	Mr. VEMURU PHANIBHSHAN	Assistant Professor	M.E/M. Tech
6	Mr. ARAVA SUMAN KUMAR REDDY	Assistant Professor	M.E/M. Tech
7	Mr. RAMRAJSINGH PRATHAP SINGH	Assistant Professor	M.E/M. Tech
8	Ms. MODI PAVITHRA	Assistant Professor	M.E/M. Tech
9	Ms. MUSALI SUREKHA	Assistant Professor	M.E/M. Tech
10	Mr. V BHARATH KUMAR	Assistant Professor	M.E/M. Tech
11	Mr. M RAMA MOHAN REDDY	Assistant Professor	M.E/M. Tech
12	Mr. VANTERU NARAYNA REDDY	Assistant Professor	M.E/M. Tech
13	Mr. AKURATHI SRINIVASA RAO	Assistant Professor	M.E/M. Tech
14	Mr. CH AMARNATHA SARMA	Assistant Professor	M.E/M. Tech
15	Mrs. K KIRANMAYIJYOTHI	Assistant Professor	M.E/M. Tech
16	Mr. L.M.L. NARAYANA REDDY	Assistant Professor	M.E/M. Tech
17	Mr. LALLAM VASU	Assistant Professor	M.E/M. Tech
18	Mr. D YALAMANDA	Assistant Professor	M.E/M. Tech
19	Mr. K ASHOK KUMAR	Assistant Professor	M.E/M. Tech
20	Mr. SK RASOOL	Assistant Professor	M.E/M. Tech
21	Mr. M VENKATA RATHNAM	Assistant Professor	M.E/M. Tech
22	Mrs. M MADHULIKA	Assistant Professor	M.E/M. Tech
23	Mr. RAYALA RANJIT KUMAR	Assistant Professor	M.E/M. Tech
24	Mr. ALLA VENKA REDDY	Assistant Professor	M.E/M. Tech
25	Mr. M SREEHARI	Assistant Professor	M.E/M. Tech
26	Mrs. SADA MADHURI	Assistant Professor	M.E/M. Tech
27	Mr. N CHINA BABU	Assistant Professor	M.E/M. Tech
28	Mr. D UMAMAHESWARA REDDY	Assistant Professor	M.E/M. Tech
29	Ms. JAGANNADAM SUJITHA	Assistant Professor	M.E/M. Tech
30	Mr. GAJULAPALLE SIVANJANEYA REDDY	Assistant Professor	M.E/M. Tech
31	Mr. T GOWRI KISHORE	Assistant Professor	M.E/M. Tech
32	Mr. V PRASANNAJANEYA REDDY	Assistant Professor	M.E/M. Tech
33	Mr. R SATHEESH	Assistant Professor	M.E/M. Tech
34	Ms. KAMEPALLI UMA	Assistant Professor	M.E/M. Tech
35	Mrs. CH REDDY USHA	Assistant Professor	M.E/M. Tech

FACULTY PUBLICATIONS

S. No.	Title of paper	Name of the author/s	Name of journal	ISSN number
1	IOT Based Auto Metro Train Shuttle between Stations	A. Suman Kumar Reddy	(JETIR)	2349-5162
2	IOT Based Auto Metro Train Shuttle between Stations	Dr. A. Maheswara Rao	(JETIR)	2349-5162
3	Detection of Autism in Children by the EEG Behavior Using Hybrid Bat Algorithm-Based ANFIS Classifier	N. Satheesh Kumar	(CSSP)	0278-081X
4	Design and Parametric Analysis of Beveled UWB TripleBand Rejection Antenna	Dr. A. Maheswara Rao	(PIER)	1937-8726
5	Segmentation of Thermogram based on Region based technique using Split and Merge method	V. Phani Bhushan	(IJRTE)	2277-3878
6	A Novel Method For Blood Bank Monitoring System Using GSM And Raspberry Pi (RPI)	R. Prathap Singh	(IJRTE)	2249-7455
7	Simple And Efficient Data Encryption Algorithm	N. Krishna Chaitanya	(IJRTE)	2277-8616
8	Simple And Efficient Data Encryption Algorithm	A. Suman Kumar Reddy	(IJRTE)	2277-8616

ACADEMIC TOPPERS

Heartiest Congratulations to the Toppers the Management, Principal, Faculty & Students of ECE Dept., are happy to congratulate the students for proving their excellence in the University Examinations for the A.Y. 2018-2019, conducted by JNTUA, Ananthapur.

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

I B. Tech, II-Sem				
S. No	Roll Number	Name	Percentage (%)	Rank
1	18731A0403	BONDILI NAGA SAI CHARAN SINGH	93.75	I
2	18731A0440	AVULA MANJU PRIYA	92.25	II
3	18731A0461	PELLURU LAHARI	91.125	III

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

II B. Tech, II- Sem				
S. No	Roll Number	Name	Percentage (%)	Rank
1	17731A04A1	MANCHIKALAPADU NIKHIL KUMAR	92.22	I
2	17731A0413	KOLLI BHAVYA	90.44	II
3	17731A0477	GOLLAPALLI ESWARAMMA	88.22	III

(III B. TECH, II-SEM, 2016 BATCH)

III B. Tech, II-Sem				
S. No	Roll Number	Name	Percentage (%)	Rank
1	16731A0428	LAKSHMI MANASA YARRAMANENI	87.55	I
2	16731A0445	VENKATA ALEKHYA MODADUGU	86.55	II
3	16731A0435	KEERTHANA ARCOT	86.33	III

(IV B. TECH, II-SEM, 2015 BATCH)

IV B. Tech, II-Sem				
S. No	Roll Number	Name	Percentage (%)	Rank
1	15731A0404	BAPATLA PRAVEEN	89	I
2	15731A0413	GADAMSETTY SAI RAMYA	87	II
3	15731A0415	GUDE PRIYANKA	86	III

GUEST LECTURES

INFLUENCE OF SATELLITE AND IT ON BROADCASTING:

The Guest Lecture was organized by the department of ECE on “INFLUENCE OF SATELLITE AND IT ON BROADCASTING” which is held on 19.07.2019. The experts for this program are by Dr. D. Ranganatham, Dy General Director of Dooradarshan Kendra, Vijayawada. In this program 214 students and 17 faculty members were attended.



Resource person Dr. D. Ranganatham before delivered the lecture he introducing himself and explain the satellite broadcasting technology and impact the evolution of mass media industry by changing its conventional system into a modern industry. It will simplify the production process, save cost and time and minimize human resources.

ANALYSIS OF VARIOUS SIGNALS:

The Guest Lecture was organized by the department of ECE on “ANALYSIS OF VARIOUS SIGNALS” which is held on 04.10.2019. The experts for this program are by Mr. P. Kalee Prasad, Senior Assistant Engineer of Dooradarshan Kendra, Vijayawada. In this program 218 students and 12 faculty members were attended.



Resource person Mr. P. Kalee Prasad before delivered the lecture he introducing himself and explain the System interconnection, System properties in terms of impulse response, step response in terms of impulse response, Fourier transform of periodic signals, CFTS and DFTS, Properties of region of convergence.

ROLE OF ENGINEER IN SOCIETY:

The Guest Lecture was organized by the department of ECE on “ROLE OF ENGINEER IN SOCIETY” which is held on 23.12.2019. The experts for this program are by Mr. SD Mohidur Rahaman, Associate Professor, Psychology, KLU Vijayawada... The students of IV B. Tech ECE Students of participated.



Resource person Mr. SD Mohidur Rahaman before delivered the lecture he introducing himself and explain the Role of Engineer in Society like Creating new technologies to solve world problems. The Engineer will be Innovating, designing, creating and maintaining products, systems and equipment for the benefit and wellbeing of humans.

SEMINARS

AWARENESS PROGRAM ON ENVIRONMENTAL CHANGES AND EFFECT ON HUMAN HEALTH:

A Seminar was organized by the department of ECE on “AWARENESS PROGRAM ON ENVIRONMENTAL CHANGES AND EFFECT ON HUMAN HEALTH” which is held on 24.10.2019. The expert for this program is Dr. M V Bhaskar reddy, Professor, department of chemistry, J B Degree College, Kavali, Senior Assistant Engineer of Dooradarshan Kendra, Vijayawada. In this program 201 students and 12 faculty members were attended.



Resource person Dr. M V Bhaskar reddy before delivered the seminar he introducing himself and has given a speech on Adverse Effects of Environment like degradation of soil, water and air, the changes that reduce flora and fauna etc. He emphasized how these effects causes students get ill health because of pollution. He suggested the student community that is their responsibility to protect future generation from these effects by educating public and private sectors to take remedial steps in protecting the environment.

PLACEMENT SUMMARY

S. No.	Name of the Company	Number of students selected
1	TCS	11
2	PRODAPT	13
3	IBS SOFTWARE	6
4	TUDIP TECHNOLOGIES	2
5	METRIX LAB	5
6	HEXAWARE	11
7	QUALITY KIOSK	4
8	WORKSBOT	28
9	ACCENTURE	9
10	IBM	1
11	CTS	16
12	CAPGEMINI	1
13	DXC TECHNOLOGIES	33
14	INFOSYS	6
15	TECH MAHINDRA	4
TOTAL		151



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