AUTONOMOUS

PBR VISVODAYA INSTITUTE
OF TECHNOLOGY AND SCIENCE
KAVALI, NELLORE (Dist.)

DR. DODLA RAMACHANDRA REDDY
(FOUNDER OF VISVODAYA)

ELECTRONICA Newsletter

VOLUME 9   **JAN - JUN 2023**

DEPARTMENT OF
ELECTRONICS AND COMMUNICATION ENGINEERING
Editorial Board Members

Department of Electronics And Communication Engineering

ELECTRONICA

NEWSLETTER

JAN - JUN 2023

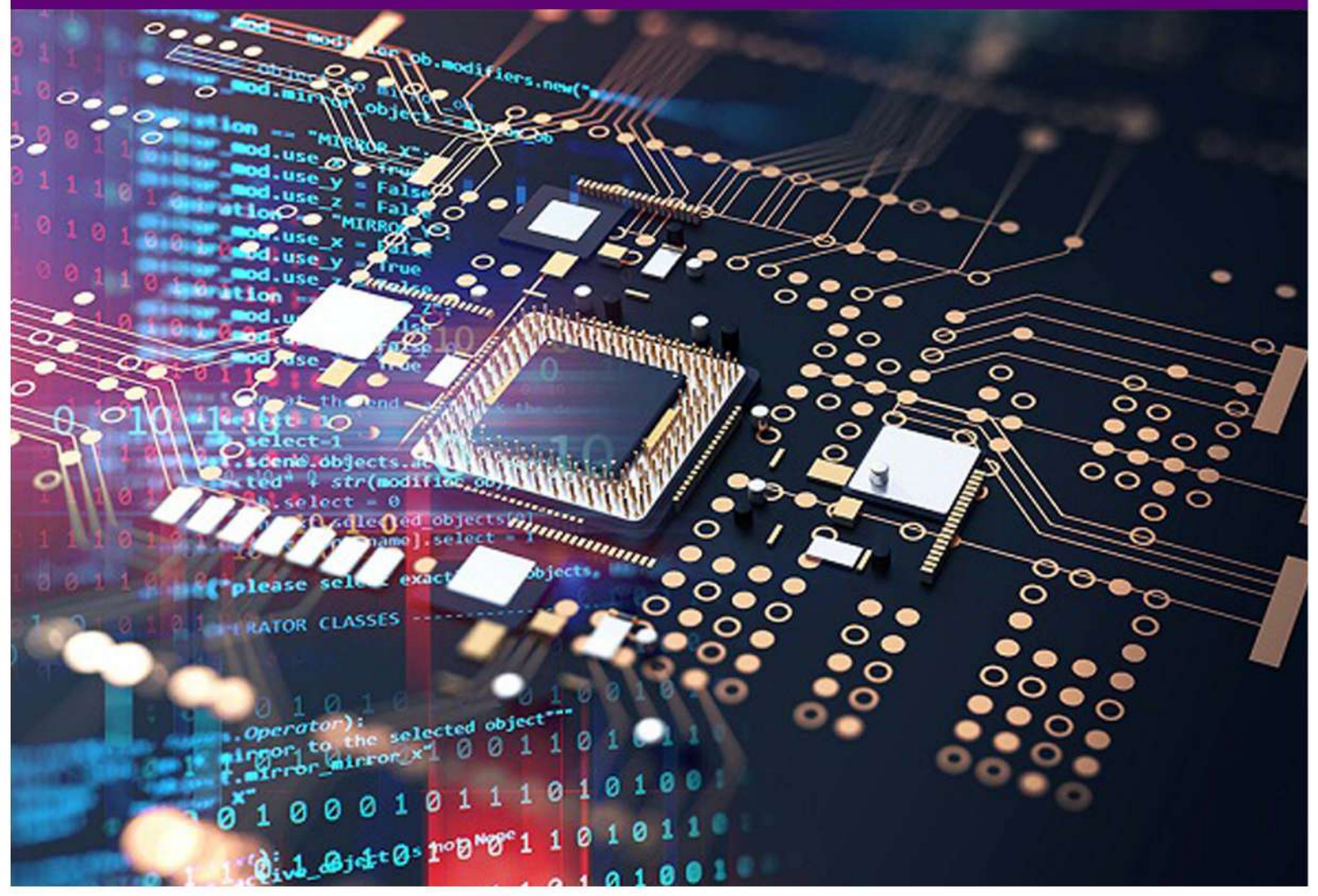## EDITORIAL BOARD

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Dr. R. Sravanthi,
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INSTITUTE: VISON & 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 360. It is 25 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: VISON & 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.
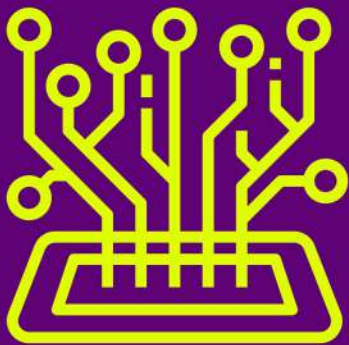
12. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

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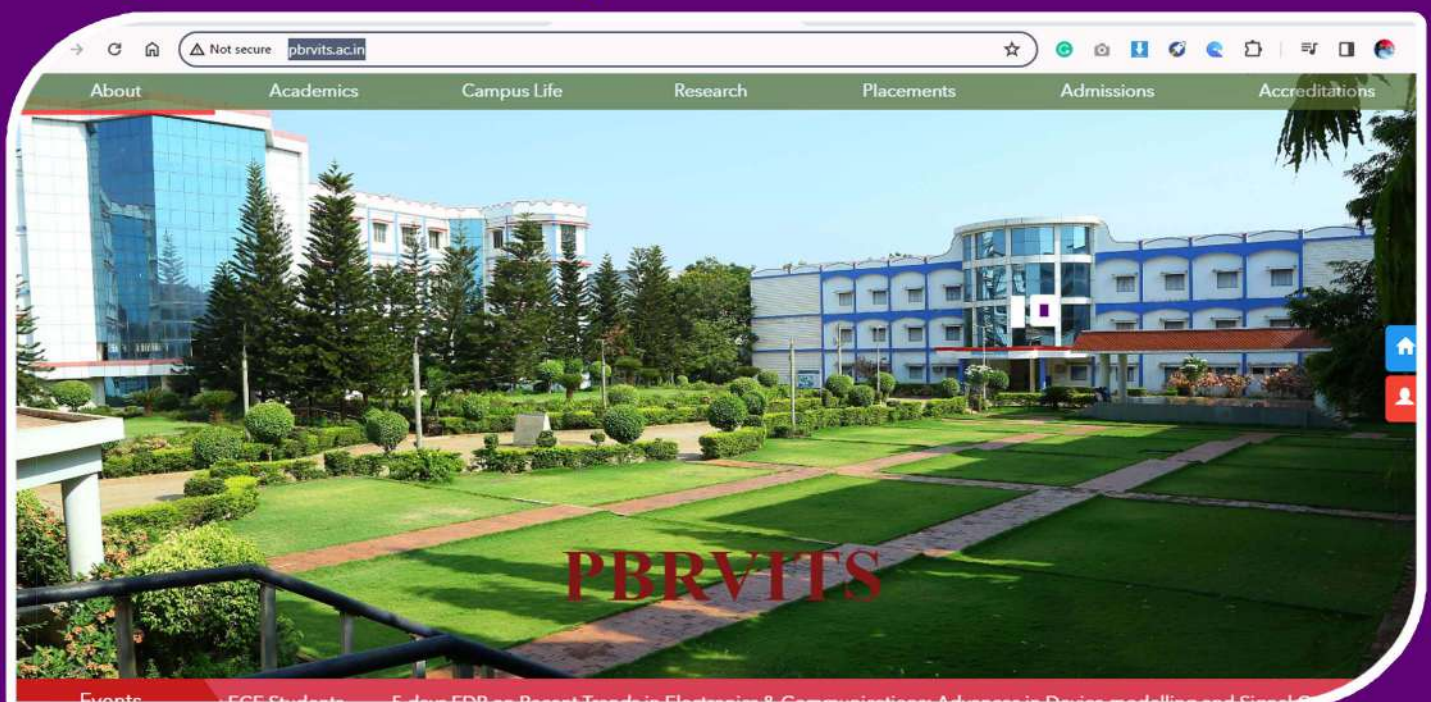
P.B.R. VISVODAYA INSTITUTE OF TECHNOLOGY & SCIENCE

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	Dr. N. SATHEESH KUMAR	Professor	ME/M. Tech and PhD
6	Dr. V PAKASAM	Professor	ME/M. Tech and PhD
7	Dr. R M VENKATESEN	Professor	ME/M. Tech and PhD
8	Dr. MD HAYATH RAJVEE	Professor	ME/M. Tech and PhD
9	Dr. S M LAKSHMI	Professor	ME/M. Tech and PhD
10	Dr. S PENCHALA REDDY	Professor	ME/M. Tech and PhD
11	Dr. RAVI SRAVANTHI	Associate Professor	ME/M. Tech and PhD
12	Dr. DODLA LIKHITH REDDY	Associate Professor	ME/M. Tech and PhD
13	Mr. VEMURU PHANIBHSHAN	Assistant Professor	M.E/M. Tech
14	Mr. ARAVA SUMAN KUMAR REDDY	Assistant Professor	M.E/M. Tech
15	Mr. RAMRAJSINGH PRATHAP SINGH	Assistant Professor	M.E/M. Tech
16	Ms. MODI PAVITHRA	Assistant Professor	M.E/M. Tech
17	Ms. MUSALI SUREKHA	Assistant Professor	M.E/M. Tech
18	Mr. V BHARATH KUMAR	Assistant Professor	M.E/M. Tech
19	Mr. M RAMA MOHAN REDDY	Assistant Professor	M.E/M. Tech
20	Mr. VANTERU NARAYNA REDDY	Assistant Professor	M.E/M. Tech
21	Mr. AKURATHI SRINIVASA RAO	Assistant Professor	M.E/M. Tech
22	Mr. L.M.L. NARAYANA REDDY	Assistant Professor	M.E/M. Tech
23	Mr. LALLAM VASU	Assistant Professor	M.E/M. Tech
24	Mr. SK RASOOL	Assistant Professor	M.E/M. Tech
25	Mr. M VENKATA RATHNAM	Assistant Professor	M.E/M. Tech
26	Dr. RAYALA RANJIT KUMAR	Associate Professor	ME/M. Tech and PhD
27	Mr. ALLA VENKA REDDY	Assistant Professor	M.E/M. Tech
28	Mr. M SREEHARI	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	Ms. KAMEPALLI UMA	Assistant Professor	M.E/M. Tech
32	Mr. P SREENIVASULU	Assistant Professor	M.E/M. Tech

33	Mrs. A NAGAMALLI	Assistant Professor	M.E/M. Tech
34	Mr. K PENCHALAIAH	Assistant Professor	M.E/M. Tech
35	Mrs. SHAIK NAZMA SULTHANA	Assistant Professor	M.E/M. Tech
36	Ms. SYED SHAMARSULTHANA	Assistant Professor	M.E/M. Tech
37	Mr. G V S BHARDWAJ	Assistant Professor	M.E/M. Tech
38	Mrs. SK JABEENA	Assistant Professor	M.E/M. Tech
39	Mr. G MALYADRI	Assistant Professor	M.E/M. Tech
40	Mrs. P SASITHA	Assistant Professor	M.E/M. Tech
41	Mr. V ANJAIAH	Assistant Professor	M.E/M. Tech
42	Mr. K RAVICHANDRA	Assistant Professor	M.E/M. Tech
43	Mr. CH PAVAN KUMAR	Assistant Professor	M.E/M. Tech
44	Mr. SHAIK JAGADEESH	Assistant Professor	M.E/M. Tech
45	Mrs. P SHALINI	Assistant Professor	M.E/M. Tech
46	Mr. K RAVI BABU	Assistant Professor	M.E/M. Tech
47	Mrs. SHAIK AFRIN	Assistant Professor	M.E/M. Tech
48	Mrs. K S BHANU REKHA	Assistant Professor	M.E/M. Tech
49	Mrs. V LAKSHMI	Assistant Professor	M.E/M. Tech
50	Mr. A PHANI KRISHNA SARMA	Assistant Professor	M.E/M. Tech
51	Mrs. P SWATHI	Assistant Professor	M.E/M. Tech
52	Mr. G MANGARAO	Assistant Professor	M.E/M. Tech
53	Mrs. C V KAVYA SUVARCHALA	Assistant Professor	M.E/M. Tech
54	Mr. P VENKATESWARLU	Assistant Professor	M.E/M. Tech
55	Mrs. M MADHULIKA	Assistant Professor	M.E/M. Tech
56	Mr. K ASHOK KUMAR	Assistant Professor	M.E/M. Tech

FACULTY PUBLICATIONS

S. No.	Title of paper	Name of the author/s	Name of journal	ISSN number
1	Implementation Of Fault Tolerant Systolic Array Matrix Multiplier As Process Element Blocks For High Speed Computation	Mrs A Nagamalli	(JETIR)	2349-5162
2	Design and Optimization of Substrate Integrated Waveguide Bandpass Filter with T-Shape Slots Using Artificial Neural Networks	R. Ranjit Kumar	(PIER)	2211-3003
3	Development Of Internet Of Things Based Smart Warehouse Monitoring With Efficient Cloud Architectures	Mrs A Nagamalli	(IJCRT)	2320-2882
4	Automatic Pathway Clearance For Emergency Vehicle	G.V.S. Bharadwaj	(IJNRD)	2456-4184

5	A Comparison Algorithms for Sensing the Spectrum Using Deep Learning Techniques	Dr. V. Prakasam	(TIJER)	2349-9249
6	Estimation of DOA of Wide Band LFM Signals Using Few Snapshots	Dr. V. Prakasam	(TIJER)	2349-9249
7	Gain Enhancement with Miniaturized Dual Band T-Shaped, U-Shaped, H Shaped, E-Shaped Antennas For WLAN Applications	M. Ramamohan Reddy	(IJR)	2349-9249
8	A novel approach for distributed power control with retransmission facility in multi-hop energy harvesting links	Dr. V. Prakasam	(TIJER)	2349-9249
9	Image Classification Using LBP and SVM Classifier	K. Penchalaiah	(TIJER)	2349-9249
10	An Improved Energy-Efficient Clustering Protocol to Prolong the Lifetime of WSN Using FCM and CHSRA	K. Penchalaiah	(TIJER)	2349-9249
11	S-LEACH Protocol for increasing the lifetime of Wireless Sensor Network	Sk. Najma Sulthana	(TIJER)	2349-9249
12	IOT Based Dynamic Vehicle Speed Control System	GVS. Bharadwaj kumar	(IJNRD)	2456-4184
13	Design of High-speed, Area-efficient Three-operand binary adder	V Narayana Reddy	(CEJ)	0898-3577
14	TCAM for FPGAs: High Speed FPGA-based TCAM Architecture	V Narayana Reddy	(JETIR)	2349-5162
15	A Low Power High Speed Sense Amplifier Based Flip Flop in 45nm MTCMOS	V Narayana Reddy	(TIJER)	2349-9249
16	Vehicle Collision Detection and Notification System	CV Kavya Suvarchala	(IJNRD)	2456-4184
17	A Programmable And Parameter sable Reseeding Linear Feedback Shift Register	Dr. Hayath Rajvee Mohammad	(JETIR)	2349-5162
18	Green House Automation Using GSM And Arduino with Solar Power Supply	P. Venkateswarulu	(IJNRD)	2456-4184
19	Dragon Fruit: E-Farming Based on Weather Forecasting	P. Venkateswarulu	(IJNRD)	2456-4184
20	Pothole Detection and Levelling Robot	A. Srinivasa Rao	(IJNRD)	2456-4184
21	TIQ Flash ADC with Threshold Compensation	A. Srinivasa Rao	(JETIR)	2349-5162
22	Quiskest Detection Spectrum Sensing By Using Cumulative Sum	A. Srinivasa Rao	(TIJER	2349-9249
23	Design And Analysis of IoT Based Intelligent Robot For Real Time Monitoring And Control	Sk. Rasool	(IJNRD)	2456-4184
24	IoT- Based Covid-19 Suspect Smart Entrance Monitoring System	Sk. Rasool	(JES)	0377-9254
25	IOT Enabled Shipping Containers with Location Tracking And Environment Monitoring	SK. Jabeena	(IJNRD)	2456-4184
26	Smart Trolley Shopping for Automatic Billing& Assistance for Visually Impaired	SK. Jabeena	(JES)	0377-9254
27	A review on Fish Farm Aquarium Monitoring & Controlling System	SK. Jabeena	(IJNRD)	2456-4184
28	Channel Estimation for Space-Time Block Coding MIMO OFDM Wireless Networks	Dr. A maheswara Reddy	(TIJER)	2349-9249
29	Fingerprint Based Advanced Voting Machine	V. Phani Bhushan	(IJNRD)	2456-4184
30	Design Of Substrate Integrated Waveguide Components By Using CST Software	Dr. R. Ranjit Kumar	(TIJER)	2349-9249
31	RFID Based Petrol pump Automation System	P. Shalini	(IJNRD)	2456-4184

32	Efficient Approach to Design Full Adder Using Domino Logic Technique	M. Surekha	(IJETMS)	2581-4621
33	Adiabatic Logic for Low Power in Approximate Full Adders	J. Sujitha	(JETIR)	2349-5162
34	The Z-Wave Home Automation Protocol and Its Security Flaws	A. Suman Kumar Reddy	(AES)	2096-3246
35	The Z-Wave Home Automation Protocol and Its Security Flaws	P. Srinivasula	(AES)	2096-3246
36	The Z-Wave Home Automation Protocol and Its Security Flaws	A. Siva Phani Krishna Sharma	(AES)	2096-3246
37	Enhancing Routing in Wireless Networks with a Synthetic Bee Colony Optimization Algorithm	Dr. M. Venkatesan	(AES)	2096-3246
38	Enhancing Routing in Wireless Networks with a Synthetic Bee Colony Optimization Algorithm	P. Venkateswarlu	(AES)	2096-3246
39	Enhancing Routing in Wireless Networks with a Synthetic Bee Colony Optimization Algorithm	C.V.Kavya Suvarchala	(AES)	2096-3246
40	The Use of a Smart Phone's Speaker-independent Recognition Engine as an Electronic Wheelchair Controller: a Case Study	P. Sasitha	(IJCNWC)	2250-3501

FACULTY APPRECIATIONS

A Ph.D or Doctorate is the greatest level of education possible. This is much more than a degree. It is one of the finest fruits anyone in the field of education receives after years of endeavor. Here, perseverance is essential. It reveals your persistence. For the rest of your life, you will be highly regarded and recognized for your accomplishment and degree. Congratulations on earning your Ph.D or Doctorate!

The management, principal, and faculty of the ECE Department at PBR VITS congratulate Hartley on receiving the doctorate.

NPTEL COURSES

1. NPTEL Certificate Course entitled "Embedded Systems Design" authored by Mrs Jabeena Shaik, Assistant Professor, Department of ECE during Jan-Apr 2023, from IIT Kharagpur.

2. NPTEL Certificate Course entitled "Embedded Systems Design" authored by Mrs. C V Kavya Suvarchala, Assistant Professor, Department of ECE during Jan-Apr 2023, from IIT Kharagpur.

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 Examinations for the A.Y. 2022-2023, conducted by P.B.R. VISVODAYA INSTITUTE OF TECHNOLOGY & SCIENCE (AUTONOMOUS).

(I B. TECH, I-SEM, 2022 BATCH)

I B. Tech, I-Sem				
S. No	Roll Number	Name	Percentage(%)	Rank
1	22731A04162	MEDARAMETLA JARSHINI	97.13	I
2	22731A04020	PATHAN AFREEN AZEHAR	95.88	II
3	22731A04234	THIRUMURU BHANU PRAKASH	95.13	III

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

II B. Tech, I-Sem				
S. No	Roll Number	Name	Percentage(%)	Rank
1	21731A0410	CHINTHAPATI ANJALI	93.76	I
2	21731A04F6	KONDA MANJU	93.23	II
3	21731A04C9	YANAMALA DIVYA	92.47	III

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 Examinations for the A.Y. 2022-2023, conducted by JNTUA, Ananthapur.

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

III B. Tech, I-Sem				
S. No	Roll Number	Name	Percentage(%)	Rank
1	20731A0428	KOMMI PALLAVI	92	I
2	20731A0429	KASUKURTHI AMULYA	87.8	II
3	20731A0451	UPPALA ANUPAMA	87	III

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

IV B. Tech, I-Sem				
S. No	Roll Number	Name	Percentage(%)	Rank
1	19731A04C1	ERRAJONNALA KUMAR	85.8	I
2	19731A0459	MADDINENI GEETHA	85.6	II
3	19731A0472	SHAIK JAVIDBASHA	85.3	III

GUEST LECTURES

HIGHER STUDIES IN ABROAD

The Guest Lecture was organized by the department of ECE on "HIGHER STUDIES IN ABROAD" which is held on 09.03.2022. In this program 150 students and 02 faculty members were attended. The experts for this program are Mrs. Vasavi Tiriveedhi, Managing Director ASPIRE pro consulting Hyderabad. Delivered Lecture on Higher Studies in Abroad.

Resource person Vasavi Tiriveedhi started Guest Lecture by introducing herself and explains various opportunities to study higher studies in Abroad. She continued her guest lecture by telling how to get scholarship, visa etc., We thoroughly enjoyed the guest lecture. By attending the Guest lecture, we know what are the various opportunities to study higher studies in Abroad.

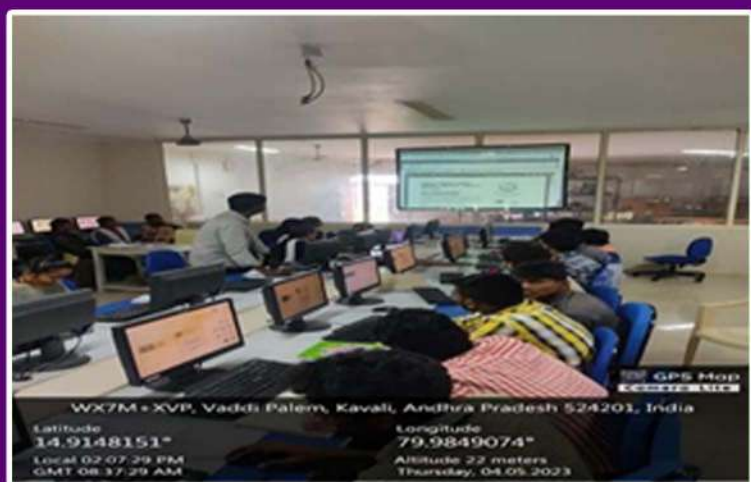## RECENT TRENDS IN WIRELESS COMMUNICATION

The Guest Lecture was organized by the department of ECE on "RECENT TRENDS IN WIRELESS COMMUNICATION" which is held on 28.04.2023. In this program 150 students and 04 faculty members were attended. The experts for this program are Dr S. Narayana Reddy, Dean Faculty of Engineering V University ,Tirupati. Delivered Lecture on Recent Trends in Wireless Communication.

Resource person Dr. S Naryana Reddy started Guest Lecture by introducing himself and explains the difference between wired communications & Wireless communications. He continued his guest lecture by explaining recent wireless communication systems & their applications. He also motivated the students towards research work in wireless communications.

BUILDING AND ANALYZING CIRCUITS USING ONLINE

The Guest Lecture was organized by the department of ECE on "BUILDING AND ANALYZING CIRCUITS USING ONLINE" which is held on 28.04.2023. In this program 150 students and 04 faculty members were attended. The experts for this program are Mr. P. Yoganandham, Senior R&D Embedded Engineer, Electro Systems Associates Ltd, Bangalore. Delivered Lecture on Building and analyzing circuits using online.

Resource person P. Yoganandham started Guest Lecture by introducing himself and explains Basic in electronics. He continued his guest lecture by telling importance of sensors & their uses in day-to -day life. He also explained about relays timers, power supplies, etc.

FUTURE&GROWTH OF SEMICONDUCTOR INDUSTRY IN INDIA

The Guest Lecture was organized by the department of ECE on "FUTURE&GROWTH OF SEMICONDUCTOR INDUSTRY IN INDIA" which is held on 24.06.2023. In this program 150 students and 03 faculty members were attended. The experts for this program are delivered Lecture on "Future & Growth of semiconductor Industry in India".

Resource person Dr. Vikram Kumar Pudi started Guest Lecture by introducing himself and explains various opportunities to join in Semiconductor industry. He continued his guest lecture by telling types of semiconductors and their designing steps and semiconductors in secure communications

UNDER WATER COMMUNICATION SYSTEM

The Guest Lecture was organized by the department of ECE on "UNDER WATER COMMUNICATION SYSTEM" which is held on 28.06.2023. In this program 150 students and 02 faculty members were attended. The experts for this program are delivered Lecture on "Under Water Communication System".

Resource person Mr. S. Rambabu started Guest Lecture by introducing himself and explains various technologies present in under water communications. He continued his guest lecture by how under water communication systems used in industries.

CERTIFICATE COURSES

PROGRAMMING ARDUINO

A Certificate Course was organized by the department of ECE on" PROGRAMMING ARDUINO" on behalf of Technical Skill Trainers, APSSDC, Andhra Pradesh which is held from 20.03.2023 to 26.03.2023. In this program 70 students and 03 faculty members were attended. Technical Skill Trainers, APSSDC, Andhra Pradesh delivered lecture an importance of PROGRAMMING ARDUINO.

Resource person SK. Aashik started Certificate Course by introducing himself and explains what the importance of Arduino Programming is in embedded systems now a day. He continued performing some activities to improve the student's confidence on ARDUINO. He also explains the use of python in ARDUINO. He also explains some basic projects like blinking LED, Home Automation.

SMART SENSORS

A Certificate Course was organized by the department of ECE on "SMART SENSORS" on behalf of Technical Skill Trainers, APSSDC, Andhra Pradesh which is held from 27.03.2023 to 01.04.2023. In this program 80 students and 02 faculty members were attended. The experts for this program Mr. P. Yoganandham from APSSDC, Andhra Pradesh delivered lecture to improve the students regarding of Types of sensors & Their Applications.

Resource person P. Yoganandham started certificate course by introducing himself and explains what is the importance of Sensors now a days. He continued performing some activities to improve the student's confidence on sensors using Embedded C program. He also explains the difference between Microprocessors & Micro controllers. He performs some basic operations using sensors. He explains different types of sensors & how to interface them.

FUNDAMENTALS OF JAVA PROGRAMMING

A Certificate Course was organized by the department of ECE on "FUNDAMENTALS OF JAVA PROGRAMMING" on behalf of Technical Skill Trainers, APSSDC, Andhra Pradesh which is held from 05.05.2023 to 10.05.2023. In this program 80 students and 02 faculty members were attended. The experts for this program Mr. P. Yoganadham from APSSDC, Andhra Pradesh delivered lecture on importance of java programming.

Resource person P. Yoganandham started certificate course by introducing himself and explains what is the importance of JAVA programming. He continued performing some examples to improve the student's knowledge on Exception handling. He also explains the what is meant by Multi-threading, JAVA Framework. He explains GUI programming with strings.

SOFT SKILLS

A Certificate Course was organized by the department of ECE on "SOFT SKILLS" on behalf of Technical Skill Trainers, APSSDC, Andhra Pradesh which is held from 12.05.2023 to 17.05.2023. In this program 100 students and 02 faculty members were attended. The experts for this program Mr. P. Chaitanya from APSSDC, Andhra Pradesh delivered lecture to improve the students ideology towards Communication Skills, Personality skills.
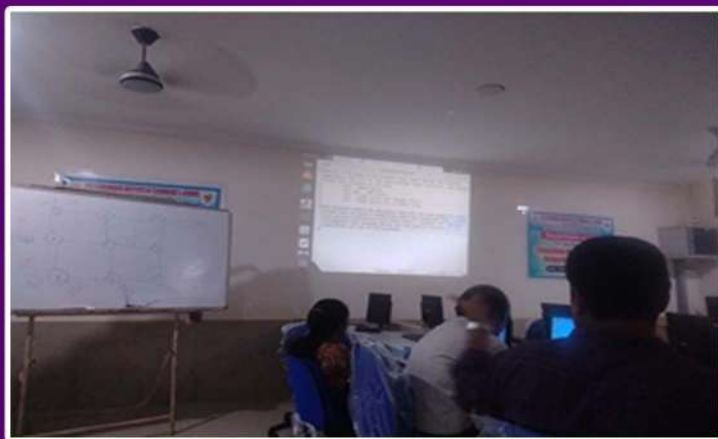
Resource person P. Chaitanya started Speech by introducing himself and explains the skills required to get the jobs in top level companies. He continued performing activities like Group discussions, mock interviews and some stage activities to improve the student's self- confidence. He continued performing some activities to improve inter personality skills. These can include good communication and interpersonal skills, leadership, problem solving, your work ethic, time management and team work.

WORKSHOPS

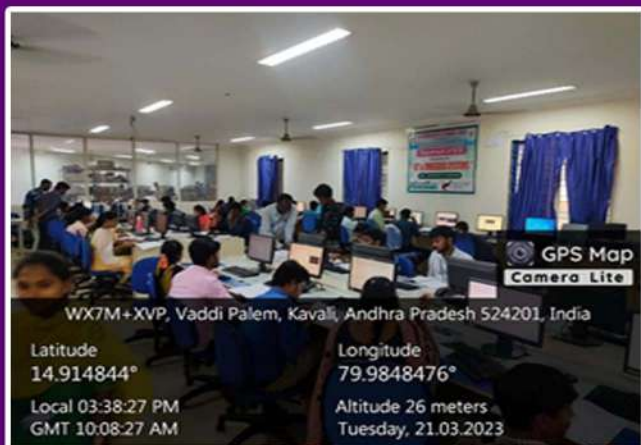## SIMULATION OF COMMUNICATION NETWORKS THROUGH NS2

The workshop was organized by the department of ECE on "SIMULATION OF COMMUNICATION NETWORKS THROUGH NS2". In this program 65 students and 02 faculty members were attended. Dr. T S Pradeep Kumar has speech and explains importance of the Communication networks using NS2 Tool.

Resource person Dr. T S Pradeep Kumar started Workshop by introducing himself and explains what is meant by Data communications. He explains Discrete Event Simulation. He also explains Discrete Event Simulation Tools - ns2/ns3. He continued performing some activities to improve the student's confidence on NS2 tool.

IOT & EMBEDED SYSTEMS

The workshop was organized by the department of ECE on "IOT & EMBEDDED SYSTEMS". In this program 75 students and 02 faculty members were attended. This program was conducted on 20, 21&23 march 2023.

Resource person Y. BHASKAR started Workshop by introducing himself and explains what is the importance of IOT now a day. He continued performing some activities to improve the student's confidence on IOT& Embedded systems. He also explains the difference between Microprocessors & Micro controllers. He also performs some projects on embedded systems & IOT.

INTEGRATION SENSORS & EMBEDDED C PROGRAMMING USING ARDUINO MCU ON ONLINE SIMULATOR

The workshop was organized by the department of ECE on "INTEGRATION SENSORS & EMBEDDED C PROGRAMMING USING ARDUINO MCU ON ONLINE SIMULATOR". In this program 80 students and 02 faculty members were attended. This program was conducted on 10, 11 &13 march 2023.

Resource person P. Yoganandham started Workshop by introducing himself and explains what is the importance of IOT now days. He continued performing some activities to improve the student's confidence on IOT sensors using Embedded C program. He also explains the difference between Microprocessors & Micro controllers.

INTERNATIONAL CONFERENCE

INTERNATIONAL CONFERENCE ON RECENT ADVANCES IN COMMUNICATION AND ELECTRONICS (ICRACE-2023)

"INTERNATIONAL CONFERENCE ON RECENT ADVANCES INCOMMUNICATION AND ELECTRONICS (ICRACE-2023)" was organized by the department of ECE on 24th June 2023. This program was conducted in hybrid mode (both online and offline), 63 members have attended in this program resource persons are Dr. Vikram Kumar Pudi, Assistant Professor, Department of EEE, IIT, Tirupati as a Chief Guest and Dr. D. Vijendra Babu, SENSE, VIT, Vellore Honorary Secretary, IETE Chennai Centre as a Key Note Speaker.

FACULTY DEVELOPMENT PROGRAM

RECENT TRENDS IN ELECTRONICS & COMMUNICATIONS: ADVANCES IN DEVICE MODELLING AND SIGNAL CONDITIONING

A Five-day Faculty Development Program on "Recent Trends in Electronics & Communications: Advances in Device modelling and Signal Conditioning" was organized by the department of ECE in association with Faculty Development Cell, JNTUA, Anantapuramu from 26th June to 30th June 2023. In this program 30 members have attended in this program resource persons are Dr. Vikram Kumar Pudi Assistant Professor, Department of Electrical Engineering, IIT, Tirupathi, Andhra Pradesh, Dr. S. Narayana Reddy Professor in ECE, Sri Venkateswara University, Tirupati, Andhra Pradesh, Dr. M. Durga Rao Scientist and Head, Radar Applications and Development Group at National Atmospheric Research Laboratory (NARL), Department of Space, Tirupati, Andhra Pradesh. Dr. Rajnarayan De Scientific Officer-D, Bhabha Atomic Research Center, Visakhapatnam, Mr. Jagannadha Raju SVDS Scientific Officer-F, Bhabha Atomic Research Center, Visakhapatnam, Andhra Pradesh, Mr. S. Rambabu Scientist-E, Naval Science & Technological Laboratory, Visakhapatnam, Andhra Pradesh and Prof T Kishore Kumar Senior Professor, Department of ECE, NIT Warangal, Telangana.

CLUB ACTIVITIES

ANTHYAKSHARI

The Anthyakshari was organized by the department of ECE which is held on 10.03.2023. In this program 40 students (10 Batches) were attended. The expert for this program was Dr. V. Prakasam from ECE Department of our college. This event was conducted in D-105 and timings 2:30pm-3:30pm. Here conducted by two rounds and each team would be asked 4 questions.

This event was organized to recognize and develop the talent of students. The students enjoyed singing the songs with rules. The competition had a total of 3 rounds. The event was conducted in a team of 4 students. Each Contestant sings the first verse of the song on which the previous contestant's songs selection ended. There was huge excitement among participants

There are 10 teams (40 students) have registered and 10 teams (40 students) participated in the event. All participants reported at the venue at 2:20 PM sharp. All of them came well prepared and looked very confident. Facilities required for Conduction of the event are Class Room, and Audio System. Facilities provided by the Organizers are Class Room, and Audio System.

WINNER NOTIFICATION

S.NO	NAME AND ROLL NUMBER OF THE STUDENTS	POSITION
1	V MYTHILI- 20731A04B	1st Prize
	H SRUTHI- 20731A0480	
	G SIVA PRIYA- 20731A0479	
	G NANDINI- 20731A0476	
2	SK ALIYAZ- 20731A04C6	2nd Prize
	M S AKHIL- 20731A0496	
	B V RAJKUMAR- 20731A04C7	
	D MOHANA PRIYA- 20731A04D3	

TECHNICAL QUIZ

The Technical Quiz was organized by the department of ECE which is held on 10.03.2023. In this program 28 students (7 Batches) were attended. The expert for this program was Dr. V. Prakasam from ECE Department of our college. This event was conducted in D-105 and timings 1:20pm-3:00pm. Total Number of Rounds are Round 1 – Final Round. Each team would be asked 4 questions each.

Electronics and Communication Engineering (ECE) Department organizes the Event "Technical Quiz" in Hobby Club. The main goal of this event is to enhance communication skill, team work and technical knowledge of students and also it develops the confidence in student to express their knowledge. The event of Technical Quiz Competition organized on 10th March 2023 and the Judge for this event was Dr. V. Prakasam from ECE Department of our college. The total number of students participated was 28. Facilities required for Conduction of the event are Projector, Wireless mic. Facilities provided by the Organizers are Projector, Wireless mic.

WINNER NOTIFICATION

S. NO	NAME AND ROLL NUMBER OF THE STUDENTS	POSITION
1	O JAHNAVI EFRAYEM- 20731A04A2 V SANDHYA- 20731A04B8 T SOWMYA- 20731A04B4 M POOJITHA- 20731A0491	1st Prize
2	B LAVANYA- 20731A0406 C PRATHYUSHA- 20731A0410 J SAILAJA- 20731A0425 K AMULYA- 20731A0429	2nd Prize

ESSAY WRITING

The Essay Writing was organized by the department of ECE which is held on 24.03.2023. In this program 17 students were attended. The was Global warming-the ensuring danger. The expert for this program was P. Raj Kumar from S&H department of our college. This event was conducted in D-105 and timings 2:30pm-3:30pm.

Electronics and Communication Engineering (ECE) Department organizes the Event "Essay Writing" in Hobby Club. The main goal of this event is to enhance communication skill and technical knowledge of students and also it develops the confidence in student to express their knowledge. The event of Essay writing Competition organized on 24th March 2023 and the Judge for this event was P. Raj Kumar from S&H Department of our college. The total number of students participated was 17. Facilities required for Conduction of the event: Stationary, Classroom, Facilities provided by the Organizers are Classroom, Stationary.

WINNER NOTIFICATION

S. NO	NAME AND ROLL NUMBER OF THE STUDENTS	POSITION
1	M SHIFA BAIG – 21731A0492	1st Prize
2	M BHARGAVI-20731A0497	2nd Prize

STANDUP COMEDY

The Standup Comedy was organized by the department of ECE which is held on 24.03.2023. In this program 10 students were attended. This event was conducted in D-105 and timings 1:20pm-3:00pm.

This event was organized to recognize and develop the talent of students. The students enjoyed this event very well. There was huge excitement among participants. Facilities required for Conduction of the event are Class Room, and Audio System. Facilities provided by the Organizer are Class Room, and Audio System.

WINNER NOTIFICATION

S. NO	NAME AND ROLL NUMBER OF THE STUDENTS	POSITION
1	D Hardik – 21731A0412	1st Prize
2	G V N Sai Krishna- 19731A0486	2nd Prize

PLACEMENT SUMMARY

S.NO	NAME OF THE COMPANY	NUMBER OF STUDENTS SELECTED
1	SKOLAR EDTEC PVT LTD	20
2	RENEW POWER	5
3	VIRTUSA	4
4	OPEN FINANCIAL TECHNOLOGIES	2
5	TECHOUTS	3
6	VODAPHONE	15
7	SMARTSOCS	1
8	INFOMERICA	2
9	DXC TECHNOLOGIES	43
10	TVARANA SOFTWARE SOLUTIONS	2
11	BIG WORKS	2
12	SNOVASYS	3
13	ASHILING PARTNERS	2
14	IBS SOFTWARE	7
15	CADSYS	8
16	ALTEN	10
17	JASMIN INFOTECH	4
18	TCS	8
19	TECH MAHINDRA	1
20	ASTRA MICROWAVE	4
21	HIDDEN BRAINS	6
22	SPR HUMAN CAPITAL SOLUTIONS	7
	TOTAL	**159**

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