ELECTRONICA Newsletter

VOLUME 10   **JUL - DEC 2023**

DEPARTMENT OF
ELECTRONICS AND COMMUNICATION ENGINEERING

Editorial Board Members

Department of Electronics And Communication Engineering

ELECTRONICA

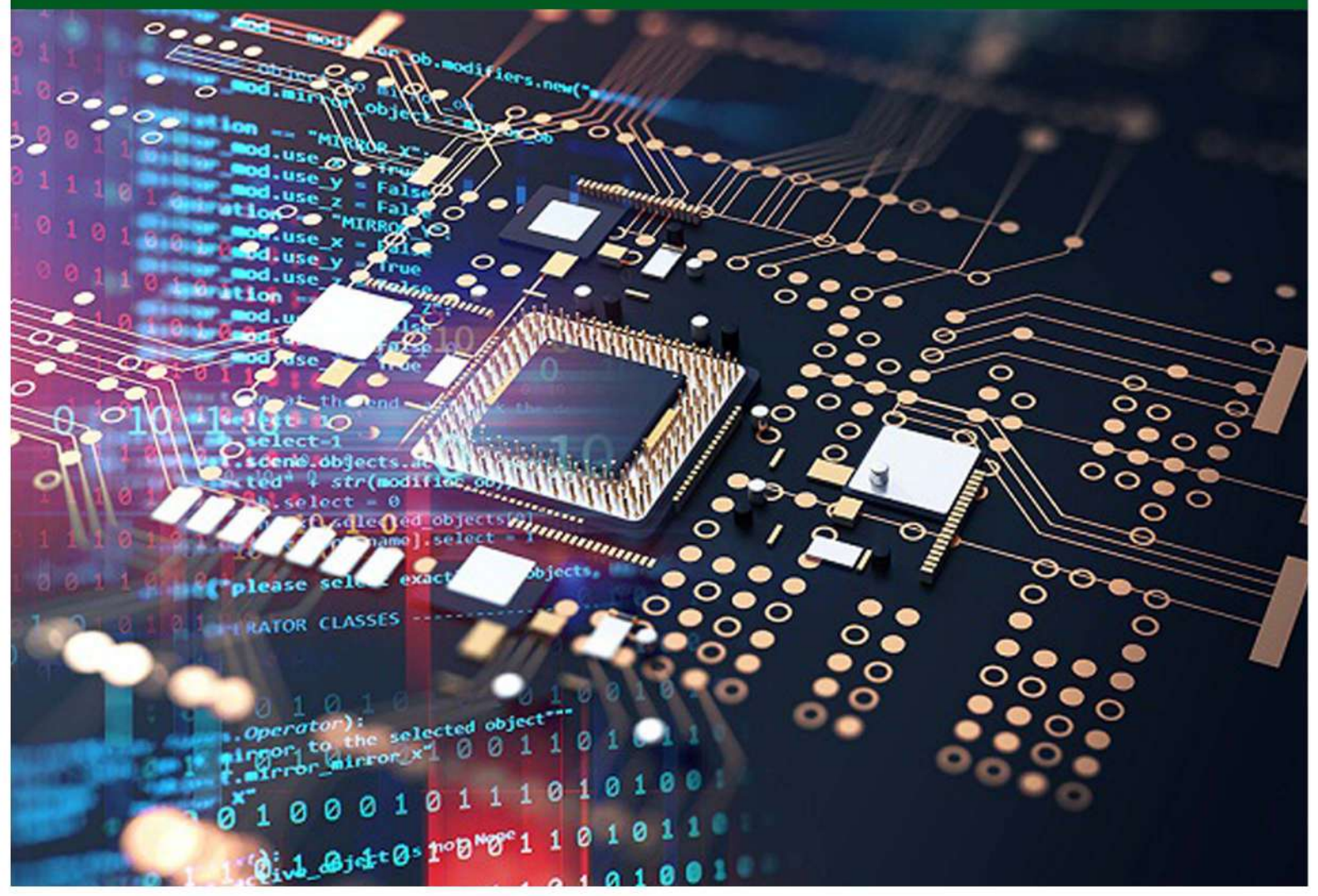## NEWSLETTER

JUL - DEC 2023

EDITORIAL BOARD

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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 12 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
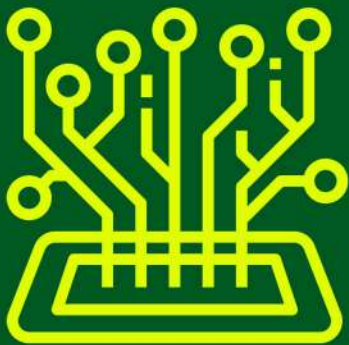
ECE

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

College Website: **www.pbrvits.ac.in**

FACULTY DETAILS

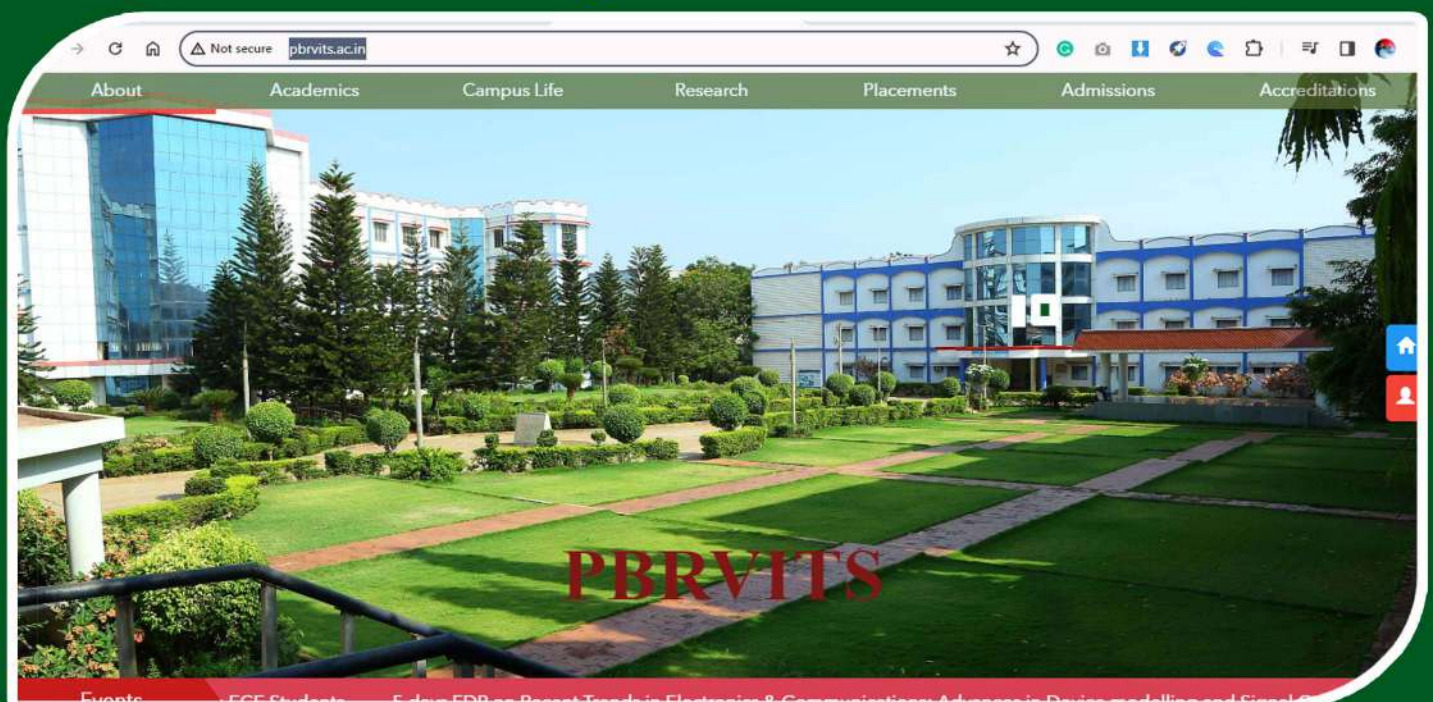| S.NO.	NAME	DESIGNATION	QUALIFICATION
1	Dr D PRATHYUSHAREDDI	Professor	ME/M. Tech and PhD
2	Dr A MAHESWARA RAO	Professor	ME/M. Tech and PhD
3	Dr M VENKATESAN	Professor	ME/M. Tech and PhD
4	Dr V PRAKASAM	Professor	ME/M. Tech and PhD
5	Dr MD HAYATH RAJVEE	Professor	ME/M. Tech and PhD
6	Dr N SATHEESH KUMAR	Professor	ME/M. Tech and PhD
7	Dr S PENCHALA REDDY	Professor	ME/M. Tech and PhD
8	Dr S M LAKSHMI SRI	Professor	ME/M. Tech and PhD
9	Dr R SRAVANTHI	Associate Professor	ME/M. Tech and PhD
10	Dr D LIKHITH REDDY	Associate Professor	ME/M. Tech and PhD
11	Dr R RANJIT KUMAR	Associate Professor	ME/M. Tech and PhD
12	Dr S GIRISH GANDHI	Associate Professor	ME/M. Tech and PhD
13	A SUMAN KUMAR REDDY	Assistant Professor	M.E/M. Tech
14	R S PRATAP SINGH	Assistant Professor	M.E/M. Tech
15	V PHANI BHUSHAN	Assistant Professor	M.E/M. Tech
16	A VENKA REDDY	Assistant Professor	M.E/M. Tech
17	M RAMA MOHAN REDDY	Assistant Professor	M.E/M. Tech
18	G MANGA RAO	Assistant Professor	M.E/M. Tech
19	V NARAYANA REDDY	Assistant Professor	M.E/M. Tech
20	G MALYADRI	Assistant Professor	M.E/M. Tech
21	C V KAVYA SUVARCHALA	Assistant Professor	M.E/M. Tech
22	SK NAJMA SULTHANA	Assistant Professor	M.E/M. Tech
23	V ANJAIAH	Assistant Professor	M.E/M. Tech
24	P VENKATESWARLU	Assistant Professor	M.E/M. Tech
25	K PENCHALAIAH	Assistant Professor	M.E/M. Tech
26	SK JABEENA	Assistant Professor	M.E/M. Tech
27	SK RASOOL	Assistant Professor	M.E/M. Tech
28	CH PAVAN KUMAR	Assistant Professor	M.E/M. Tech
29	J SUJITHA	Assistant Professor	M.E/M. Tech
30	K UMA	Assistant Professor	M.E/M. Tech
31	M VENKATARATHNAM	Assistant Professor	M.E/M. Tech
32	P SWATHI	Assistant Professor	M.E/M. Tech
33	V LAKSHMI	Assistant Professor	M.E/M. Tech
34	K S BHANU REKHA	Assistant Professor	M.E/M. Tech

35	M SUREKHA	Assistant Professor	M.E/M. Tech
36	M PAVITRA	Assistant Professor	M.E/M. Tech
37	A SRINIVASA RAO	Assistant Professor	M.E/M. Tech
38	G SIVANJANEYA REDDY	Assistant Professor	M.E/M. Tech
39	V BHARATH KUMAR	Assistant Professor	M.E/M. Tech
40	L M L NARAYANA REDDY	Assistant Professor	M.E/M. Tech
41	L VASU	Assistant Professor	M.E/M. Tech
42	M SREEHARI	Assistant Professor	M.E/M. Tech
43	P SRINIVASULU	Assistant Professor	M.E/M. Tech
44	P SASITHA	Assistant Professor	M.E/M. Tech
45	G V S BHARADWAJ	Assistant Professor	M.E/M. Tech
46	SK JAGADEESH BABU	Assistant Professor	M.E/M. Tech
47	P SHALLINI	Assistant Professor	M.E/M. Tech
48	A SIVA PHANI KRISHNA SHARMA	Assistant Professor	M.E/M. Tech
49	SD SHAMAR SULTHANA	Assistant Professor	M.E/M. Tech
50	K RAVI BABU	Assistant Professor	M.E/M. Tech
51	M S NAVYA	Assistant Professor	M.E/M. Tech
52	P BRAHMAIAH	Assistant Professor	M.E/M. Tech
53	K RAVI CHANDRA	Assistant Professor	M.E/M. Tech
54	K ASHOK KUMAR	Assistant Professor	M.E/M. Tech
55	M MADHULIKA	Assistant Professor	M.E/M. Tech
56	SHAIK RIZWAN	Assistant Professor	M.E/M. Tech
57	CH SIREESHA	Assistant Professor	M.E/M. Tech
58	D UMA MAHESWARA REDDY	Assistant Professor	M.E/M. Tech
59	R VENKATESWARLU	Assistant Professor	M.E/M. Tech
60	N CHINNA BABU	Assistant Professor	M.E/M. Tech

FACULTY PUBLICATIONS

S. No.	Title of paper	Name of the author/s	Name of journal	ISSN number
1	A CRC-Based Finite Field Multipliers Design For Cryptography	Dr. N. Satheesh Kumar	Journal of Engineering Sciences	0377-9254
2	A Compact Micro-strip Circular Ring Antenna for Triple Band Applications	Dr. S. Penchala Reddy	Telecommunications and Radio Engineering	0040-2508
3	Design of Powe And Area Efficient CSLA Based Multiplier for Gaussian Filter	Dr. R. Sravanthi	Turkish Journal of Computer and Mathematics Education	1309-4653

4	Design of Area Efficient, High Speed 16-bit Borrow Select Subtractor	Dr. R. Ranjith Kumar	Compliance Engineering Journal	0898-3577
5	Design of high speed 16-bit Fixed-Width Booth Multipliers Using Data Scaling Technology	C.V Kavya Suvarchala	Compliance Engineering Journal	0898-3577
6	Flood Monitoring System Using Internet of Things	Dr. R. Sravanthi	Industrial Engineering Journal	0970-2555
7	64-Bit Tunable Random Number Generation Using Coupled Quantum Dots Technology	Dr. R. Sravanthi	Compliance Engineering Journal	0898-3577
8	Design of efficient 32 bit BCD adder using quantum dot cellular automata	A. Srinivasa Rao	Compliance Engineering Journal	0898-3577

NPTEL COURSES

1. NPTEL Certificate Course entitled "Digital Circuits" authored by Mrs. Jabeena Shaik, Assistant Professor, Department of ECE during Jul-Oct 2023, from IIT Kharagpur and stood topper in the course.

2. NPTEL Certificate Course entitled "Computer Architecture" authored by Mrs. Jabeena Shaik, Assistant Professor, Department of ECE during Jul-Oct 2023, from IIT Madras and stood topper in the course.

3. NPTEL Certificate Course entitled "Computer Architecture" authored by Mrs. C V Kavya Suvarchala, Assistant Professor, Department of ECE during Jul-Oct 2023, from IIT Madras.

4. NPTEL Certificate Course entitled "Research Methodology" authored by Mrs. M. Surekha, Assistant Professor, Department of ECE during Aug-Oct 202, from IIT Madras.

5. NPTEL Certificate Course entitled "VLSI Design Flow: RTL to GDS" authored by Mrs. M. Surekha, Assistant Professor, Department of ECE during Jul-Oct 202, from IIT Delhi.

6. NPTEL Certificate Course entitled "Microwave Engineering" authored by Mr. A. Srinivasa Rao, Assistant Professor, Department of ECE during Jul-Oct 2023, from IIT Madras.

7. NPTEL Certificate Course entitled "Digital Circuits" authored by Mr. Sk. Rasool, Assistant Professor, Department of ECE during Jul-Oct 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, II-SEM, 2022 BATCH)

I B. Tech, II-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, II-SEM, 2021 BATCH)

II B. Tech, II-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, II-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, II-SEM, 2019 BATCH)

IV B. Tech, II-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

CAREER OPPORTUNITIES IN VLSI DESIGN

The Guest Lecture was organized by the department of ECE on "Career Opportunities in VLSI Design" which is held on 23-11-2023 in this program 100 students and 02 faculty members were attended. The expert for this program is Mr. Madan Gopal Mekala, Eminent speaker, Swami Vivekananda Centre, SPSR Nellore and delivered Lecture on Career Opportunities in VLSI Design.

Resource person Mr. Madan Gopal Mekala started Guest Lecture by introducing himself and explain Importance of VLSI Design for electronics engineering graduates. He continued giving inputs about the self-learning content available in open source. Very-Large-Scale Integration (VLSI) is the process of combining millions of transistors on a single chip to create integrated circuits (ICs). VLSI is important in today's world because it powers electronic devices, improves computing capabilities, and more.

CERTIFICATE COURSES

IMAGE & VIDEO PROCESSING

A Certificate Course was organized by the department of ECE "Image & Video Processing" which is held from 7-10-2023 to 12-10-2023. In this program 60 students and 03 faculty members were attended. The experts for this program are Mr. P Yoganandham Senior Embedded Engineer, Padmavathi IOT Solutions, Tirupati and Mr. P Jayasurya Reddy, Embedded Engineer, Spark Labs, Tirupati.

Resource person Mr. P Yoganandham, started speech by introducing himself and explain the need of spatial and frequency domain techniques for image compression. Basic knowledge of image and video processing is essential to engineers. This course attempts to provide refreshing of the fundamentals of image and video processing and hands on for these subjects. It will also provide an exposure to the specific application areas like image analysis, handwriting recognition, speech processing etc.

CLOUD COMPUTING

The Certificate course was organized by the department of ECE on "Cloud Computing" which is held from 3-11-23 to 8-11-23. In this program 70 students and 02 faculty members were attended the resource persons for Cloud Computing certificate course. Mr. P Jayasurya Reddy, Embedded Engineer, Spark Labs, Tirupati and Mr. P Jeevan Kumar, Software analyst, Padmavati IOT solutions, Tirupati.

Resource person Mr. P Jayasurya Reddy, started speech by introducing himself and this course gives students an overview of the field of Cloud Computing, its enabling technologies, main building blocks, and hands-on experience through projects utilizing public cloud infrastructures (Amazon Web Services (AWS) and Microsoft Azure). Cloud computing services are being adopted widely across a variety of organizations and in many domains. Simply, cloud computing is the delivery of computing as a service over a network, whereby distributed resources are rented, rather than owned, by an end user as a utility. The course will introduce this domain and cover the topics of cloud infrastructures, virtualization, software defined networks and storage, cloud storage, and programming models.

IMAGE PROCESSING WITH PYTHON

The Workshop was organized by the department of ECE on "IMAGE PROCESSING WITH PYTHON". In this program 60 students and 02 faculty members were attended the resource person for this program is Mr. P. Yoganandham, Senior Embedded Engineer, Padmavathi IOT Solutions, Tirupati.

Resource person Mr. P Yoganandham started Workshop by introducing himself and explains how Image Processing is one of the areas of Data Science and has a wide variety of applications in the industries in the current world. Many industries looking for a Data Scientist with these skills. Jump into digital image structures and learn to process them! Extract data, transform and analyze images using NumPy and Scikit-image. With just a few lines of code, you will convert RGB images to grayscale, get data from them; obtain histograms containing very useful information, and separate objects from the background!

SMART SENSORS

A Certificate Course was organized by the department of ECE on "SMART SENSORS" on which is held from 14-11-23 to 19-11-23. In this program 70 students and 02 faculty members were attended. The experts for his program Mr. P. Yoganandham from Mr. P Yoganandham, CEO, IOT Padmavathi solutions, Tirupati. Mr. P. Jeevan Kumar, Software analyst, Padmavati IOT solutions, Tirupati delivered lecture to improve the students regarding of Types of sensors & Their Applications.


Resource person Mr. P Yoganandham, started speech by introducing himself and explain about the importance of smart sensors. This course will talk about sensors and their fundamentals. Technology is not just for the design process, but is becoming an integrative part of Landscape Architecture Design. Sensors represent a tremendous opportunity to augment sustainable design and behavior for environmental monitoring. They can be used for a wide variety of sustainable design uses. This course discusses the basics of sensors, how they work, types of sensors, and how they can be used in design.

WORKSHOPS

PRACTICAL EXPLOITATION OF IOT WIRELESS PROTOCOLS

The Workshop was organized by the department of ECE on "Practical Exploitation of IOT Wireless Protocols". In this program 60 students and 02 faculty members were attended the resource person for this program is Mr. P. Jayasurya Reddy, Embedded Engineer, Spark Labs, Tirupati.
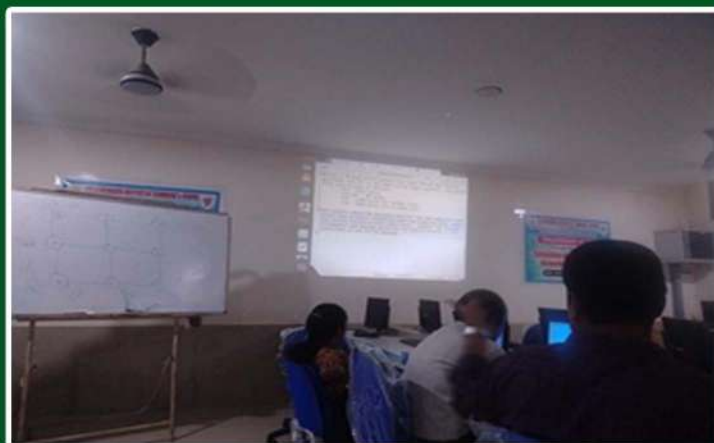
Resource person Mr. P. Jayasurya Reddy started Workshop by introducing himself and explains how Internet of Things is a widely adopted and pervasive technology, but also one of the most relevant in cyber-security, given the volume and sensitivity of shared data and the availability of affordable but insecure products.

CLUB ACTIVITIES

TREASURE HUNT-1

This event was organized to recognize and develop the talent of students. This event was conducted for 2nd and 3rd year B. tech students on 27-09-2023. A treasure hunt is all about looking for something and then finding it. An outdoor treasure hunt game encourages students to be active and to explore. A treasure hunt is a fun and satisfying experience for students. There was huge excitement among participants. There are 12 batches have registered and participated in the event. All participants reported at the venue at 3:00 PM sharp. All of them came well prepared and looking for treasure.

WINNER NOTIFICATION

S.NO	NAME AND ROLL NUMBER OF THE STUDENTS	POSITION
1	CH. RAJESH – 21731A04K4	1st Prize
	CH. VISHNU VARDHAN – 21731A4K9	
	VINOD KUMAR REDDY – 21731A04N2	
	VISHNU VARDHAN – 21731A04L6	
2	PRAMESHWAR – 2273A04018	2nd Prize
	TRIMURTHI - 2273A04012	
	TRIVENI - 2273A04015	
	DHANASRI - 2273A04014	

TREASURE HUNT -2

This event was organized to recognize and develop the talent of students. This event was conducted for 1st year B. tech students on 28-09-203. A treasure hunt is all about looking for something and then finding it. An outdoor treasure hunt game encourages students to be active and to explore. A treasure hunt is a fun and satisfying experience for students. There was huge excitement among participants. There are 12 batches have registered and participated in the event. All participants reported at the venue at 3:00 PM sharp. All of them came well prepared and looking for treasure.

WINNER NOTIFICATION

S. NO	NAME AND ROLL NUMBER OF THE STUDENTS	POSITION
1	G. VISHNU PRIYA - 204N1A04C2	1st Prize
	B. CHANDU SRI – 204N1A04C3	
	K. MAHITHA – 204N1A04D9	
	G. SOWMYA – 204N1A04D6	
2	E. TRIMURTHY – 2273A04012	2nd Prize
	P. DHANASRI – 2273A04014	
	K. TRIVENI REDDY – 2273A04015	
	R. PARAMESHWARA REDDY – 2273A0414	

TREASURE HUNT - 3

This event was organized to recognize and develop the talent of students. This event was conducted for 4th year B. tech students on 29-09-203. A treasure hunt is all about looking for something and then finding it. An outdoor treasure hunt game encourages students to be active and to explore. A treasure hunt is a fun and satisfying experience for students. There was huge excitement among participants. There are 12 batches have registered and participated in the event. All participants reported at the venue at 3:00 PM sharp. All of them came well prepared and looking for treasure.

WINNER NOTIFICATION

S. NO	NAME AND ROLL NUMBER OF THE STUDENTS	POSITION
1	G. VISHNU PRIYA - 204N1A04C2	1st Prize
	B. CHANDU SRI - 204N1A04C3	
	K. MAHITHA - 204N1A04D9	
	G, SOWMYA - 204N1A04D6	
2	E. TRIMURTHY - 2273A04012	2nd Prize
	P. DHANASRI - 2273A04014	
	K. TRIVENI REDDY - 2273A04015	
	R. PARAMESHWARA REDDY - 2273A0414	

ANTHYAKSHARI

The Anthyakshari was organized by the department of ECE which is held on 11.10.2023. 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	

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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