



P.S.V COLLEGE OF ENGINEERING AND TECHNOLOGY

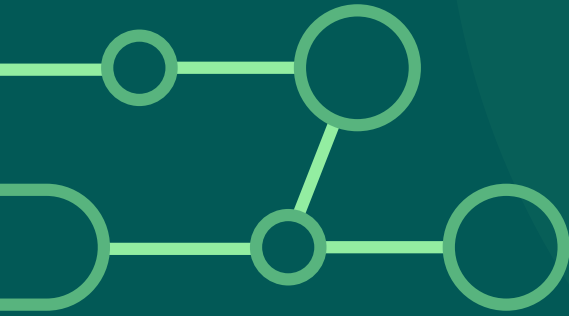


Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai

Accredited by the NAAC with 'A' Grade

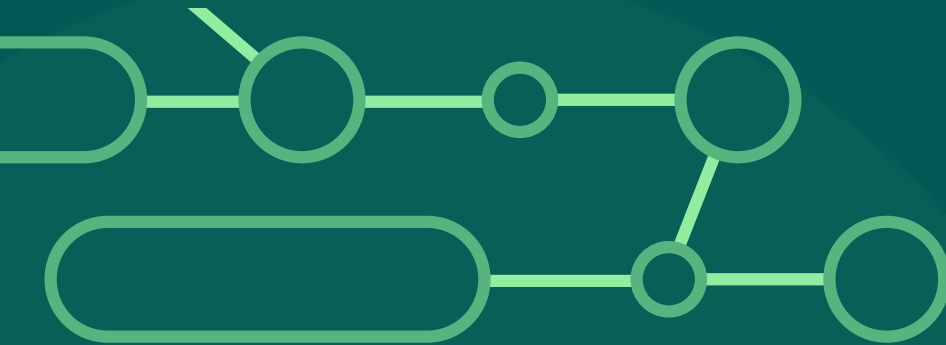
(Inclusion Under Section 2(f) and 12(B) of the UGC Act, 1956)

Chennai - Bangalore Highway - NH 46, Krishnagiri - 635 108.



TECHNICAL MAGAZINE

TEKWARZZ-2K23



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION
ENGINEERING**

www.psvcet.ac.in

VOLUME 1

VISION

- To facilitate a conducive teaching-learning atmosphere to the aspirants in the domain of Electronics & Communication and make them globally proficient, innovative and socially responsible citizen.

MISSION

- M1: To provide strong fundamental knowledge in the field of Electronics & Communication Engineering.
- M2: To prepare students with exceptional skills and make them capable to provide solutions to the global community in the field of Electronics & Communication Engineering.
- M3: To discover and disseminate knowledge through learning, research and transferring them to the Society for serving at a large.
- M4: To make the students for long-term learning to provide solutions to the new issues arise in the global environment.

PROGRAM OUTCOMES

PO1: ENGINEERING KNOWLEDGE:

Apply the knowledge of mathematics, science, engineering fundamentals, and Engineering specialization to the solution of complex engineering problems.

PO2: PROBLEM ANALYSIS:

Identify, formulate, research literature, and analyze engineering problems to arrive at substantiated conclusions using first principles of mathematics, natural, and engineering sciences.

PO3: DESIGN/DEVELOPMENT OF SOLUTIONS:

Design solutions for complex engineering problems and design system components, processes to meet the specifications with consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO4: CONDUCT INVESTIGATIONS OF COMPLEX PROBLEMS:

Use research-based knowledge including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO5: 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.

PO6: 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.

PROGRAM OUTCOMES

PO7: 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.

PO8: ETHICS: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9: INDIVIDUAL AND TEAM WORK: Function effectively as an individual, and as a member or leader in teams, and in multidisciplinary settings.

PO10: COMMUNICATION: Communicate effectively with the engineering community and with society at large. Be able to comprehend and write effective reports documentation. Make effective presentations, and give and receive clear instructions.

PO11: PROJECT MANAGEMENT AND FINANCE: Demonstrate knowledge and understanding of engineering and management principles and apply these to one's own work, as a member and leader in a team. Manage projects in multidisciplinary environments.

PO12: 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 EDUCATIONAL OBJECTIVES

PEO1 To enable graduates to pursue research, or have a successful career in academia or industries associated with Electronics and Communication Engineering, or as entrepreneurs.

PEO2 To provide students with strong foundational concepts and also advanced techniques and tools in order to enable them to build solutions or systems of varying complexity.

PEO3 To prepare students to critically analyze existing literature in an area of specialization and ethically develop innovative and research oriented methodologies to solve the problems identified.

PROGRAM SPECIFIC OBJECTIVES

PSO1: To analyze, design and develop solutions by applying foundational concepts of electronics and communication engineering.

PSO2: To apply design principles and best practices for developing quality products for scientific and business applications.

PSO3: To adapt to emerging information and communication technologies (ICT) to innovate ideas and solutions to existing/novel problems.

CHIEF PATRONS

Dr.P.SELVAM,M.A,B.Ed.,M.Phil.,Ph.D.,

(CHAIRMAN AND FOUNDER)

Dr.S.VIVEK,M.A.,EDMSL(UK),M.B.A.,(UK),Ph.D.

(SECRETARY)

PATRON

Dr.P.LAWRENCE,M.E.,Ph.D.,

(PRINCIPAL)

EDITOR-IN-CHIEF

Prof.C.THAMILARASI,M.E

(HOD/ECE)

EDITOR

Mr.M.VINODH KUMAR, AP/ECE

STUDENTS COMMITTEES

S.SANJAY, IV ECE

S.DINESH KUMAR, III ECE

send your articles to mail ID
hodece@psvcet.ac.in

Table of CONTENTS

01	Message from Chairman
02	Message from Secretary
03	Message from Principal
04	Message from HoD
05	Event of the Year
06	Random Snaps of the Event
07	Innovative Projects
08	Recent Technologies
09	E-Learning Corner
10	Students Participation & Achivements
11	Faculty NPTEL Participation
12	College Corner
13	Quiz Time
14	Word Search

MESSAGE FROM CHAIRMAN



**Dr. P. SELVAM, M.A., B.Ed., M.Phil.,
Ph.D.,**

“If you are planning for a year, sow rice; if you are planning for a decade, plant trees; if you are planning for a lifetime, educate people”

In the present socio-economic scenario of globalization, higher and technical education has come to occupy the center stage. Scientific community has been significantly converted into a round-the-world community sharing concepts, exchanging ideas and collaborating on projects with an International yardstick. Web based learning system, fast growing use of Internet, importance of video conferencing in learning and research are considered these days as a common practice in the myriad developing fields around the World.

P.S.V. College of Engineering & Technology creates technologists enlightened with value-based conduct, honesty, integrity and love for the profession. When students pass out of P.S.V. College of Engineering & Technology, they become decently trained engineers and technicians having innovative approach, love for experiments and skill in achieving their goals. P.S.V. College of Engineering & Technology-ians should have the recognition as Technical Leaders and innovators and not merely technical managers.

The watch words of the College stands for “Prosperity, Solidarity, Victory”.

MESSAGE FROM SECRETARY



**Dr.S.VIVEK, M.A., EDMSL (UK).,
MBA(UK).,Ph.D**

I am not approaching education as a business motive. According to me education means “service” . I am taking this opportunity to explore my regards for the service of the people in the form of education. Our P.S.V. College of Engineering & Technology has been surrounded by rural area which we carry the motto of pouring the knowledge of literacy to the rural background students. If a person has been well educated, it stimulates him to think in technical way with positive approach, which indirectly implicates that “Education makes the man perfect.”

According to today’s status, this world is dominated by technology. This world has been built by many creative Engineers. The fate of the future world is in the hands of today’s Engineers. From the launching of rockets to manufacturing the rubber comes from the mystical minds of Engineers. Our P.S.V. College of Engineering & Technology carries the womb of tomorrow’s Engineers who are going to play vital part to built extraordinary world.

MESSAGE FROM PRINCIPAL



**Dr.P.LAWRENCE,
PRINCIPAL**

The world has undergone a vast change and more so in the last decade. The trend is to continue and expected to be even far more unpronounced. The need to be geared up for tomorrow is far greater than ever before.

Opportunities before us are immense and the task is onerous. Thus P.S.V. College of Engineering & Technology selected an innovative and creative factor to create a hub of higher and quality education. We provide opportunities to the young generation for evolving their core competencies and building up their career as world class professionals with broad based foundation and in-depth knowledge and versatile personality to meet the challenges of the Global competition in tune with industry aspirations.

P.S.V. College of Engineering & Technology has a vision to transform the students into high quality Engineers / Managers, who may also enrich the society by their adherence to ethical culture and human values, sensitivity to environmental issues and sense of service to the society and nation. With this in mind, we will continue to march steadily towards our aim to provide responsible citizens who will participate in nation building.

MESSAGE FROM HOD



Prof.C.THAMILARASI
HoD/ECE

The perennial zeal of the Department has never left the achievements stagnant. The Department not only gives students the exposure to the regular engineering curriculum but also to the aspirations of today's corporate world, thus inculcating a professional aptitude in them. The dedication of the faculty members has strengthened the learning process ensuring an environment of collaboration, experimentation, imagination and creativity. It is such a prodigious delight in watching the students cutting edge in technical exploration, enhancing their analytical skills and brushing themselves up for the rapidly changing sector, and establishing themselves as entrepreneurs and engineers.

The Department has always reached new heights and I am looking forward to more wonders and achievements. I wish the very best to the Department of ECE for the Launch of the TEKWARZZ, the official technical magazine of the Department. The magazine beautifully provides an overview of academic programs, research activities, training and the other fields explored by our faculty members and students.

EVENT OF THE YEAR



The poster features a white background with a yellow and orange gradient at the top. It includes logos for P.S.V. College of Engineering and Technology, ISO 9001:2015, and NAAC 'A' grade accreditation. A red banner in the center reads 'DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING & TEKWARZZ CLUB'. Below this, it says 'Proudly Present A NATIONAL LEVEL TECHNICAL SYMPOSIUM TEKWARZZ - 2K23'. A photo of Mr. Selva Murali is shown with his title 'CHIEF GUEST' and his roles as CEO & Founder and Founding Editor. A 'WELCOME TO ALL' badge is also present. At the bottom, it states the venue as Vivekanandha Auditorium and the date as 3rd May 2023.

P.S.V.
COLLEGE OF ENGINEERING AND TECHNOLOGY
APPROVED BY AICTE, NEW DELHI AND AFFILIATED TO ANNA UNIVERSITY, CHENNAI
ACCREDITED BY THE NAAC WITH 'A' GARDE
(INCLUSION UNDER SECTION 2(F) & 12(B) OF THE UGC ACT, 1956) CHENNAI - BANGALORE HIGHWAY - NH 46, KRISHNAGIRI - 635 108.

ISO 9001:2015
INSTITUTION'S INNOVATION COUNCIL

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING & TEKWARZZ CLUB

Proudly Present
A NATIONAL LEVEL TECHNICAL SYMPOSIUM
TEKWARZZ - 2K23

CHIEF GUEST
Mr. SELVA MURALI
CEO & Founder (Visual Media Technologies, Clouds India) & Founding Editor (Agri Sakthi Vivasyam, Thirai - Tamil News Portal)

WELCOME TO ALL

Venue : Vivekanandha Auditorium
Date : 3rd May 2023

The Successful execution of **TEKWARZZ 2K22**, A National Level Technical Symposium, enabled the realization of the improbable. Comprising three technical and three non-technical events, its highlight was the Project Expo, elevating the entire symposium. With over 50+ registrations nationwide, the event, held on 03.05.2023, set a remarkable standard. The participants' contributions were adeptly managed, ensuring every talent was duly recognized."

Mr.SELVA MURALI(Chief Guest)

Prof.C.THAMILARASI,HoD/ECE

Dr.P.LAWRENCE, (Principal)

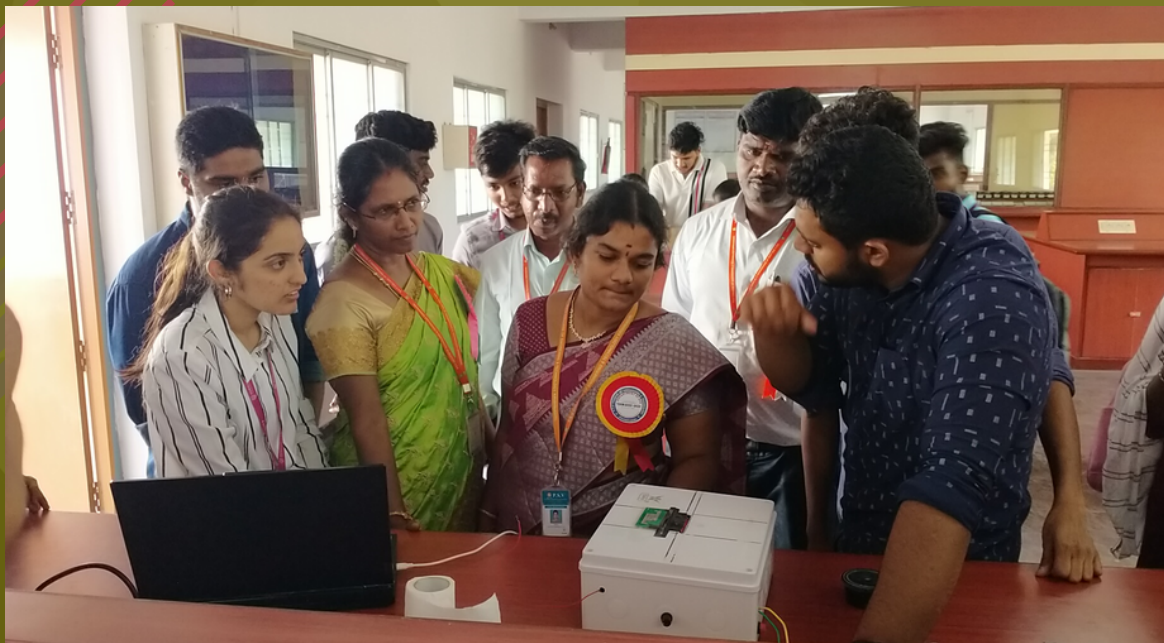


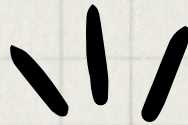
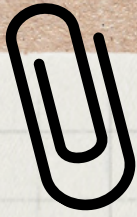
The chief guest panel, led by Mr.Selva Murali, CEO & Founder of Visual Media technologies in Clouds India, initiated the event by sharing their personal industry experiences, sparking motivation in the hearts of the students. TEKWARZZ 2K23, crafted by students for students, catered to every participant's desires and requirements.

RANDOM SNAPS OF THE EVENT



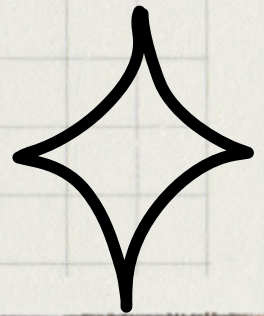
*“Students from Ramaiah Institute of Technology, Bangalore
Demonstrating project”*





INNOVATIVE PROJECTS

IDEAS KNOWLEDGE



PROJECT

ARTIFICIAL NEURAL NETWORK

STUDENT PROCTOR AND PROGNOSTICATING

ABSTRACT

Most universities provide educational courses and training physically, i.e., requiring the attendance of lectures, entrance examinations, semester exams, and other activities in physical classrooms and open spaces. to facilitate object detection in a college environment, the proposed work identifies the presence of a person wearing an ID card, lab coat, shoes and also a person not wearing ID card by comparing with the database containing pre-stored images with person wearing and not wearing ID cards.

Keywords: Open CV, Artificial Neural Network, SMTP protocol.

OVERVIEW OF THE PROJECT

Currently we have failed in maintaining the physical mode of discipline. Then the student monitoring process and time will be noted which is a tedious and an alert message process and time will be sent to the consuming. Moreover, We have used Artificial Neural Network for the several malpractices of students will be gone unnoticed. in this project we proposed a robust system of student monitoring. The webcam installed continuously monitors the students. through Open CV if the student fails to wear shoe, ID card, lab coat or uses mobile phones which will be detected as student failed in maintaining the discipline. then the student will be noted and an alert message will be sent to the authorities. We have used Artificial neural network for the continuously monitoring the students and

failed in maintaining the discipline. Then the student will be noted and an alert message will be sent to the authorities. We have used Artificial Neural Network for the continuously monitoring the students and SMTP protocol is used for sending alert messages. Thus, student monitoring will be easier and accurate and any malpractise would be detected immediately.

MURALIDHARAN M, IV ECE
NAVEEN KUMAR V, IV ECE
SUTHISH M, IV ECE
UDHAYA KUMAR B, IV ECE

PROJECT

DEEP LEARNING

SECURED E-VOTING MACHINE USING OPENCV

ABSTRACT

The design to be user-friendly, with a straightforward and intuitive interface that allows voters to cast their votes easily and securely. the RFID technology is used to authenticate the voter's identity, while fingerprint sensing and face recognition are used to verify the authenticity of the voter. The system also uses GSM technology to transmit voting data securely to the central server, providing real-time results while ensuring the confidentiality of the voting process.

Keywords: Fingerprint sensing , Face Recognition, GSM

OVERVIEW OF THE PROJECT

In this system ensure the privacy, accuracy and integrity of the voting process the proposed system incorporates several security features, including encryption, authentication and audit trails.

The syste's architecture provides redundancy and fault tolerance, ensuring that the voting process continues even in the event of a technical failure or security breach. Overall, the secured E-Voting machine using RFID, fingerprint sensing, face recognition and GSM technologies provides a reliable, efficient and secure solution for the democratic process.

The system enchances transparency, trustworthiness and public confidence in the electoral system, thereby promoting democracy and good governance.

DHYALAN C, IV ECE
KARTHICK S, IV ECE
SATHISH G, IV ECE

2

PROJECT

YOLO ALGORITHM

AUTOMATIC DETECTION OF ABNORMAL DRIVING AND SPEED CONTROL

ABSTRACT

Drunkenness or exhaustion and some abnormal behaviors of drivers are the leading cause for accidents could be avoided if fatigued drivers were warned ahead of time. Several drowsiness detection technologies to monitor for signs of inattention while driving and notifying the driver can be adopted. Some techniques must constantly monitor the driver and detect facial landmarks in order to extract the drivers state of expression presentation and determine whether they are driving safely. If the driver uses phone while driving is detected.

Keywords: Phone detection, MQ2 sensor, Eye Detection, Speed Control

OVERVIEW OF THE PROJECT

In this project, vehicle control immediately slows it down, and alerts the driver by giving voice alert and sounding an alarm to make them aware of the situation. Also load cell will detect the weight of the load, if it is overloaded the system slows down the vehicle. MQ2 sensors detects the alcohol that comes in contact with it, once alcohol is detected the vehicle don't even starts. L293 driver board will be integrated with the vehicle's electronics, tracking the vehicle's statistics and providing more accurate results.

In this project, we have implemented real-time detection method to detect the abnormal activities of the driver. The system was tested under variable luminance conditions and outperformed current research in term of accuracy.

MAHALAKSHMI S, IV ECE
RAGAMALIGA D S, IV ECE
SHABANA ASHMI, IV ECE

3

PROJECT

SPEECH PROCESSING

INTELLIGENT WRITING AND SPEAKING ROBOT

ABSTRACT

Our proposed system aim to help such disabled student to take-up their examination easily through speech processing and robot technology. the signals are processed in digital form, so speech processing can be regarded as special case of digital signal communication interface between human and machines which is termed as Automated Speech recognition (ASR). Robots are designed to help human in their work and reduce human effort. An application of speech processing is that of converting speech to text.

Keywords: Interactive System, robotic technology, speech processing

OVERVIEW OF THE PROJECT

When used together with ASR. to implement the proposed work, we have used a software unit which uses python library speech processing and hardware unit which uses Arduino UNO and CNC shield. The proposed system uses G-code for CNC shield board.

speech processing is the study of speech signals and the method of processing them. The signals are processed in digital form, so speech processing can be regarded as a special case of digital signal communication interface between humans and machines which is termed as Automated speech recognition (ASR). The recognition can be done for continuous speech

signals using a large vocabulary. An application of speech processing is that of converting speech to text. when used together with ASR, it allows interactions between the human and the robot. Robots are designed to help humans in their work and reduce human efforts.

KAVIYA S, IV ECE
PAVITHRA V, IV ECE
SWETHA S, IV ECE

4

PROJECT

HYBRID POWER MONITORING SYSTEM

HELICAL WIND AND SOLAR IN HIGHWAYS

ABSTRACT

This project is design with a helical shaped wind helical wind turbine to recapture wind energy from vehicles on the highway and to produces hybrid renewable energy. hybrid energy is considered the fastest growing clean energy source however, it is limited by variable natural wind especially during winter season wind will be high. Highways can provide a considerable amount of wind to drive a helical wind turbine due to high vehicle traffic. This energy is unused. Extensive research on wind patterns is required to determine the average velocity of the wind created by on coming vehicles. the helical wind turbines and solar will be placed on the medians therefore fluid flow from both sides of the highway will be considered in the design.

OVERVIEW OF THE PROJECT

In this solar power system during summer days to consume energy from sun light, with this solar power an energy will be stored during summer season. In winter days energy can be taken from wind and in summer energy can be taken from sun light. Additionally, since the wind source will fluctuate, a storage system for the power generated will be designed to distribute and maintain a constant source of power. Ideally, the helical wind turbine can be used globally as an unlimited power source for hybrid lights and other public amenities.

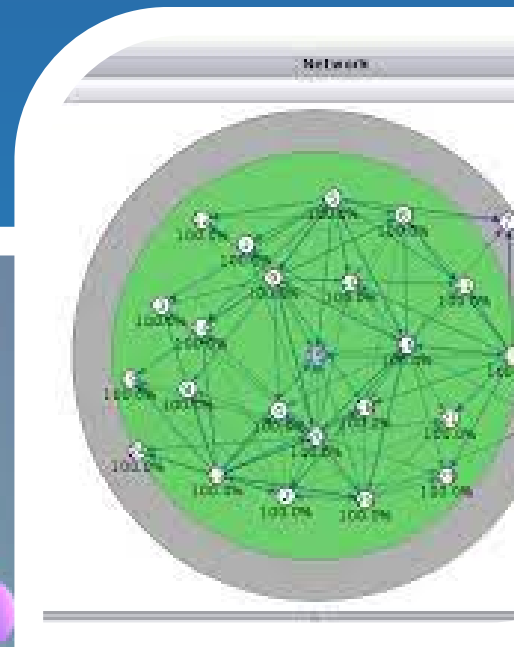
KAVILAIYA V, IV ECE
LATHA S IV ECE
YAMINI R, IV ECE

5

RECENT TECHNOLOGIES



EXTENDED REALITY



AIOT

AIOT, or Artificial Intelligence of Things, is an innovative integration of Artificial Intelligence (AI) technologies with the Internet of Things (IoT). It merges the capabilities of AI, such as machine learning and data analytics, with the vast network of interconnected devices in IoT.

In simpler terms, AIOT refers to the enhancement of IoT devices by integrating AI algorithms, enabling them to gather, analyze, and act upon data in more sophisticated and intelligent ways. This integration empowers IoT devices to make informed decisions, learn from experiences, and adapt to changing environments without human intervention.

**KAVIARASAN V,
II YEAR**



Key Aspects of AIOT:

1. **Advanced Analytics:** AIOT enables devices to process and analyze data in real-time, extracting valuable insights that can be used for predictive maintenance, anomaly detection, and optimized operations.
2. **Autonomous Decision-Making:** With AI capabilities, IoT devices can make decisions based on the analyzed data, leading to more efficient and timely actions without constant human intervention.
3. **Improved Efficiency:** AIOT helps in optimizing processes, reducing downtime, and enhancing overall efficiency by learning from patterns and continuously improving performance.
4. **Personalization and Customization:** Through AIOT, devices can personalize user experiences by understanding preferences and adapting functionalities accordingly.
5. **Security and Risk Mitigation:** AIOT can strengthen security measures by identifying potential threats or vulnerabilities in IoT networks and taking proactive measures

Applications of AIOT:

1. **Healthcare:** AIOT facilitates remote patient monitoring, smart medical devices, and personalized treatment plans by analyzing patient data in real-time.
2. **Smart Cities:** Implementation of AIOT in urban infrastructure allows for efficient traffic management, energy consumption optimization, and better waste management.
3. **Manufacturing and Industry 4.0:** AIOT enables predictive maintenance in factories, real-time monitoring of equipment, and optimization of production processes.
4. **Agriculture:** AIOT assists in precision farming by providing insights on soil health, weather conditions, and crop management, leading to increased yields.
5. **Smart Homes:** Integration of AIOT in homes results in intelligent appliances, automated security systems, and energy-efficient solutions.

EXTENDED REALITY

Extended Reality (XR) is an umbrella term that encompasses various immersive technologies, including Virtual Reality (VR), Augmented Reality (AR), and Mixed Reality (MR). It refers to the spectrum of experiences that blend the physical world with digital elements, creating new environments where physical and virtual worlds coexist and interact.

1. Virtual Reality (VR):

- VR creates a completely digital environment that immerses users in a simulated reality. Users wear VR headsets that block out the physical world, transporting them to computer-generated environments, offering a sense of presence and immersion.
- 2. Augmented Reality (AR): AR overlays digital content onto the physical world, enhancing real-world experiences. AR is often experienced through smartphone apps or wearable AR glasses, allowing users to see and interact with digital elements while still being aware of their physical surroundings.

2. 3. Mixed Reality (MR):

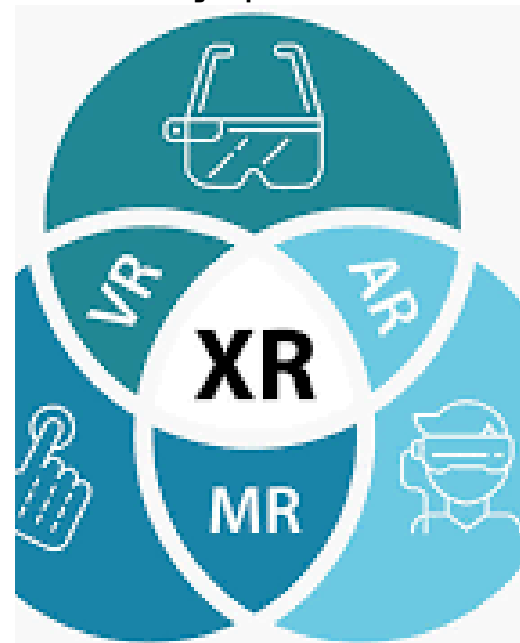
- MR blends elements of both VR and AR. It integrates digital content into the physical environment, enabling interaction with both real and virtual objects. MR devices like Microsoft HoloLens allow digital objects to appear as if they exist in the real world.

Key Aspects of Extended Reality:

1. Immersive Experiences: XR technologies aim to create deeply immersive experiences that engage multiple senses, offering a feeling of presence in a virtual or augmented environment.
2. Diverse Applications: XR finds applications across industries such as gaming, entertainment, education, healthcare, manufacturing, architecture, and more. It transforms how people learn, work, entertain, and interact with their surroundings.
3. Enhanced Interaction: XR enables users to interact with digital objects in a more

Applications of XR:

1. Gaming and Entertainment: Immersive gaming experiences and interactive entertainment using VR and AR technologies.
2. Training and Education: Simulated environments for training purposes, virtual classrooms, and interactive educational content.
3. Healthcare: Surgical training simulations, patient care assistance, mental health therapy, and pain distraction techniques using XR.
4. Architecture and Design: Visualizing architectural designs in real-time, creating virtual prototypes, and immersive walkthroughs.
5. Retail and Marketing: AR applications for virtual try-ons, enhancing customer engagement, and interactive marketing experiences.



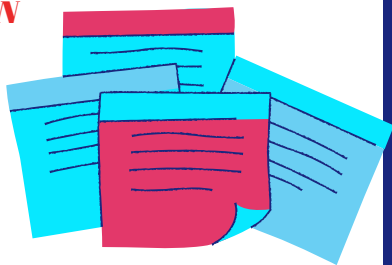
**E LEARN
CORNER**



ACHIVEMENTS



**STUDENTS
PARTICIPATION**



**NPTEL
COURSES**



**QUIZ & WORD
SEARCH**



E-LEARNING CORNER



Sridhar.S, IV Year for completing core Java training offered by Aavanto Technology from January 2023 – April 2023

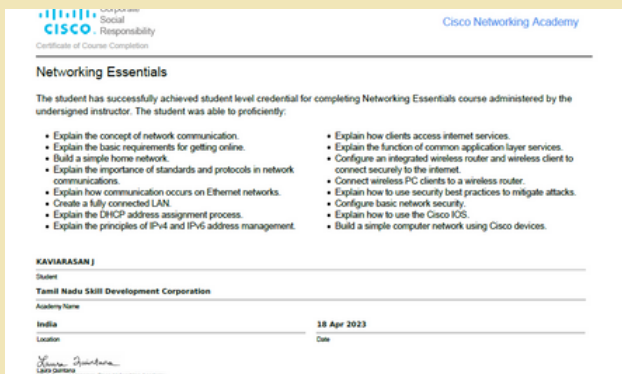
SRIDHAR S , IV YEAR

KAVIARASAN J, II Year for successfully completing 7 days Bootcamp on Google Drive Clone Using HTML and Material CSS – October 2022



KAVIARASAN J, II YEAR

KAVIARASAN J, II Year for successfully completing student level credential for completing Networking Essentials course by CISCO Academy, 18 April 2023.

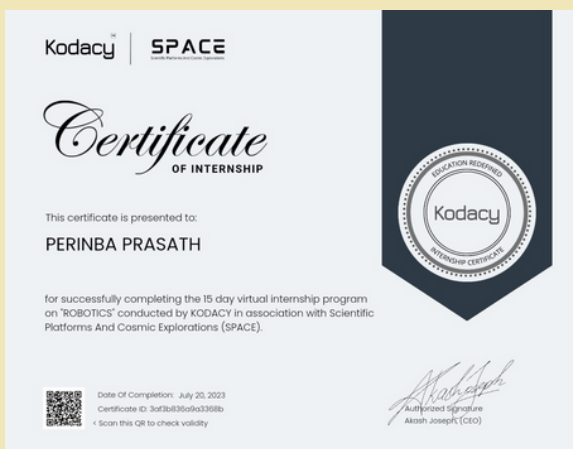


KAVIARASAN J, II YEAR



KAVIARASAN J, II YEAR

KAVIARASAN J, II Year for successfully completed the HTML Course on our Mobile application named LearnHTML, October 26, 2022



PERINBA PRASATH, II YEAR

PERINBA PRASATH, II Year for successfully completing the 15 Days Virtual internship program on "ROBOTICS" conducted by KODACY in association with Scientific Platforms and Cosmic Explorations (SPACE) April 20, 2023.



DHANUS MANI, II YEAR

DHANUS MANI, II Year for successfully completing the 15 Days Virtual internship program on "HTML" conducted by KODACY in association with Scientific Platforms and Cosmic Explorations (SPACE) April 6, 2023.

STUDENTS PARTICIPATION & ACHIVEMENTS



DINESH KUMAR S, III Year student participated in paper presentation in the Intercollegiate competition conducted by PG & Research Department of Engineering of Computer Science and PG Department of Computer Applications on 03.03.2023 @ Marudhar Kesari Jain College for Women.



DIVYA R, III Year student participated and secured first in Poster making Competition of Celebration of Engineer's Day 2022 on 15 Sep 2022 @ P.S.V College of Engineering & Technology.



MURALIDHARAN M, IV YEAR, student participated in Project Panoply 2K23, organized by Department of ECE, on 11.03.2023 @ Jeppiaar Engineering College, Chennai.



DIVYA R, III year student completed Training internship in Web Designing period from 30.01.2023 to 04.02.2023 trained by ECM Software training Institute



JANSIRANI S, II Year student has participated at the district level of Speak for India - Tamil Nadu Edition, a state level inter-collegiate debate competition held on Jan 11th @ P.S.V College of Engineering, Organized by A Federal bank CSR initiative.



Students from IV year students has participated in the One day Workshop on Communication skills for Better Employability organized by the Department of English, School of Social Sciences and Languages, VIT, Vellore on 10 March 2023.

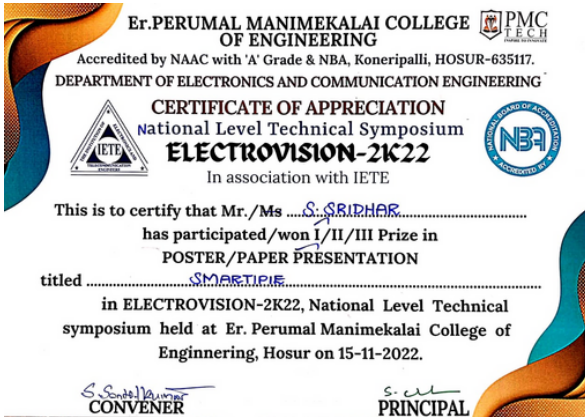
1. Balaji M
2. Muralidharan M,
3. Kavilaiya V
4. Roopa Sri R
5. Subashini S L
6. VedhaPriya M
7. Komathi
8. Yamini R



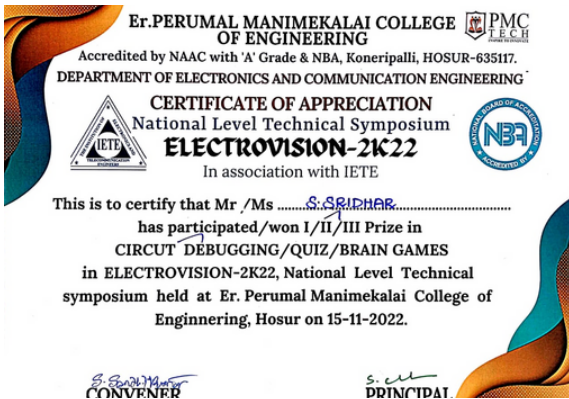
JANSIRANI S, II Year student has participated in the district level Tamil debate Competition held @ Krishnagiri on 02.04.2023



Students from IV year & III year
 Participated in Two day National level
 Workshop (12 & 13.10.2022)
 Participated in Adhiyaman college of
 Engineering-Hosur



S.SRIDHAR has participated & Won
 First place in Paper presentation titled
 "SMARTPIE" in Electrovision -
 2K22, National level Technical
 symposium held at Er. Perumal
 Manimekalai College of Engineering,
 Hosur on 15-11-2022.

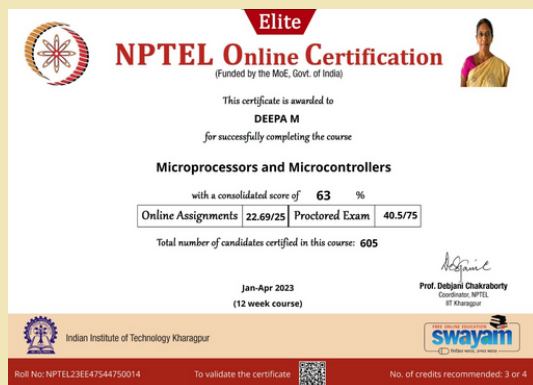


S.SRIDHAR has participated & Won
 First place in Circuit Debugging National
 level Technical symposium held at Er.
 Perumal Manimekalai College of
 Engineering, Hosur on 15-11-2022.

FACULTY NPTEL PARTICIPATION



Mrs.M.DEEPA, Assistant Professor, for successfully completing the course "Electromagnetic waves in Guided and Wireless Media" 8 week course Jan-mar 2023.



Mrs.M.DEEPA, Assistant Professor, for successfully completing the course "Microprocessors and Microcontrollers" 8 week course Jan-April 2023. Elite Certificate



Mrs.M.DEEPA, Assistant Professor, for successfully completing the course "Principles of Communication Systems - I" 12 week course Jan-April 2023. Elite Certificate



Mrs.M.DEEPA, Assistant Professor, for successfully completing the course "Digital Electronic Circuits" 12 week course Jan-April 2023. Elite Certificate



Elite
NPTEL Online Certification
 (Funded by the MoE, Govt. of India)

This certificate is awarded to
M SIVAGAMI
 for successfully completing the course

Microprocessors and Microcontrollers
 with a consolidated score of **67** %

Online Assignments	23.13/25	Proctored Exam	43.5/75
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Total number of candidates certified in this course: 605

Jan-Apr 2023
 (12 week course)

Prof. Debjani Chakraborty
 Coordinator, NPTEL
 IIT Kharagpur

Indian Institute of Technology Kharagpur

swayam

Roll No: NPTEL23EE47544750040 To validate the certificate No. of credits recommended: 3 or 4

Mrs.M.SIVAGAMI, Assistant Professor, for successfully completing the course “Microprocessors and Microcontrollers” 12 week course Jan–April 2023. Elite Certificate



Elite
NPTEL Online Certification
 (Funded by the MoE, Govt. of India)

This certificate is awarded to
SHANMUGAM S
 for successfully completing the course

CMOS Digital VLSI Design
 with a consolidated score of **68** %

Online Assignments	21.63/25	Proctored Exam	46.5/75
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Total number of candidates certified in this course: 528

Jan-Mar 2023
 (8 week course)

Prof. Prii Maheshwari
 NPTEL Coordinator
 IIT Roorkee

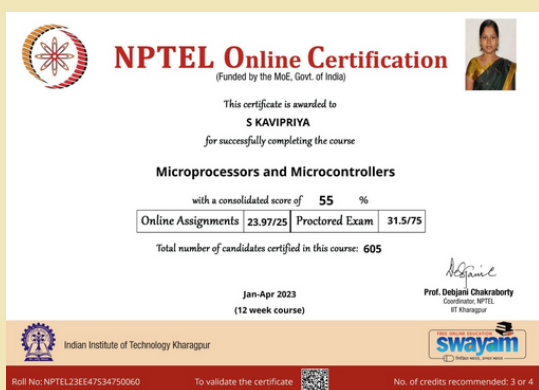
Prof. Sanjeev Manhas
 Coordinator, Continuing Education Centre
 IIT Roorkee

Indian Institute of Technology Roorkee

swayam

Roll No: NPTEL23EE07545541065 To validate the certificate No. of credits recommended: 2 or 3

Mrs.S.SHANMUGAM, Assistant Professor, for successfully completing the course “CMOS Digital VLSI Design” 8 week course Jan–Mar 2023. Elite Certificate



Elite
NPTEL Online Certification
 (Funded by the MoE, Govt. of India)

This certificate is awarded to
S KAVIPRIYA
 for successfully completing the course

Microprocessors and Microcontrollers
 with a consolidated score of **55** %

Online Assignments	23.97/25	Proctored Exam	31.5/75
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Total number of candidates certified in this course: 605

Jan-Apr 2023
 (12 week course)

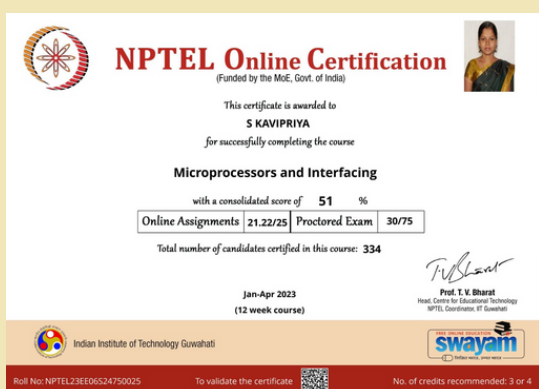
Prof. Debjani Chakraborty
 Coordinator, NPTEL
 IIT Kharagpur

Indian Institute of Technology Kharagpur

swayam

Roll No: NPTEL23EE47534750060 To validate the certificate No. of credits recommended: 3 or 4

Mrs.S.KAVIPRIYA, Assistant Professor, for successfully completing the course “Microprocessors and Microcontrollers” 12 week course Jan–Apr 2023.



Elite
NPTEL Online Certification
 (Funded by the MoE, Govt. of India)

This certificate is awarded to
S KAVIPRIYA
 for successfully completing the course

Microprocessors and Interfacing
 with a consolidated score of **51** %

Online Assignments	21.22/25	Proctored Exam	30/75
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Total number of candidates certified in this course: 334

Jan-Apr 2023
 (12 week course)

Prof. T. V. Bharat
 Head, Centre for Educational Technology
 NPTEL Coordinator, IIT Guwahati

Indian Institute of Technology Guwahati

swayam

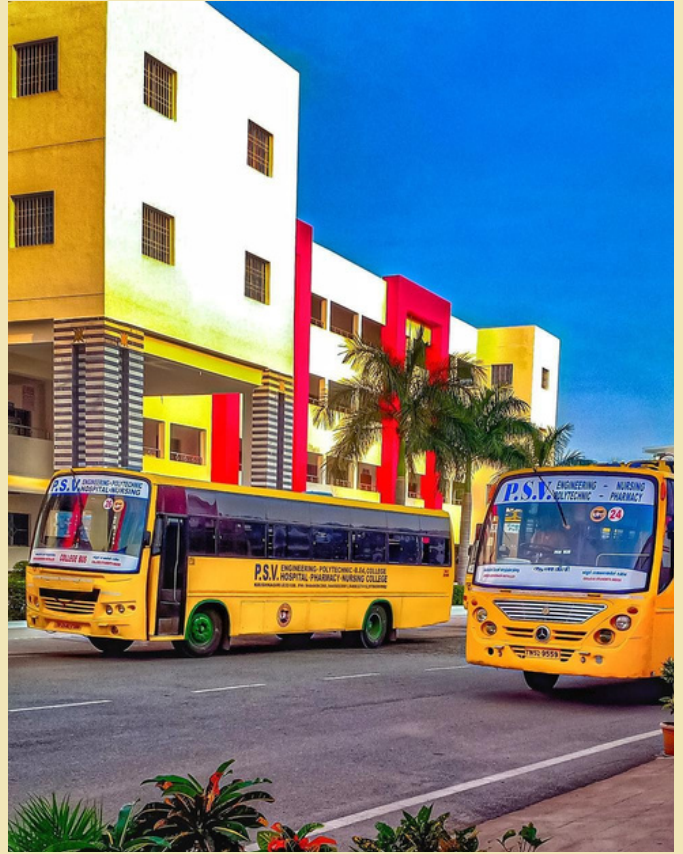
Roll No: NPTEL23EE06524750025 To validate the certificate No. of credits recommended: 3 or 4

Mrs.S.KAVIPRIYA, Assistant Professor, for successfully completing the course “Microprocessors and Interfacing” 12 week course Jan–Apr 2023.

COLLEGE CORNER



PARANTHAMAN G,III ECE



PRASHANTH, III ECE



QUIZ TIME



MULTIPLE CHOICE

QUIZ

THE DATA TRANSFER RATE OF ANY CO-AXIAL CABLE USUALLY OCCURS OR LIES _____

- A. BETWEEN TP AND FIBER OPTIC CABLES
- B. BETWEEN STP AND UTP CABLES
- C. BOTH A & B
- D. NONE OF THE ABOVE

THE PORT ADDRESS IN TCP/IP ARCHITECTURE BASICALLY INVOLVES _____

- A. LABEL ASSIGNING TO A PROCESS
- B. CHANGING OF PHYSICAL ADDRESS FROM HOP TO HOP
- C. ENCAPSULATION OF DATA IN A FRAME
- D. ALL OF THE ABOVE

WHICH TYPE OF LOGIC IS PRODUCED BY CASE STATEMENTS?

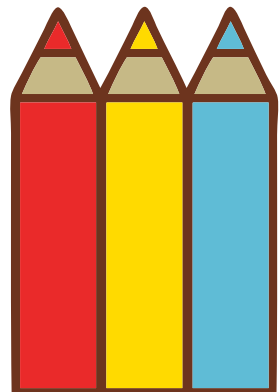
- A. SERIAL LOGIC
- B. PARALLEL LOGIC
- C. PRIORITY ENCODED LOGIC
- D. PRIORITY DECODED LOGIC

WHICH SIGNAL IS USED TO TRANSFER THE STORED DATA INTO RAM?

- A. STORE
- B. LOAD
- C. RECALL
- D. MOVE



WORD SEARCH



WORD SEARCH



Electronics

F L U X C C C T S I W G Y T A
U F L E R M C Y T I R A L O P
S E M L E I O S T I N T E C I
E F E C O M N U T U I E T Y B
C O N I U O D E F O E A O E Y
C E Q R T I U Y E R T M I S R
R J E C N I C E E S U P Y S Q
R I L U O T T E A M M E T E R
R E S I S T O R L Q I R U I C
J R C T E L R J O U L E L I M
C A P A C I T O R O C D R Y I
Y E D C A Y R O T A L U S N I
F R E Q U E N C Y U T G S E Y
O Q C T E E L M S R A U I I I
D I O D E W A L S M H O E C J

Ampere
Conductor
Polarity
Diode

Joule
Capacitor
Byte
Fuse

Ammeter
Insulator
Flux
Resistor

Circuit
Gate
OhmsLaw
Frequency



ABOUT OUR COLLEGE

P.S.V College of Engineering and Technology is executed by St.Joan's Educational Trust. The Founder of the Trust, Dr.P.Selvam, is an academician with rich experience in teaching and having achieved an unenviable reputation in this own profession, Dr.P.Selvam, a keen social activist and visionary, felt that he should contribute his might to the betterment of the society as a part of his social commitment. This he felt, could be achieved by promoting Educational Institutions that impart high quality knowledge at an affordable cost so that the middle class, the less privileged and the underprivileged could get more benefits.

Globalization of Education and the Paradigm shift in teaching methodology have inspired the Trust to foster top-notch edification in multifarious spheres of learning. As a step towards materializing this dream, the Trust has founded "P.S.V. College of Engineering and Technology" to provide quality education and training to students in Engineering and Technology to prepare them to come up in the highly competitive technological fields. At P.S.V College of Engineering and Technology we aim at molding students to become intellectually luminous, globally competitive and industry ready engineers and technologists. The academic ambience at P.S.V College of Engineering and Technology will steer the students to achieve their best.

UG DEPARTMENT

1. Mechanical Engineering
2. Electronics & Communication Engineering
3. Computer Science & Engineering
4. Electrical & Electronic Engineering
5. Civil Engineering
6. Information Technology
7. Bio-Medical Engineering
8. Artificial Intelligence & Data Science

PG DEPARTMENT

- 1.MBA
2. (M.E) Computer Science & Engineering
3. (M.Tech) Information Technology
4. (M.E) Embedded System Technologies

HIGHLIGHTS

1. Affiliated to Anna University, Chennai
2. Approved by AICTE, New Delhi
3. ISO 9001:2015 Certified Institution
4. Excellent Infrastructure Facilities
5. Offers UG/PG Programmes
6. Highly Qualified Faculty Members
7. Placement & Training Cell
8. Industrial visits / Training / Projects to Students
9. Conducting Technical Symposia / Seminars for students