



P.S.V COLLEGE OF ENGINEERING & TECHNOLOGY

Affiliated to Anna University | Approved by AICTE

Department of Electronics & Communication
Engineering

TEKWARZZ NEWSLETTER-2K22

VISION

- To impart latest knowledge and technical skills in Electronics and Communication Engineering to lead a progressive career at industries and to build professional ethics.

MISSION

- **M1** : To develop the state-of-the-art infrastructure for effective teaching learning process and quality research.
- **M2** : To create awareness for life-long learning through interaction with outside world regarding technological trends and Entrepreneurship.
- **M3** : To inculcate self-sustainability and over all development through Research and development activities.
- **M4** : To provide ethical and value based education for addressing the societal needs.
- **M5** : To empower the students to fulfill their academic excellence in all domains.

MESSAGE FROM HoD's DESK



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.

STUDENTS ACTIVITIES

1. **SWEATHA.P, SANGEETHA.S, VARSHINI.S, IV Year** students has presented the paper titled “**Design and Development of Automatic sanitary Napkins Incinerator & Vending machine with trash recycle**” in the Recent Innovation in VLSI, Communication & Signal processing (RIVCS - 2K22) held at Er. Perumal manimekalai College of Engineering, Hosur on 2nd June 2022.

2. **BALACHANDAR.M, DEEPAN MANJU U, GANAPATHI S, IV Year** students has presented the paper titled “ **Design & Implementation of Automatic Deforestation Prediction & Alert system using AI**” in the Recent Innovation in VLSI, Communication & Signal Processing (RIVCS - 2K22) held at Er. Perumal Manimekalai College of Engineering, Hosur on 2nd June 2022.

3. **MADHUMITHA.C, SARULATHA.M, SONIYAS, IV Year** students has presented the paper titled “**Design & fabrication of Water purifier using Solar Energy**” in the Recent Innovation in VLSI, Communication & Signal processing (RIVCS - 2K22) held at Er. Perumal Manimekalai College of Engineering Hosur on 2nd June 2022.

4. **AKKASH.B.S, ANBARASAN.K, BASAVARAJ.B, MUKESH.R, IV Year** students has presented the paper titled “**Implementation of DVR Associated CCTV Camera With Real Time Monitoring in Workplace**” in the Recent Innovation in VLSI, Communication & signal processing (RIVCS - 2K22) held at Er. Perumal Manimekalai college of Engineering, Hosur on 02nd June 2022.



5. **BRINDHAR, SANGEETHA.N, SANGEETHA.C, IV Year** students has presented the paper titled **“Fabrication of Fake Note Detection and Currency Counting machine using image processing Technique“** in the Recent innovation in VLSI, Communication & Signal processing (RIVCS -2K22) held at Er. Perumal manimekalai college of Engineering, Hosur on 2nd June 2022.

6. **PRIYADHARSHINIA, PRIYADHARSHINIJ , THENMOZHIA, IV Year** students has presented the paper titled **“Design and Development of AODV protocol for Collision Avoidance Using TDMA”** in the recent Innovation in VLSI, Communication & Signal Processing (RIVCS -2K22) held at Er. Perumal Manimekalai College of Engineering, Hosur on 2nd June 2022.

7. **BOOMIKA.S, JAGADEESWARIC, PAVITHRA.S, IV Year** students has presented the paper titled **“Design and implementation of an Intelligent system for Dehydration Detection Based on Machine learning Algorithm“** in the Recent Innovation in VLSI, Communication & signal Processing (RIVCS - 2K22) held at Er. Perumal Manimekalai College of Engineering, Hosur on 2nd June 2022.

8. **V.SNEGA, IV YEAR** students has presented paper titled **“Design and Implementation of generating Electricity from food Waste using IoT”** in the Innovation in VLSI, Communication & signal processing (RIVCS - 2K22) held at Er. Perumal Manimekalai College of Engineering, Hosur on 2nd June 2022.



9. **MOHAN.C, PRAKASH.V, IV YEAR** students has presented paper titled “Design & Development of Smart Phone Controlled 3D Printer prosthetic leg using AC system” in the Innovation in VLSI, Communication & signal processing (RIVCS - 2K22) held at Er. Perumal Manimekalai College of Engineering, Hosur on 2nd June 2022.

10. **ISHWARYA.K, NAHDEA ANJUM.F, RAZIA SULTANA.M.R, IV YEAR** students has presented the paper titled “Design & Implementation of Automated Inspection Space Robot Using Artificial Intelligence” in the Innovation in VLSI, Communication & signal processing (RIVCS - 2K22) held at Er. Perumal Manimekalai College of Engineering, Hosur on 2nd June 2022.

11. **JEEVITHA.C, RASHIGAPRIYA.M, VIDYA SREE.K.S, IV YEAR** students has presented the paper titled “Design & Implementation of High Speed Data Transmission Using Wireless optical Communication” in the Innovation in VLSI, Communication & signal processing (RIVCS - 2K22) held at Er. Perumal Manimekalai College of Engineering, Hosur on 2nd June 2022.

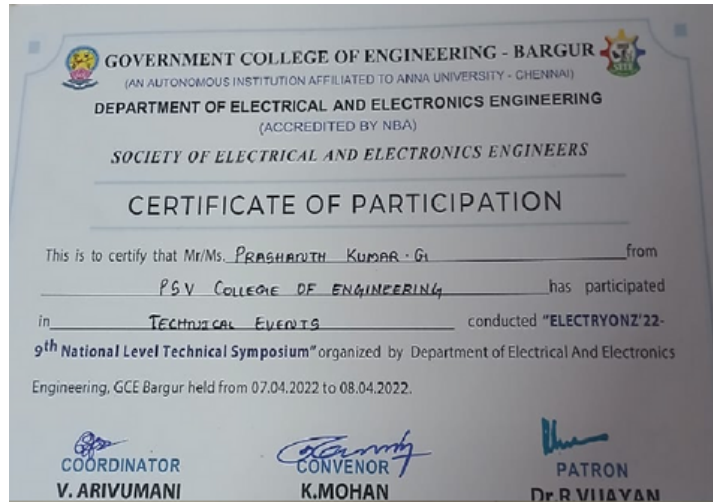


12. **SATHYA.N, DHANALAKSHMI.M, IV YEAR** students has presented the paper titled “**Design & Implementation of Smart Wearable Device for Women safety using Artificial Intelligence**” in the Innovation in VLSI, Communication & signal processing (RIVCS – 2K22) held at Er. Perumal Manimekalai College of Engineering, Hosur on 2nd June 2022.

13. **PRAGADEESH.R, VIGNESH.N, VENKATESAN.G** has presented the paper titled “**Implementation of Automatic Attendance register & Monitoring Using facial landmark Algorithm**” in the Innovation in VLSI, Communication & signal processing (RIVCS – 2K22) held at Er. Perumal Manimekalai College of Engineering, Hosur on 2nd June 2022.



14. **Prasanth Kumar G**, a third-year student in the Electronics and Communication Engineering (ECE) program, achieved second place in the Tech Talk competition held at Government Engineering College, Bargur on April 5th, 2022. He showcased his expertise and innovative ideas in the field, impressing judges and peers alike with his presentation.



15. **Devadharshini J**, a third-year student, took part in a paper presentation at Government Engineering College, Bargur, on April 5th, 2022.



16. **Swetha S**, third year has participated in a paper presentation event conducted during Reviva-2022 by the Department of Electronics & Communication Engineering at Government Engineering College, Bargur, on April 5th, 2022."



17. **Godwin Samuel S**, a second-year student, participated in a paper presentation and won the second prize at Er. Perumal Manimekalai College of Engineering on June 15th, 2022.



18. **Sridhar S**, a third-year student, participated in a paper presentation at Kuppam Engineering College, Chittoor, on May 28, 2022.

19. **Karmugilan T**, a second-year student, participated in a Quiz Completion at Kuppam Engineering College, Chittoor, on May 28, 2022.



FACULTY PARTICIPATION

1. **C.THAMILARASI** has participated in the One Week International Faculty Development Programme on “Synergia to Reform and Refresh Ourselves as Agents to Ensure Quality Education”, from 1st June 7th June 2022 @ Auxilium College (Autonomous), Vellore.
2. **E.PUNITHA** has participated in the One Week International Faculty Development Programme on “Synergia to Reform and Refresh Ourselves as Agents to Ensure Quality Education”, from 1st June 7th June 2022 @ Auxilium College (Autonomous), Vellore.
3. **S.SHANKAR** has Completed the 8 Day National Level Online Faculty Development Program on Outcome Based Education organized by the Internal Quality Assurance Cell of St.Joseph’s Degree & PG College (Autonomous), Hyderabad.
4. **S.KAVIPRIYA** for participating in One Week Online FDP on “Tools for Scientific Communication and Effective Teaching” Organized by Electrical and Electronics Engineering Department, VCE, During 2nd June – 9th June 2022.
5. **C.UMASAKTHI** for participating in One Week Online FDP on “Tools for Scientific Communication and Effective Teaching” Organized by Electrical and Electronics Engineering Department, VCE, During 2nd June – 9th June 2022.
6. **G.SATHIYAVANI** for participating in One Week Online FDP on “Tools for Scientific Communication and Effective Teaching” Organized by Electrical and Electronics Engineering Department, VCE, During 2nd June – 9th June 2022.

7. **G.THAMILARASI C**, has presented a paper titled “Design and Development of High Speed Data Transmission Using Wireless Optical Communication, in RIVCS-22 held at Er.Perumal Manimekalai College of Engineering, Hosur on 2nd June 2022.



8. **SHANMUGAM S**, has presented a paper titled “Design and Fabrication of Water purifier Using Solar Energy” in RIVCS-22 held at Er.Perumal Manimekalai College of Engineering, Hosur on 2nd June 2022.



9. **DEEPA M**, has presented a paper titled “Implemented of NVR Associated CCTV Camera with Secured Cloud Storage Based on IoT” in RIVCS-22 held at Er.Perumal Manimekalai College of Engineering, Hosur on 2nd June 2022.



10. **JOTHI A**, has presented a “Design and Implementation of automatic Deforestation Protection and alert systems using Artificial Intelligence” in RIVCS-22 held at Er.Perumal Manimekalai College of Engineering, Hosur on 2nd June 2022.



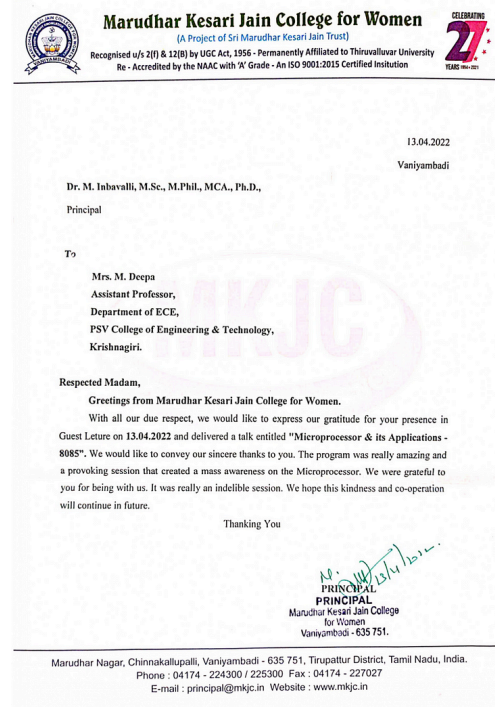
11. **PRAKASAM L**, has presented a “Design and Implementation of Smart Wearable Device for Women’s Safety Using Artificial Intelligence” in RIVCS-22 held at Er.Perumal Manimekalai College of Engineering, Hosur on 2nd June 2022.



12. **JOTHI A**, has presented a “Design and Implementation of automatic Deforestation Protection and alert systems using Artificial Intelligence” in RIVCS-22 held at Er.Perumal Manimekalai College of Engineering, Hosur on 2nd June 2022.



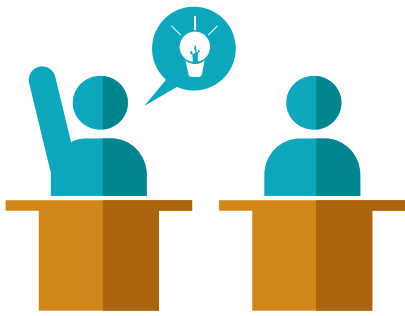
13. **DEEPA M**, delivered a talk entitled **Microprocessor-8085 and its Applications @ Marudhar Kesari Jain College for Women on 13.04.2022**



14. **SASIKALA M**, has presented a **"IMPLEMENTATION OF AUTOMATIC ATTENDANCE REGISTERN AND MONITORING USING FACIAL LANDMARK ALGORITHM"** in RIVCS-22 held at **Er.Perumal Manimekalai College of Engineering, Hosur on 2nd June 2022.**

DEPARTMENT PROGRAMS

1. A seminar on "Embedded System-Based Real-Time Projects" was organized on March 28, 2022, featuring Dr. P. Anandan, Professor of ECE at Saveetha School of Engineering.
2. A guest lecture on "Digital Communication" was held on April 7, 2022, presented by Mr. V. Prakash, Assistant Professor of ECE at Bharathidasan Engineering College, Natrampalli.
3. An alumni interaction featuring career guidance and a motivational speech took place on April 6, 2022, led by Mr. S. Ragul, Major Incident Manager at TCS, Chennai.



QUIZ TIME

1. What theorem replaces a complex network with an equivalent circuit containing a source voltage and a series resistance?

- a. Multinetwork
- b. Norton
- c. Thevenin
- d. Superposition

2. The dc current through each diode in a bridge rectifier equals:

- a. the load current
- b. half the dc load current
- c. twice the dc load current
- d. one-fourth the dc load current

3. Which type of signal is represented by discrete values?

- a. noisy signal
- b. nonlinear
- c. analog
- d. digital

4. The software used to drive microprocessor-based systems is called:

- a. Assembly language programs
- b. firmware
- c. BASIC interpreter instructions
- d. flow chart instruction

5. A ripple counter's speed is limited by the propagation delay of:

- a. each flip-flop
- b. all flip-flops and gates
- c. the flip-flops only with gates
- d. only circuit gates

6. A single transistor can be used to build which of the following digital logic gates?

- a. AND gates
- b. OR gates
- c. NOT gates
- d. NAND gates

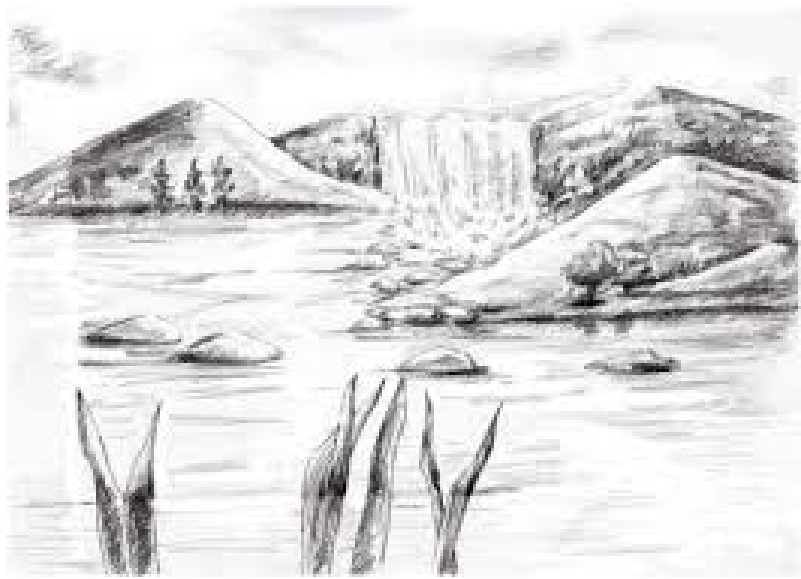
7. What is the standard TTL noise margin?

- a. 5.0 V
- b. 0.2 V
- c. 0.8 V
- d. 0.4 V

8. How many inputs are required for a 1-of-10 BCD decoder?

- a. 4
- b. 8
- c. 10
- d. 1

STUDENTS ARTS



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.L.PRAKASAM, AP/ECE

STUDENTS COMMITTEES

M.MUNISH KUMAR, IV ECE

S.SANJAY, III ECE

S.DINESH KUMAR, II ECE