

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.

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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 curriculam 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 environment of an 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 magzine 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. VARSHINLS. 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. Manimekalai Perumal College of Engineering, Hosur on 2nd June 2022.

3. MADHUMITHA.C. SARULATHA.M. **IV** Year SONIYA.S. 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. MUKESH.R, BASAVARAJ.B, 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.



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5. BRINDHA.R, 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. PRIYADHARSHINI.A, PRIYADHARSHINI.J , THENMOZHI.A, 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.** JAGADEESWARI.C, **PAVITHRA.S.** IV Year students has presented the paper titled "Design and implementation of an Intelligent Dehydration Detection system for 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.

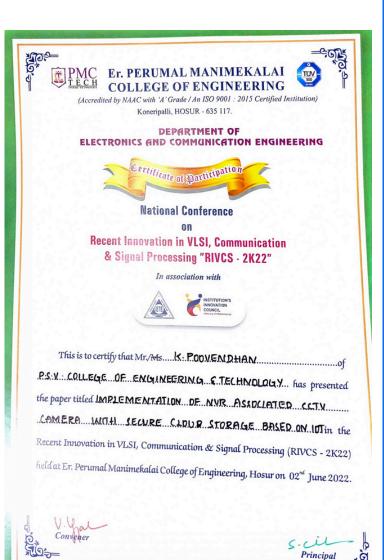
8. V.SNEGA, IV YEAR students has presented paper titled "Design and Implementation of generating Electricity from food Waste using IoT" in the Innovation in VLSI, Communication & signal processing (RIVCS – 2K22) held at Er. Perumal Manimekalai College of Engineering, Hosur on 2nd June 2022.



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 VLSI. in 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.



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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** presented the has "Implementation paper titled of **Automatic** Attendance register & Monitering 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, He Bargur on April 5th, 2022. showcased his expertise and innovative ideas field. in the impressing judges and peers alike with his presentation.

-	GOVERNMENT COLLEGE OF ENGINEERING (AN AUTONOMOUS INSTITUTION AFFILIATED TO ANNA UNIVERSIT EPARTMENT OF ELECTRICAL AND ELECTRONICS E (ACCREDITED BY NBA)	Y - CHENNOU)
	SOCIETY OF ELECTRICAL AND ELECTRONICS E	ENGINEERS
	CERTIFICATE OF PARTICIPA	TION
This is to	certify that Mr/Ms. PRASHARVTH KUMAR - G	from
	PSV COLLEGE DE ENGINEERING	has participated
in	TECHNIZCAL EVENIS CON	ducted "ELECTRYONZ'22-
th Nation	al Level Technical Symposium" organized by Department of	of Electrical And Electronic
ngineering	, GCE Bargur held from 07.04.2022 to 08.04.2022.	
Gp	Tarmin	12mm

K.MOHAN

V. ARIVUMANI

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.

PMC	Er. PERUMAL MANIMEKALAI
TECH	COLLEGE OF ENGINEERING
	(Accredited by NBA & NAAC with 'A' Grade) Koneripalli, HOSUR - 635 117.
	Department of Science & Humanities
	Eureka 2K22
(Express to Impress An Inter - Collegiate Technical Symposium for First Year Students)
	Certificate
This is to certify	hat Mr. Ms. Godwin Samuel S I B.E., ECE of
PSV college of Engineer	ng & Technologipas participated in event Paper Presentation (CHEMICIPAY)
Eureka 2K22 (Inter - Colle	giate Technical Symposium for First Year Students) on 15th June 2022
and secured	Place.
a whe:	call .
Convener	Principal

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 secon-year student, participated in a Quiz Completation at Kuppam Engineering College, Chittoor, on May 28, 2022.



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 I"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 presnted 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

	(A Project of Sri Marudhar Kesari Jain Trust) Recognised u/s 2(f) & 12(8) by UGC Act, 1956 - Permanently Affiliated to Thiravalluvar University Re - Accredited by the NAAC with 'A' Grade - An ISO 9001:2015 Certified Institution
	13.04.2022
	Vaniyambadi
Dr. N	1. Inbavalli, M.Sc., M.Phil., MCA., Ph.D.,
Princ	
Frine	par
То	
	Mrs. M. Deepa
	Assistant Professor,
	Department of ECE,
	PSV College of Engineering & Technology,
	Krishnagiri.
Respec	ted Madam,
	Greetings from Marudhar Kesari Jain College for Women.
	With all our due respect, we would like to express our gratitude for your presence in
Guest I	eture on 13.04.2022 and delivered a talk entitled "Microprocessor & its Applications -
8085".	We would like to convey our sincere thanks to you. The program was really amazing and
a prove	oking session that created a mass awareness on the Microprocessor. We were grateful to
	being with us. It was really an indelible session. We hope this kindness and co-operation
will con	ntinue in future.
	Thanking You
	W: Wulubar.
	1 WIN
	PRINCIPAL
	PRINCIPAL
	Marudhar Kesari Jain College for Women
	Vaniyambadi - 635 751.

E-mail : principal@mkjc.in Website : w

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.



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
- 0.0.0 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

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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