

# PESITRONICS NEWSLETTER

Imagination Becomes Reality

Volume 9, Issue 1

## Vision and Mission

### Vision

- To be the most preferred institution for engineering & management education, research & entrepreneurship by creating professionally superior & ethically strong global manpower.

### Mission

- Provide high-quality engineering and management education with technical excellence for global requirements.
- Promote research and entrepreneurship with collaboration, modern facilities, and strong mentorship.
- Build ethically grounded graduates who succeed globally, lead with integrity and commit to lifelong learning and social responsibility.

## Program Educational Objectives (PEO)

PEO 1: To develop the ability among students to understand the concept of core subjects.

PEO2: To give exposure to emerging technologies, adequate training and opportunities to work as team on multidisciplinary projects with effective communication skills.

PEO3: To cultivate ethical practices in Professional, Societal & Environmental needs by engaging in life-long learning.

## Program Specific Outcomes (PSO)

PSO1. Analyse and design analog & digital circuits or systems for a given specification and function.

PSO2. Implement functional blocks of hardware-software co-designs for signal processing and communication applications.

# Student Activities & Achievements

## Project Expo & Competitions

- **Havala S** - ProjectExpo at Akiya 2025, East Point College, Bengaluru (22/11/2025)
- **Mamatha** - Tech Talk event at SIGMA 2K25, JNN College, 2nd Place (29/11/2025)

## Hackathons & Simulations

- **SushmithaSureshHegde** - ChronoForge Software Hackathon, NITK Surathkal (26-28/09/2025)
- **Anusha Bidarakatti** - Cyber security Analyst Job Simulation, Forge (27/09/2025)
- **Varsha V S** - Cyber security Analyst Job Simulation, Forge (27/09/2025)
- **Varsha V S** - Solution Architecture Job Simulation Forge (09/11/25)
- **Anusha Bidarakatti** - Solution architecture Job Simulation, Forge (09/11/25)

## Internships & Workshops

- **Sushmitha SureshHegde** - Machine Learning Internship (19/10/2025)
- **Nayana Diller Y** - Career Orientation Workshop, ABC Technology (10/10/25)
- **Akash Kushnappa Mareguddi** - Career Orientation Workshop, ABC Technology (10/10/25)
- **Anusha Bidarakatti** - Introduction to Cyber Security, Simpli Skill Up (28/09/2025)
- **Nayana Diller Y** - C programming course, Infosys Spring Board (20/08/2025)
- **Nayana Diller Y** - Basics of Python, Infosys Spring Board (19/8/2025)

## Cadence & NPTEL Certifications

### Cadence Training Course Completions:

- Srujan R K (30/11/2025)
- Pushyami C R (23/11/2025)
- S C Karthikeya RTL to GDSII Flow V6.0 (23/11/2025)
- Varalaxmi Hiremath (22/11/2025)
- Hema S (20/11/2025)
- BV Lakshimi (16/11/2025)
- Varsha V S (27/9/2025)

### NPTEL Course Completions:

- Varsha V S - Introduction to Programming in C (55%)
- Mangala N C - Cloud Computing (60%)
- Girish M - Cloud Computing (60%)
- Srushti Ashok Sheshagiri - Cyber Security and Privacy (56%)
- Niranjana - Digital Circuits (52%)
- Saniya D - Data Base Management System (50%)
- Pushyami C R - Big Data Computing (75%)
- Varalakshmi B Hiremath - Big Data Computing (65%)

## Sports

### Achievements

- **AnuY** - VTUCentralKarnataka Throw Ball Women Tournament Runner at SIET Tumkur (12/12/2025 to 13/12/2025)

## Conferences & Publications

- **Harshavi H M** - "Adaptive Therapeutic Mattress" paper in IJSREM (12/11/25)
- **Tejaswini B** - "Leakage Power Minimization" paper in IJPREMS (11/11/25)
- **Sanjana A, Spoorthi V N, Sindhu Devendrappa Megalaman, Srujana M Jadav** - "AI in Medical Imaging" conference at Chenna Basaveshwara Institute (6-8/11/2025)
- **Pradyumn D** - "Smart Systems" conference at GM University Davangere (21/08/2025)

## Student Placements

Congratulations to the **124 students** who have been placed in leading companies including EDGEVERVE-DTS, TAP ACADEMY, QSPIDERS, PRERANA ENGINEERING, V3 NOVUS, OCEAN LINK SEA SERVICES, NASH INDUSTRIES, EMMVEE, INQORE SYSTEMS, HEARTIEST MIND, and CLOUDIFY-OPS!

## Faculty Achievements and Activities

### Invited Talk: Research Skills

On 28/10/2025, Dr. Ramesh C S, Advisor Research, GM University, delivered an insightful talk on "Research Skills" for our 7th-semester students.

Department of Electronics & Communication Engineering Organises Expert Talk On

# RESEARCH SKILL

IEEE Mangalore Subsection

**Resource Person**  
**Dr. C S Ramesh**  
Research Advisor  
GM University  
Davangere

**Presided By**

**Dr. Swamy D R**  
Principal, PESITM

**Dr. Sekar R**  
Vice Principal, PESITM

**Dr. Om Prakash Yadav**  
HOD, Dept. of ECE

**Dr. Likwin Thomas**  
IEEE Student Branch Counselor

**Event Coordinators**

**Dr. Suprith P G**  
IEEE Faculty Member  
Associate Professor

**Mrs. Yashaswini N G**  
Assistant Professor

**Venue** ECE Seminar Hall | **Date** 28-10-2025 | **Time** 10.00 AM - 12.30 PM

Fig 1 - Session for 7th Semester Students



Fig 2 - Dr. C S Ramesh briefing about Research Skills

## Invited Talk: Enhancing Employability in Core Engineering Industries

On 18/9/2025, Prof. Jayaraman K Iyer, Former Senior Scientist ISRO, shared valuable insights on "Enhancing Employability in Core Engineering Industries" with our 5th and 7th-semester students.

Prerana Educational and Social Trust®

**PES INSTITUTE OF TECHNOLOGY & MANAGEMENT**

NH-206, SAGAR ROAD, SHIVAMOGGA-577204

(Approved by AICTE, New Delhi | Affiliated to VTU, Belagavi | Recognized by Govt. of Karnataka  
Accredited by NAAC 'A' | NBA Accredited Programs: CSE, CV, ECE, ISE & ME)

**Department of Electronics and Communication Engineering**

**Invited Talk on**

**"Enhancing Employability in Core Engineering Industries"**

Resource Person:  
**Prof. Jayaraman K Iyer**  
Former ISRO Senior Scientist

Venue:-  
ECE Seminar Hall,  
PESITM, Shivamogga

18<sup>th</sup> September, 2025



Fig 3 - Session for 5th and 7th Semester Students

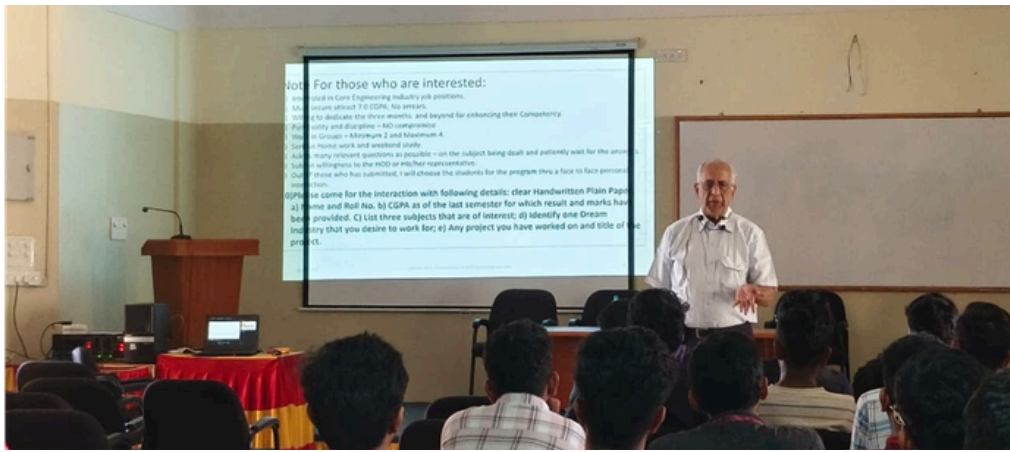


Fig 4 - Prof. Jayaraman K Iyer briefing about Research Skills

## Poster Presentation: E-Waste Management

A Glimpse of the "E-Waste Management" poster presentation event.



Fig 5 - Glimpse of Event

# SDP: Basic Electronic Components

From 10/10/2025 to 11/10/2025, Mr.Vayusutha M and Ms. Lavanya R, Assistant Professors, Dept. of ECE, PESITM, conducted a Skill Development Program on "Basic Electronic Components" for our 3rd-semester students.



Fig 6 - Glimpse of Session

# Faculty Publications and Conferences

## Papers Published

**Dr. Vishnu V M** - "Multi Objective - Trust Aware Improved Remora Optimization Algorithm Based Secure Clustering and Routing with Mobile Sink for Wireless Sensor Networks" in Journal of Technology, Volume 13 Issue 12, Dec 2025.

**Dr. Mahantesh P Mattada** - "A Comparative Study of Clustering Algorithms for MRI Spine Image Segmentation" in Journal of Information Systems Engineering and Management, 2025.

## Conferences Attended

**Mr. Vayusutha M** - Presented "Utility of Zero Frequency Filter for Robust Vowel Onset Point Detection" at IEEE International Conference on Distributed Computing, VLSI at P.A. College of Engineering, Mangalore, 2025.

**Dr. Mahantesh P Mattada** - Presented "Quantum Leap in Healthcare Security: The Role of Quantum Watermarking" at 3rd International Conference on Power Engineering at NIT Uttarakhand, 2025.

Additionally, Four faculty members have been successfully completed **NPTEL/Swayam online certification courses** during **AUG 2025-DEC 2025**.



**NPTEL ONLINE CERTIFICATION**  
(Funded by the MoE, Govt. of India)

This certificate is awarded to  
**ANIL KUMAR C**  
for successfully completing the course  
**Modern Digital Communication Techniques**

with a consolidated score of **42** %

Online Assignments	12.25/25	Proctored Exam	30/75
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Total number of candidates certified in this course: **99**

Jul-Oct 2025  
(12 week course)

Prof. Haimanti Banerji  
Coordinator, NPTEL  
IIT Kharagpur

Indian Institute of Technology Kharagpur

swayam

Roll No: NPTEL25EE13051168600013 To verify the certificate No. of credits recommended: 3 or 4



**Elite**  
**NPTEL ONLINE CERTIFICATION**  
(Funded by the MoE, Govt. of India)

This certificate is awarded to  
**MRS YASHASWINI N G**  
for successfully completing the course  
**Introduction to Internet of Things**

with a consolidated score of **75** %

Online Assignments	22.28/25	Proctored Exam	52.5/75
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Total number of candidates certified in this course: **50282**

Jul-Oct 2025  
(12 week course)

Prof. Haimanti Banerji  
Coordinator, NPTEL  
IIT Kharagpur

Indian Institute of Technology Kharagpur

swayam

Roll No: NPTEL25CS1475968600091 To verify the certificate No. of credits recommended: 3 or 4



**swayam** **ignou** **THE PEOPLE'S UNIVERSITY** **NETAJI SUBHAS OPEN UNIVERSITY**

**SWAYAM ONLINE COURSE CERTIFICATION**

This Certificate is awarded to  
**CHETHAN BR**  
for successfully completing the 2 credit course  
**Research and Publication ethics**  
with a consolidated score of 89% marks  
in the proctored examination held on 14-12-2025  
offered by **Dr. Anirban Ghosh** of  
**Netaji Subhas Open University, Kolkata**

Marks in Online Assignments		Marks in Proctored Exam		Total Score	
Total	Obtained	Total	Obtained	Total	Obtained
30	26	70	63	100	89

Roll No: KJK09910164

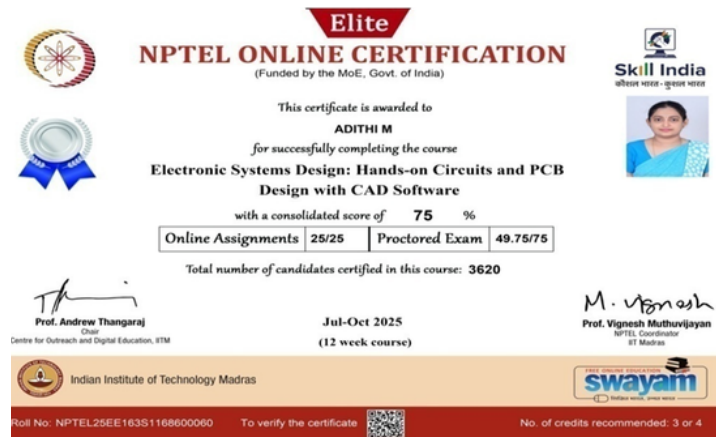
Prof. Uma Kanjilal  
National Coordinator  
Dira Gandhi National Open University, New Delhi  
Issued On: 21-01-2026

Smt. Ananya Mitra  
Registrar(Acting)  
Netaji Subhas Open University, Kolkata

Indian Institute of Technology Madras

swayam

Roll No: NPTEL25EE163S1168600060 To verify the certificate No. of credits recommended: 3 or 4



**Elite**  
**NPTEL ONLINE CERTIFICATION**  
(Funded by the MoE, Govt. of India)

This certificate is awarded to  
**ADITHI M**  
for successfully completing the course  
**Electronic Systems Design: Hands-on Circuits and PCB Design with CAD Software**

with a consolidated score of **75** %

Online Assignments	25/25	Proctored Exam	49.75/75
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Total number of candidates certified in this course: **3620**

Jul-Oct 2025  
(12 week course)

Prof. Andrew Thangaraj  
Chair  
Centre for Outreach and Digital Education, IITM

M. Vignesh  
Prof. Vignesh Muthuvijayan  
NPTEL Coordinator  
IIT Madras

Indian Institute of Technology Madras

swayam

Roll No: NPTEL25EE163S1168600060 To verify the certificate No. of credits recommended: 3 or 4

# Faculties acted as a Reviewers



# Invitation for Newsletter Articles

We are pleased to invite everybody to send their articles for future edition that can fit in the following structure.

- News items and announcements.
- Short, topical, news-oriented technical/ non-technical topics.
- Paintings, sketches, comics, poems, dag-writings, short stories etc.
- Major and minor technical articles are also accepted.
- Jokes, Punch dialogues and quotes of your own could be included.
- All of the above said matters could be in English or Kannada formats.

Please share the information with the below mentioned Email-IDs

[sangeethabs@pestrust.edu.in](mailto:sangeethabs@pestrust.edu.in), [hharishreem@gmail.com](mailto:hharishreem@gmail.com).

# Editorial Team

## Editorial Board

- **Patron:** Dr.Swamy D R (Principal, PESITM, Shivamogga)
- **Chief Editor:** Dr. OmPrakash Yadav (HoD, ECE Dept., PESITM, Shivamogga)
- **Editors:** Mrs. Sangeetha B S (Asst. Professor, ECE Dept., PESITM, Shivamogga)  
Ms. Triveni (3rd Sem ECE), Ms. Rakshitha M K (5th Sem ECE), Ms. Harishree (7th Sem ECE)

## Next Steps

We look forward to your continued contributions and engagement in the upcoming issues of PESITRONICS. Please share your achievements, innovative projects, and research endeavors with the editorial team.