

### Department of

## **Electronics & Communication Engineering**

Volume 1 Issue 1

January to July 2025

# PESITRONICS Imagination Becomes Reality

### **VISION**

To be a leading centre of excellence in the field of electronics and communication engineering for learning and research with professional ethics.

### **MISSION**

M1: To provide quality technical education for students to develop into globally competent professionals.

M2: To develop a framework for collaboration and multidisciplinary activities to ensure ethical and value based education to address social needs.

### **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 (PSOs)**

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.

## **STUDENTS ACTIVITIES/ ACHIEVEMENTS**

SL No.	Name of the Student	Event / Certification Course / Training Participated (Name, Organizer)	Date	Participation / Position
1	Sinchana Maane M Manasa S Byathnal	Digital Image Processing, Great Learning	01-05-2025	Completed
2	Pragna L N Gagandeep C N	Participated in "National Level 24 Hours,TCE - Hackfinity - 2025", organised by department of CSE & CSD, Tontadarya College of Engineering, Gadag.	9/05/2025 to 10/05/2025	Secured 4th Place
3	Punith Nellur	Completed Udemy course on " Python Complete Course for Python Beginners"	06-05-2025	Completed
4	Sanjana A	Introduction to C++ Programming: Build a Calculator, Coursera	30-04-2025	Completed
5	Sanjana S Prakruthi C R Rakshan S	Completed " Online Quiz on the Occasion of Dr. B. R. Ambedkar's Birth Anniversary",	20-04-2025	Completed
6	Sinchana Maane M	Completed Course on " Introduction to Digital Marketing", Springboard, Infosys	20-04-2025	Completed
7	Rakshan S Sanjana S Prakruthi C R	Participated in a Webinar on "Food, Planet, Health", Vegan Outreach.	15-04-2025	Attended
8	Anusha Bidarakatti Arpitha N Kavana M D Apoorva H S Chandana G T Deekshith K S Havala S Zabiulla Hediyal Keerthana K G Keerthana P B Madhu Patil	Completed the PMRF Course "Basics of Electromagnetics and Transmission Lines", Institute of Smart Structures and Systems. Department of Aerospace Engineering, Indian Institute of Science, Bengaluru	11/04/2025 to 23/04/2025	Course Completed

9	Sanjana A Rakshitha M K	"Cyber Safety and Hygiene Practices Assessment", Information Security Education and Awareness, Ministry of Electronics and Information Technology,	04-04-2025	Certified as " Cyber Cadet", Scored 76%
10	Shreyas B V	Participated in "VTU 24th State Level Youth Festival" , INTERACT - 2025", held at Global Academy of Technology, Bengaluru	24/03/2025 to 27/03/2025	Participated
11	Samhitha S Sanjana S	Presented a Paper Titled on "A Survey on EEG Data Analysis in Cardiac Arrest Patients", in International Conference on Intelligent Electronics and Communication Devices (IECom 2025), Organised by Department of ECE, in Association with AICTE IDEA LAB, School of Engineering, Mohan Babu University, Tirupathi-517201, Andhra Pradesh, India	12/03/2025 to 14/03/2025	Presented Paper
12	Shreya Sawan	"Solutions Architecture Job Simulation", Forage	24-02-2025	Course Completed
13	Shreya Sawan	"Virtual Internship", Trainity	20-02-2025	Course Completed
14	Rakshan S	One Month Virtual Internship in "Python Development", ShadowFox	01/02/2025 to 28/02/2025	Course Completed
15	Sushmita Suresh Hegde	Two day offline Workshop on "Semiconductor Manufacturing", Conducted by Ethical Edufabrica Pvt. Ltd, in Association with Pragvega 25, at IISC Bangalore	1/02/2025 to 02/02/2025	Course Completed

16	Rahul R Chitragar Bhavana B Thejaswini B Rahil N Poornima M T Pooja M J Rakshan S Prakruthi C R	Completed "Skill Development Training in Industrial Immersion on 14.0 Solutions and IOT", Bosch Vocational Center	7 Days	Attended
17	Subah Suhana Sanjana A	" Best Out of Waste", Event conducted as a part of PRERANA, 2025	17-02-2025	1 <sup>st</sup> Place
18	Shreyas B V	" Group Singing", Event conducted as a part of PRERANA, 2025	17-02-2025	2 <sup>nd</sup> Place
19	Shreyas B V	"SOLO Singing", Event conducted as a part of PRERANA, 2025	17-02-2025	3 <sup>rd</sup> Place
20	Sanjana A	"UX100 Meter Relay", Event conducted as a part of PRERANA, 2025	17-02-2025	1 <sup>st</sup> Place

	Cadence Training Course				
13 14 15 16 17 18 19	Rohith Gowda B L Rahil N Rakshan S Punith C Preetham K P Prakruthi C R Prajwal T H Prajwal Dsouza Pavan Kumar V Pavan H M Siri Ramesh Hitlalli	RTL to GDSII Flow V6.0	13-05-2025 12-05-2025 12-05-2025 12-05-2025 11-05-2025 11-05-2025 11-05-2025 11-05-2025 11-05-2025 11-05-2025 11-05-2025 11-05-2025 11-05-2025 11-05-2025 11-05-2025 11-05-2025 11-05-2025 11-05-2025 11-05-2025 11-05-2025 11-05-2025 10-05-2025	Course Completed	

	Cadence Training Course				
24 25 26 27 28 29 31 32 33 33 33 33 33 34 44 44 44 44 45 51 51 51 51 51 51 51 51 51 51 51 51 51	Shivu C PUNITH Nellur Soundarya P Shreeraksha S R Tejas S C Pradyumn D Tanushree H M Spoorthi M R Srushti Ashok Shravani H Sameer Deshpande Rakshitha C Pooja M J Spoorthi V N Sanjana S Varsha G C Sandhya B V Pramod G Ruchitha C S Sinchana Maane M Sanketha Mahale Samhitha S Sinchana N Rajshekar C D	RTL to GDSII Flow V6.0	10-05-2025 10-05-2025 09-05-2025 09-05-2025 09-05-2025 07-05-2025 07-05-2025 07-05-2025 07-05-2025 06-05-2025 06-05-2025 05-05-2025 05-05-2025 05-05-2025 05-05-2025 05-05-2025 26-04-2025 26-04-2025 26-04-2025 26-04-2025 26-04-2025 26-04-2025 26-04-2025 26-04-2025 26-04-2025 26-04-2025 24-04-2025 24-04-2025 24-04-2025 24-04-2025 24-04-2025 24-04-2025 24-04-2025 24-04-2025 24-04-2025 24-04-2025 24-04-2025 23-04-2025 23-04-2025 23-04-2025 23-04-2025 23-04-2025 23-04-2025 23-04-2025 23-04-2025 23-04-2025 23-04-2025 23-04-2025 23-04-2025 23-04-2025 23-04-2025 23-04-2025 23-04-2025 23-04-2025 23-04-2025 23-04-2025	Course Completed	

NPTEL Course					
1	Gagandeep C N	Introduction to Industry 4.0 and Industrial Internet of Things	January – April 2025	62%	
2	Aditya M Khiroji	Programming in Python	January - May 2025	89%	
3	Lakshmi Sagar K N Likitha L H Sinchana Maane M Prajwal Gurusidda Khaded	Cloud Computing	January – April 2025	55%	
4	Candana K A	Introduction to Machine Learning	January - April 2025	56%	
5	Pavan Kumar V	Network Security	January - April 2025	51%	
6	Rahul R Chitragar	Introduction to Industry 4.0 and Industrial Internet of Things	January - April 2025	75%	
7	Aishwarya Rathod	Network Security	January - April 2025	49%	
8	Deekshith K S	Programming in Java	January - April 2025	55%	
9	L V Charan Bhavana B Chethana Ganesh Gurjer Madan U Hanoka P Keerthana R	CMOS Digital VLSI Design	January - March 2025	45%	



### STUDENT PLACEMENTS (JAN 2025-JULY 2025)









CHETHAN K



SHASHANK N P



SRINIVAS GOWDA K R



HARSHA G N



**NISCHAL S** 



**BHUVANA D T** 



VISMITHAK K B



KAVANA V R



DEEKSHA K S



ASHA M K



CHETHAN K





**SUNIL M** 



**VISHWAS V S** 



**MANOJA E** 



**TARUN Y M** 



**NISCHTHA N** 



PRAVEEN T R



ARUN M K



**SUMANTH P** 



SINDHU T





**NISCHTHA N** 





**CHETHAN K** 



**NISARGA G M** 





PRIYA Y S





## Student Development Program on "RF Circuit and Antenna Design"

The Department of Electronics and Communication Engineering successfully conducted a three-day Student Development Program (SDP) on "RF Circuit and Antenna Design" from 20th March to 22nd March 2025.

### **Resource Persons**

The program featured sessions from two distinguished resource persons from NXP Semiconductor Pvt Ltd, India:

Mr. Shambulingappa Vadeyanapur Senior Lead-RF Engineer Mr. Santosh R

Analog & Mixed Signal

Competence Group Leader







Hands on Sessions on Antenna Design



Felicitation to the Resource Persons

## SINGING COMPETITION ORGANISED BY DEPARTMENT OF E&C IN VIEW OF PRERANA – 2024–25









## One-day workshop on "Patent Drafting and Filing Procedures"

Department of Electronics and Communication Engineering in association with IQAC and IIC organised a hands-on workshop on "Patent Drafting and Filing Procedures" on 13 th March 2025.

Dr. Santosh M Nejakar is a Professor and Head of the Department of EEE and Dean-R&D at Jain Institute of Technology, Davanagere.









## **ACTIVITIES/ACHIEVEMENTS OF FACULTIES**

### PAPER PUBLISHED BY FACULTIES IN JOURNALS

Paper titled on "A Comparative Study of Clustering Algorithms for Mri Spine Image Segmentation: Fuzzy C-Means, Region Growing, K- Means and Expectation-Maximization" by Dr. Mahantesh P Mattada in the Journal of Information Systems Engineering and Management, 2025.

Paper titled on "A Nonlinear Approach to FECG Signal Enhancement using an Ensemble of Convolutional Neural Networks", by Dr. Om Prakash Yadav in the journal of Communications on Applied Nonlinear Analysis, 2025.

Paper titled on "Fetal ECG Signal Analysis with Bi-directional Long Short-Term Memory Networks for Neonatal Applications", by Dr. Om Prakash Yadav in the journal of Neonatal Surgery, 2025.

Paper titled on "Optimizing neural radiance field: a comprehensive review of the impact of different optimizers on neural radiance fields", by Dr. Mahantesh P Mattada in the journal of Bulletin of Electrical Engineering and Informatics,Feb 2025.

### CONFERENCES ATTENDED BY FACULTIES

Dr. Narayanaswamy G, Mrs. Malashree K S and Mrs. Adhithi M attended and presented a paper on "Enhancement using Python: A Novel Approach to reducing noice, blur and artifacts for Superior diagnostic Precision" Organized by 4th International Conference on Recent advances in Electrical, Electronics, Ubiquitous communication and Computational Intelligence, 2025.

Vayusutha M attended and presented a paper on "Spatiotemporal Patterns in air pollution: A hybrid machine learning for composite AQI prediction (Wonbest paper award)" Organized by 5th National Conference on "Next generation Intelligence in Electronics and Communication Engineering", 2025.

Dr. Mahantesh P Mattada attended and presented a paper on "Enhancing performance and Security measures in modern automated environments" Organized by AIP Conference Proceedings, 2025

### NPTEL CERTIFICATIONS BY FACULTIES

6 Faculties have completed NPTEL online certification courses during JAN 2025-JULY 2025.



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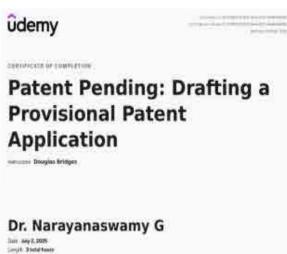
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### **FACULTIES ACTED AS A REVIEWERS**











NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY

3" IEEE International Conference on Networks, Multimedia and Information Technology

01-02 | August 2025

### CERTIFICATE OF REVIEWER RECOGNITION

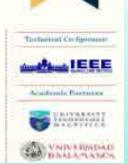
This is to recognize the contribution of

#### Dr. Om Prakash Yadav

as REVIEWER for 3rd IEEE International Conference on Networks, Multimodia and Information Technology (NMITCON) organized at Nitte Meenakshi Institute of Technology, Bengahiru, INDIA on 1rd and 2rd August 2025 in association with IEEE Burgalore Section.



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### **FACULTIES ACTED AS A REVIEWERS**





### **INVITATION FOR NEWSLETTER ARTICLES**

We are pleased to invite everybody to send their articles for future editions 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, hharishreem@gmail.com, nischalraj.8024@gmail.com,

Patron

Dr. Swamy DR, Principal, PESITM

**Editorial Team** 

Dr. OmPrakash Yadav, HoD, Dept of ECE, PESITM (Chief Editor)

Mrs. Sangeetha B S, Asst. Professor, Dept. of ECE, PESITM

Ms. Rakshitha M K (4thSem, ECE)

Ms. Harishree (6thSem ECE) Mr. Nischal S (8thSem, ECE)

