



Er. PERUMAL MANIMEKALAI COLLEGE OF ENGINEERING

Accredited by NAAC WITH 'A' GRADE & NBA (B.E - CSE|ECE | EEE| MECH & B. TECH - IT)

Approved by AICTE, New Delhi | Affiliated to Anna University, Chennai | ISO 9001:2015 Certified

(AN AUTONOMOUS INSTITUTION)

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ANNUAL NEWS LETTER

2022-23 ACADEMIC YEAR

DEPARTMENT OF ELECTRONICS AND
COMMUNICATION ENGINEERING

PMC -TECH -ECE
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Shri. P. Kumar -Chairman

Patrons:

Smt. P. Mallar- Secretary

Smt. S. Sasirekha- Trustee

Co.Patron

Dr.S.Chitra-Principal

HOD

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Contents:

PMC Tech-An Overview

Electronics & Communication Engineering - Overview

Symposium 2k22

Guest Lectures

Training Programs

Professional Bodies Events

MOU Activity

Professional Body Membership

Faculty Development Programme

From the Founder's Desk



“Make of us the hero warriors we inspire to become. May we fight successfully the great battle of the future that has to be won against the past that seeks to endure, so that the new things may manifest and we are ready to receive them”

Er. P. Perumal,

PMC TECH - Group of Institutions

Welcome to PMC TECH, where academics and activities never end and the students are molded as future technocrats and business leaders. The Institute works on the vision to become one of the leading centers of teaching, research and extensions in the field of Engineering and Technology through total commitment towards quality education and training. We instill our students with the strength of character, self-confidence technical competence and leadership in management.

We propagate knowledge to the students with the help of dedicated faculty, state-of-the-art library and well-equipped labs along with audio-visual theatre. The institute has an enviable track record of academic excellence, which is coupled with hands-on industrial training, and innumerable industry-institute interaction, which makes each PMC TECH student ready to be absorbed in the company.

From the Chairman's Desk



“The Institute not only extends good campus and state of the art computing facilities to the Students but also aims at giving those competencies that will make them leaders and trendsetters in their respective field, in this age of competition”

Shri. P. Kumar,
Chairman,

PMC TECH is committed to develop young minds for creative leadership in business and a proactive and useful role in social transformation. Today the need for being proactive and constructive is more acute than ever before due to the sweeping change influencing every aspect of our life. Therefore, there is need for action based on holistic training of youth to take on varied challenges of life.

An opportunity to study at PMC TECH empowers a student to acquire knowledge and develop skills that will enable him to lead a highly productive, rewarding and holistic life. As a part of PMC TECH's commitment towards quality technical education and excellence, we embarked on promoting Faculty Development Program, Seminars, Workshops and Conferences, which will keep the faculty and students abreast of their field.

From the Trustee's Desk



“The goal of education is the advancement of knowledge and the dissemination of truth”

***Smt. P. Mallar,
Trustee***

The rapid rate of technological advancement and the information revolution have opened new series of challenges as well as opportunities. We aim to prepare the students to be successful in their workplace. It aims to prepare the students with technical knowledge and capabilities, flexibility and an understanding of the societal context of corporate world.

We give the students support and encouragement they need to reach their full potential. We strive to give professional education a new perspective and achieve perfection in all spheres. We provide a pleasant & intellectually stimulating environment. The main reason for our tremendous performance is the faculty, which makes PMC TECH stand out from the rest of engineering colleges and Institutes. I wish to assure all concerned that no efforts will be spared to bring PMC TECH as one of the top Technical education Institutions.

From the Trustee's Desk



“Education is the ability to listen to almost anything without losing your temper or self-confidence”

***Smt. S. Sasirekha,
Trustee***

PMC TECH is committed to creating an ambience for nurturing innovation, creativity and excellence in our students. We aim to prepare the young engineers and managers to confidently and competently face the challenges of intensifying competition by imparting high quality technical and managerial education coupled with appropriate training and wide exposure to the state-of-art practices. Our educational programmes lay emphasis on all round personality development and also in inculcating human values and professional ethics which help our students become more humane and socially alive to lead a meaningful life.

This newsletter will help the students and faculty members to make them aware of different activities of their department as well as the other departments and will develop a better culture and academic environment. Further this will boost the morale of students and faculty to participate in future activities.

From the Principal's Desk



“I believe that education is not just about teaching curriculum, it is also about the development of human intellect, capability to think independently and speak articulately. Through numerous student activities the college imparts all these life skills in students. Education in PMC TECH also emphasizes on development of personality, inter-personal skills and instilling the right values”

**Dr. S. Chitra,
Principal**

With a devoted and highly qualified set of faculty members, well provided infrastructure and efficient administrative staff, we always impart best education by giving in depth knowledge in the subject. We know that mere education does not make you a complete man / woman. With our rich library, we want you to develop reading habits. We always endeavor that when student go out. They should be recognized as highly knowledgeable, amiable, active and greatly trust worthy individual.

Thanks to the educationally committed management, we have the reputation that we provide all the facilities and amenities. May be because of all these, I am thankful to all my colleagues who are striving hard to establish PMC TECH as one of the leading Engineering Institutions.

From the HOD's Desk



"Education is the key to unlock the golden door of freedom"

**Dr.S.Senthilkumar
Hod/ECE**

Electronics and Communication Engineering is the branch that deals with designing and testing circuits which use the electromagnetic property of electronics components such as resistors, capacitors, inductors and transistors to achieve a particular functionality. The theoretical, together with the practical content of the course provides a thorough knowledge of the core concepts relating to transmission of signals along the globe. Our aim is to develop young technocrats, ability to solve design-oriented problems in electronic circuits, communication systems and signal processing. Electronics and Communication engineers have good employment opportunity in Smart Phones, Microwave, Satellite communication, Telecommunication, Embedded systems, VLSI Design and IT domain.

PMC TECH-AN OVERVIEW

PMC TECH group of Institutions consisting of Engineering College, polytechnic and ITI were established in the year 1996 by Er.Perumal B.E, M.I.E, FIV, Our founder and Chairman and sponsored by **Er.Perumal Manimekalai Telugu Minority Educational and Charitable Trust. It is situated closer to the Industrial Hub, Hosur, Tamilnadu. Er.Perumal Manimekalai College of Engineering, established in the academic year 2002-2003 is Approved by All India Council for Technical Education (AICTE)** and affiliated to Anna University. PMC TECH creates unique opportunities, provides individualized educational challenges, promotes high order thinking skills and maintains a strong tradition of academic excellence for students. The college is equipped with world class infrastructure and highly qualified, experienced faculty members. An active Placement Training and Welfare Cell is functioning with full enthusiasm with the aim of placing the students in top-notch companies. PMCTECH, a premier institution for higher education seeks to impart value added technical education and always aiming at excellence along with inculcation of ethical, moral, & professional values, with national welfare in heart.

VISION AND MISSION OF THE DEPARTMENT

VISION

To impart excellent technical knowledge in Electronics and Communication Engineering with interdisciplinary and innovative approach to address global and societal need

MISSION

M1: To provide quality infrastructure, resources and education in Electronics and Communication Engineering through innovative methods of teaching with practical orientation for a successful career.

M2: To prepare Electronics and Communication Engineering graduates to meet global challenges by implementing Engineering values and quest for modern technologies.

M3: To inculcate leadership qualities among students for self and societal growth.

M4: To develop skills for lifelong learning to solve societal problems.

LABORATORY FACILITIES

To meet the curriculum requirements, the following laboratory facilities are available in the department. In addition to the above mentioned laboratory facilities, additional research labs were also made part of the department facilities to initiate research interest in students.

S.No.	NAME OF THE LABORATORY
1.	Electronics and Circuit Devices laboratory
2.	Digital System Design Laboratory
3.	Communication systems Laboratory
4.	Network Security Laboratory
5.	Digital Signal Processing Laboratory
6.	VLSI Laboratory
7.	Linear Integrated Circuits Laboratory
8.	Microprocessor & Microcontroller Laboratory
9.	Optical & Microwave Engineering Laboratory

Guest Lectures (MoU activities)

S.NO	PROGRAMME	CHIEF GUEST	PARTICIPANTS	DATE
1	Circuit Debugging for 4G/5G Mobile Phones	Dr.S.Rasadurai M.E.Ph.D, Professor, department of electronics and communication engineering, kuppam	54 III year ECE students	17/04/2023
2	Mobile Trouble Shooting	Mr.M.krishnakumar Managing Director ,New Technology Mobile Service Training Institute,Coimbatore	54 III year ECE students	10/04/2023 to 11/04/2023
3	Electronics circuit Design	Mr.B.Krishnakumar, Managing Director ,New Technology Mobile Service Training Institute,Coimbatore	120 II year ECE students	23/09/2022 to 24/11/2022
4	Augmented Reality	Mr.Ejaz Ahamed Senior Product developer ,Gusto Valley Technovations, Hosur	54 IV year ECE students	14/10/2022 to 15/10/2022
5	Workshop/Embedded using PIC & ARM	Mr.Samarth Kulkarni Embedded System Engineer, Edgate Technologies Bengaluru.	IV Year ECE 57 Students	06.01.2023 & 07.01.2023 (Two days)

SEMINARS:(Professional Body Activities)

S.N	PROGRAMME TOPIC	RESOURCE PERSON	PARTICIPANTS	DATE

1	Technical Seminar on “Light Fidelity”	Dr.SrikanthItapu, The Chair, Department of ECE, Alliance University, Bengaluru.	57/IV Year ECE	26/11/2022
2	Technical Seminar on “Discrete Time Signal Processing”	Dr.J.Sivakumar Associate Professor , St.Joseph’s College of Engineering,Chennai.	54/III Year ECE	26/11/2022
3	Technical Seminar on “5G Antenna Technology”	Mr.Prabhu M.E .,(Ph.D) Assistant Professor, Department of ECE, R.M.D. Engineering College,Chennai.	57/IV Year ECE	25/11/2022
4	Technical Seminar on “Alternative Energy Solar Cells”	Dr.S.Sivaramakrishnan .Ph.D Associate Professor,Department of information Science Engineering ,Bengaluru.	124/II year ECE	19/11/2022
5	Ultrasound & MRI Imaging Techniques	D.Vijayan M.E Director Breath first Technologies Pvt Ltd	57 IV year ECE student	24/04/2023
6	Effectiveness of Digital filters in signal processing	Dr.J.Sivakumar Associate Professor , St.Joseph’s College of Engineering,Chennai.	120 II year ECE students	03/05/2023

7	Technical Seminar on Signals & Systems	Dr.V.Lingasamy .M.E.,Ph.D, Manager,R&D,Rakuten Mobile Inc, Bengaluru.	II year ECE Students (120)	17.12.2022
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NATIONAL LEVEL TECHNICAL SYMPOSIUM 2K22

On 15th November 2022 the National Level Technical Symposium ELECTROVISION – 2K22 was organized by our department .The Chief Guest Dr.Naveed Khan Retd.Health and safety manager from Biocon, Bangalore, Smt.P.Mallar the Trustee, Er.P.Kumar the Secretary and Dr.S.Chitra the Principal, of our college , Dr.S.Senthilkumar HOD were present for the Inaugural Function .In this programme, Paper Presentations of various colleges from Tamilnadu, Karnataka and Andhra Pradesh were presented in the area of VLSI Design, Communication System, Digital Signal Processing, Image Processing and Real Time Embedded Systems etc.,

Chief Guest

Dr.Naveed Khan

Retd. Health and safety manager,

presentation “National Level Technical Symposium 2k22”

Presentation by the participant “National Level Technical Symposium 2k22

SYMPOSIUM DETAILS

S.NO	PROGRAMME	CHIEF GUEST	PARTICIPANTS	DATE
1	SYMPOSIUM “ELECTROVISION 2K22”	Chief Guest Dr.Naveed Khan Retd. Health and safety manager, Bangalore.	Various Other College Students and PMC College Students	15.11.2022



INDUSTRIAL VISITS

Department	Company Visited	Date	Students	Participation
ECE	ISRO	01.09.2022	54 ECE III YEAR STUDENTS	40
ECE	ISRO	21.01.2023	120 ECE II YEAR STUDENTS	120

FACULTY PUBLICATIONS:

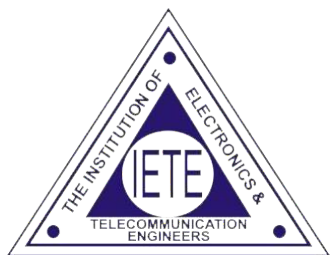
S. No.	Name of the Faculty	Title of the Paper	Publication Name
1	Dr.V.Senthilkumar	Selfish Node Detection for Effective Data Transmission Using Modified Incentive Sorted Pathway Selection in Wireless Sensor Networks	the journal of Wireless Communications and Mobile Computing
2	Dr.V.Senthilkumar	Improved Artificial Neural Network with State Order Dataset Estimation for Brain Cancer Cell Diagnosis	the journal of BioMed Research International

FACULTY DEVELOPMENT PROGRAM

S. No.	Name of the Faculty	Title of the Event	Organization	Date
1	Dr.V.Senthilkumar	ATAL IDEA lab Basic FDP	AICTE-Visvesvaraya Technological University, Bengaluru	19/12/22 to 23/12/22
2	Mr.N.Kirubakaran	Atal Idea Lab Electronic System Design	AICTE-Visvesvaraya Technological University, Bengaluru	16/01/2023 to 21/09/2023
3	Dr.V.Senthilkumar	Pedagogical Strategies for 21st Century Learners	National Institute of Technical Teacher Training and Research ,Chennai	09/01/2023 to 13/01/2023
4	Dr.S.Senthilkumar	Pedagogical Strategies for 21st Century Learners	National Institute of Technical Teacher Training and Research ,Chennai	09/01/2023 to 13/01/2023
5	Dr.M.usharani	Pedagogical Strategies for 21st Century Learners	National Institute of Technical Teacher Training and Research ,Chennai	09/01/2023 to 13/01/2023
6	Mr.M.Kumar	Pedagogical Strategies for 21st Century Learners	National Institute of Technical Teacher Training and Research ,Chennai	09/01/2023 to 13/01/2023
7	Mr.G.Umamaheshwaran	Pedagogical Strategies for 21st Century Learners	National Institute of Technical Teacher Training and Research ,Chennai	09/01/2023 to 13/01/2023
8	Mr.N.Kirubakaran	Pedagogical Strategies for 21st Century Learners	National Institute of Technical Teacher Training and Research ,Chennai	09/01/2023 to 13/01/2023

9	Ms.S. Swetha	Pedagogical Strategies for 21st Century Learners	National Institute of Technical Teacher Training and Research ,Chennai	09/01/2023 to 13/01/2023
10	Dr.V.Senthilkumar	Digital Marketing	Naan Mudhalvan From Knowledge Institute of Technology	13/02/2023 to 13/02 /2023
11	Mr.M.Kumar	Fundamentals of Electronic Materials & Devices	NPTEL-AICTE FDP	Jan to March 2023 8 Weeks
12	Mr.M.Kumar	Blooms Taxonomy in Teaching & Learning	Nobel Profession Foundation ,Ministry of Corporate Affairs,Government of India	16 th Febrauary 2023
13	Mr.G.Umamaheshwaran	Mentoring Pedalgy and Incorporation of ICT techniques	Organized by IETE held at Paavai Engineering College	30/01/2023 to 04/02/2023
14	Mr.G.Umamaheshwaran	Recent Trends in Image Processing & its Applications	Velammal Institute of Technology	21/09/2022 to 27/09/2022

Professional Bodies:



IETE stands for the Institution of Electronics and Telecommunication Engineers. It is a professional society in India that focuses on the field of electronics and telecommunications engineering.

Memorandum of Understanding (MoU's):

The ECE Department made Memorandum of Understanding (MOU) with companies such as **SANARYS Private Limited, Bangalore, Gusto valley Technovations Pvt,Ltd, Hosur, New Technology Mobile Service Training Institute, Coimbatore** for providing Workshops, Seminars, add on courses and training programs

List of Students Office Bearers

S.No	Responsibility	Name of the Student	Year	School Education	CGPA	
1	PRESIDENT	MOGAMATH JALEELL.A	IV	Sri Vijay Vidhyalaya Matric Hr. Sec School, Krishnagiri	8.7	
2	VICE PRESIDENT	PADMA PRIYA.P	IV	St. Annes Girls Hr.Sec School, Krishnagiri	8.8	
1	SECRETARY	Ms.K.SANDHIYA	III	MTV Matric Hr. Sec School, Mallinayapalli	8.7	
2		Mr.S.ABISHEK	III	Sri Vijay Vidhyalaya School, Hosur	8.6	
3		Ms.S.VARSHINI	II	Sri Vijay Vidhyalaya Matric Hr. Sec School, Krishnagiri	8.0	
4	JOINT SECRETARY	Ms.S.POOVIZHI	II	St. Annes Girls Hr.Sec School, Krishnagiri	8.5	
5		Ms.V.BHUVANESHWARI	II	PMC Polytechnic College	7.76	
6		Mr.S.SASIKUMAR	II	Don Bosco Matric Hr. Sec School, Dharmapuri	7.8	