



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

2021-22 ACADEMIC YEAR

DEPARTMENT OF ELECTRONICS AND
COMMUNICATION ENGINEERING

PMC -TECH -ECE
ANNUAL NEWS
LETTER

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Chief Patron:

Shri. P. Kumar -Chairman

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Smt. P. Mallar- Secretary

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Dr.S.Chitra-Principal

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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

“Welcome to the Department of Electronics and Communication Engineering which is imparting knowledge through teaching and creating implementation of practical aspects as a part of the Engineering Education.

Dr.M.Vijayakumari

The Department of Electronics and Communication Engineering works with the objective of addressing critical challenges faced by the Industry, Society and the Academia. Perhaps even more important is our unceasing commitment to our students, helping them to learn, grow, develop and achieve their goals in their pursuit to excel in their professional career. The Faculty and students of our department are engaged in acquiring cutting edge technology and the excellent infrastructure facilities available the department allows them to develop into pushing the boundaries of the state of the art of technology. The students are encouraged to take part in co-curricular and extracurricular activities. Implant training in the industries and Research centers which are intended mandatory for all the students so that the teaching, learning process will match with the Industry/ Research centre expectations. My best wishes and greetings to all the students who are aspiring to become Civil Engineers and take India to the forefront of developed nations.

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.

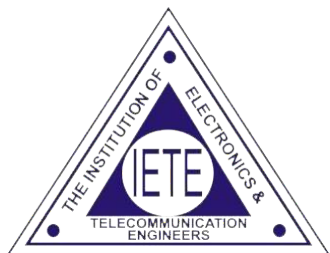
M4: To develop skills for lifelong learning to solve societal problems.

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 |

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

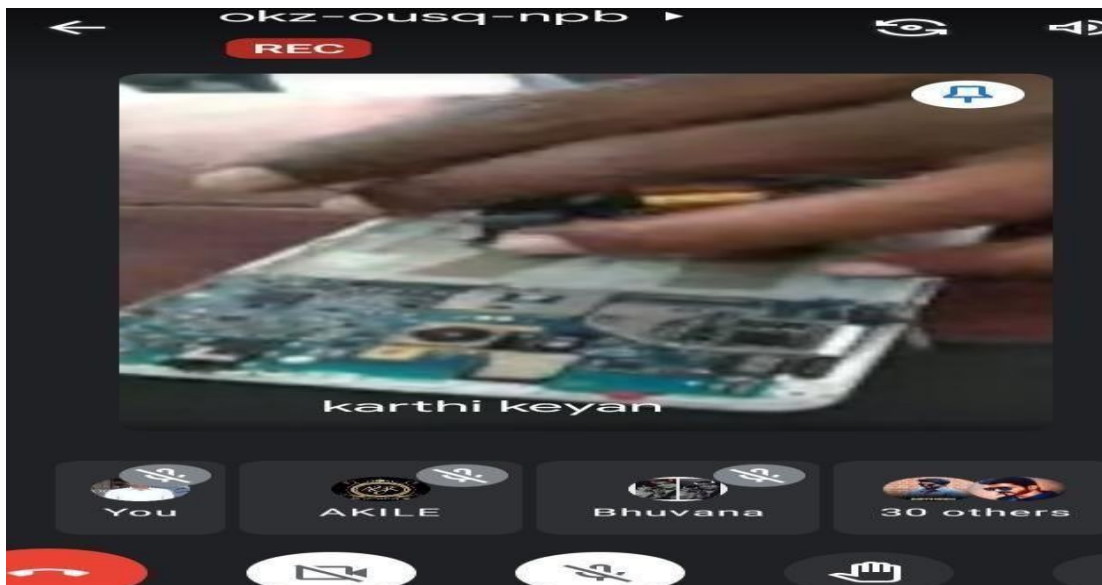
Value Added Program:

1.Add-on course on " PCB design using Pspice" – 09.05.2022 – 14.05.2022

Six days add-on course on " PCB design using Pspice" was conducted from 09.05.2022 to 14.05.2022. Around 55 students of ECE IInd year had participated in this program. We have invited the resource persons Mr. Ejaz Ahmed & Ms. S. Jamuna, Embedded Engineer, Gusto valley Technovations, Hosur.

2. Virtual Add-on course on “ Trouble shooting of mobile circuits” – 23.09.2021

One day virtual add-on course on “Trouble shooting of mobile circuits” was conducted on 23.09.2021. Around 42 students of ECE IInd year participated in this program. We have invited there source person Mr. B. Krishna kumar, Managing Director, New Technology Mobile Service Training Institute, Coimbatore.



3. Virtual Add-on course on “Industrial applications of IoT”–26.10.2021

One day virtual add-on course on “Industrial applications of IoT”– was conducted on 26.10.2021. Around 48 students of ECE IIIrd year participated in this program. We have invited the resource person Mr.Ejaz Ahmed, Embedded Engineer, Gusto valleyTechnovations,Hosur



4. Add-on course on “ Embedded using PIC and ARM”– 25.04.2022-30.04.2022

Six days add-On course on “ Embedded using PIC and ARM ”– was conducted from 25.04.2022 to 30.04.2022. Around 56 students of ECE IVth year had participated in this program. We have invited the resource person Mr.G.Jaisarathy, Embedded Project Developer, Innovation on next



5. Add-on course on "PCB design using Pspice" –09.05.2022– 14.05.2022

Six days add-on course on " PCB design using Pspice" was conducted from 09.05.2022 to 14.05.2022. Around 55 students of ECE IInd year had participated in this program. We have invited the resource persons Mr. Ejaz Ahmed & Ms. S. Jamuna, Embedded Engineer, Gusto valley Technovations, Hosur.



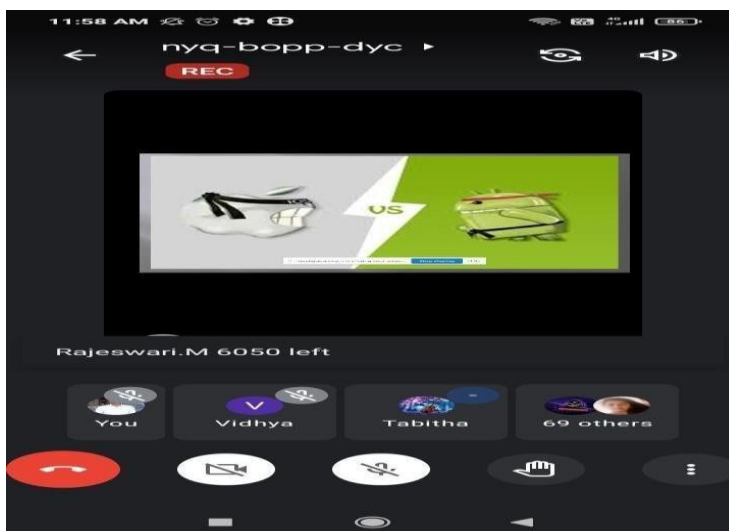
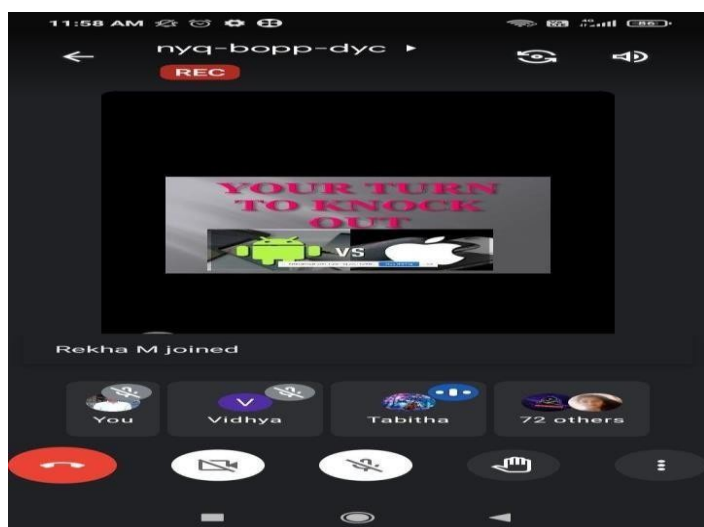
VIRTUAL ALUMNIET

Alumni meet was organized by ECE department on 31st October 2021 to create a new idea and relationship between current students and alumni's. Some of the alumni's shared their experience and guided the current students about current expectation in the industry to make them industry ready person.

ENGINEER'SDAY



Engineer's day" on 15th September 2021 was celebrated by organizing various events like technical quiz, techno talk, find the brand and technical debate among the participants This was very useful to develop students skill.



ADD-ONCOURSES

| S.N 0 | PROGRAMME TOPIC | RESOURCEPERSON | PARTICIPANTS | DATE |
|----------|---|--|--|--------------------------------|
| 1 | Virtual Add-On course on "Trouble shooting of mobile circuits" | Mr.B. Krishna kumar,Managing Director,New Technology Mobile Service Training Institute ,Coimbatore. | II nd Year ECE Students | 23.09.2021 |
| 2 | Virtual Add-On course on "Industrial applications of IoT" | Mr.Ejaz Ahmed ,Embedded Engineer, Gusto valleyTechnovations LLP,Hosur. | III rd Year ECE Students | 26.10.2021 |
| 3 | Add-on Course On "Embedded using PIC and ARM" | Mr.G.Jaisarathy Embedded Project Developer, Innovation on next Chennai. | IV th Year ECE Students | 25.04.2022 to30.04.20 22 |
| 4 | Add-on Course on"PCB design using Pspice" | Mr.Ejaz Ahmed ,Embedded Engineer, Gusto valley Technovations ,Hosur. &Ms.S.Jamuna, Embedded Engineer, Gustovalley Technovations ,Hosur. | II nd Year ECE Students | 09.05.2022 to14.05.20 22 |

GUESTLECTURE

| S.NO | PROGRAMME | CHIEFGUEST | PARTICIPANTS | DATE |
|------|-------------------------------------|--|--|------------|
| 1 | Ultrasound & MRI Imaging Techniques | D.Vijayan M.E Director Breath first Technologies Pvt Ltd | 57 IV Th year ECE student | 24/04/2022 |
| 2 | Integrated circuits | Dr.S.Ravi, Associate Professor, Department of ECE Gudlavaluru Engineering College, Krishna ,Andhra Pradesh. | 120 II nd Year ECE Students | 16.05.2022 |
| 3 | Microprocessor applications | Dr. P.Anandan. ,Associate Professor ,Department of ECE, VelTech Rangarajan Dr.Sagunthala R&D Institute Of Science and Technology ,Chennai. | 54 III rd Year ECE Students | 30.04.2022 |

List of Students Office Bearers

| S.No | Responsibility | Name of the Student | Year | School Education | CGPA |
|------|-----------------|---------------------|------|---|------|
| 1 | PRESIDENT | AISWARYA G | IV | MTV Matric Hr. Sec School, Mallinayapalli | 8.7 |
| 2 | VICE PRESIDENT | SIVAKUMAR C | IV | Sri Vijay Vidhyalaya School, Hosur | 8.6 |
| 3 | | SANDHIYA.S | III | Sri Vijay Vidhyalaya Matric Hr. Sec School, Krishnagiri | 8.0 |
| 4 | SECRETARY | MOGAMATH JALEELL.A | III | St. Annes Girls Hr.Sec School, Krishnagiri | 8.5 |
| 5 | JOINT SECRETARY | PADMA PRIYA.P | Ii | PMC Polytechnic College | 7.76 |
| 6 | | MENAKA.N | III | Don Bosco Matric Hr. Sec School, Dharmapuri | 7.8 |
| 7 | TREASURER | Mr.S.ABISHEK | II | Sri Vijay Vidhyalaya Matric Hr.Sec School, Krishnagiri | 7.7 |
| 8 | | Ms.K.SANDHIYA | II | St. Anne's Girls Hr. Sec School, Krishnagiri | 8.2 |