



509, Er.PERUMAL MANIMEKALAI POLYTECHNIC COLLEGE
NBA Accredited : Chemical | CSE | ECE | EEE | Mech | T&D | E(Robotics) | ISO 9001 : 2015 Certified
(Approved by AICTE, New Delhi and Government of Tamil Nadu)
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DEPARTMENT OF MECHANICAL TOOL&DIE ENGINEERING

Vision of the Institution

PMC Tech –Polytechnic College shall emerge as a premier Institute for valued added technical Education coupled with Innovation, Incubation, Ethics and Professional values.

Mission of the Institution

- To foster the professional competence through excellence in teaching and learning.
- To nurture overall development of students by providing Quality Education & Training.
- To provide innovative environment to learn, innovate and create new ideas for the betterment of oneself and society

Vision of the Department

To develop eminent, innovative and professional Tool and Die Diploma holders by imparting value added education embedded with employable skills.

Mission of the Department

- To provide competency based quality Tool and Die Engineers by strong theoretical and Practical training.
- To provide breeding ground for innovation and leadership through skill development in Tool Design.
- To enhance continual career development and improve employability skills

Program Educational Objectives (PEOs)

- Have a successful career in the field of the Tool and Die Engineering Design, Manufacturing Maintenance and inspection
- Become a skilled technician in handling various conventional and Non conventional Machines by Adopting new technologies.

ISHRAE :

ISHRAE stands for the “Indian Society of Heating, Refrigerating and Air Conditioning Engineers” program conduct on 17.10.2025

By being an ISHRAE student member you become part of a large community of HVAC&R professionals and other students — enabling you to meet people from industry, learn from experienced engineers, and build contacts that could help with internships, projects, or jobs.



INDUSTRIAL VISIT:

METTUR THERMAL POWER PLANT:

The main objectives of the visit were:

1. To gain practical knowledge about the generation of electrical power using thermal energy.
2. To understand the working principle of major systems such as the **Boiler, Turbine, Generator, Cooling Tower, and Coal Handling Plant.**
3. To learn about the safety practices followed in large-scale industries.
4. To observe real-time operation and maintenance practices related to thermal power generation.

After the visit, students were able to:

1. Explain power generation using Rankine cycle.
2. Identify major components of a thermal power plant.
3. Understand the function of CHP, boiler, turbine, generator, ESP, and cooling towers.
4. Gain exposure to industrial safety protocols.
5. Connect theoretical classroom knowledge with practical operation.



CARRIER GUIDANCE PROGRAM :

Date : 14.10.2025

The Career Guidance Program was organized to create awareness among school students about different career opportunities after 10th and 12th standards. The session aimed to help students identify their interests, understand available courses, and choose a suitable career path based on their skills and abilities.

Objectives of the Program

1. To provide information on various career options available after 10th & 12th.
2. To guide students in selecting the right course based on interest and aptitude.
3. To create awareness about diploma, engineering, polytechnic, ITI, arts & science, paramedical, and vocational courses.
4. To motivate students to set short-term and long-term career goals.
5. To develop confidence among students to make informed career decisions



ENTREPRENEURSHIP PROGRAM ON 25.09.2025

Entrepreneurship Development Program was conducted to motivate students to become innovative and self-reliant entrepreneurs. The objective of the program was to create awareness on start-ups, business models, funding opportunities, and essential entrepreneurial skills required to start and manage small-scale and medium-scale enterprises.



NCC :

The NCC Training Program was organized to enhance discipline, leadership, physical fitness, and national responsibility among students. The program focused on basic military training, drill practice, physical endurance, personality development, and creating awareness about careers in the Indian Armed Forces



TECH EXPO : Date :20.09.2025

Objectives of the Tech Expo

1. To showcase emerging technologies and innovations in various fields.
2. To create awareness among students and industry professionals about the latest technological trends.
3. To encourage students to develop innovative projects and prototypes.
4. To provide a platform for interaction between students, industries, and entrepreneurs.
5. To inspire students to take up research, innovation, and entrepreneurship

Outcomes of the Expo

1. Students understood practical applications of engineering and technology.
2. Gained exposure to emerging fields like AI, Robotics, EVs, and IoT.
3. Encouraged innovation, project development, and research thinking.
4. Provided networking opportunities with industries and entrepreneurs.



FACULTY DEVELOPMENT PROGRAM :

DATE : 18.09.2025

TOPIC : TEACHING METHODOLOGY

Resource Person : Mr P.S. Sathish

The Faculty Development Program (FDP) was conducted to enhance teaching, research, and professional skills of faculty members. The program focused on latest teaching methodologies, curriculum design, industry collaboration, and emerging trends in technical education.



ENVIRONMENTAL SUSTAINABILITY PROGRAM :

Date : 12.09.2025

The Environmental Sustainability Program was conducted to:

1. Raise awareness about environmental issues such as pollution, climate change, and waste management.
2. Encourage sustainable practices among students and faculty.
3. Promote tree plantation, waste segregation, and water conservation.
4. Inspire students to actively contribute to a cleaner and greener environment.
5. Develop a sense of responsibility towards natural resources and ecological balance

Outcomes of the Program

1. Enhanced awareness about environmental sustainability among students.
2. Active participation in tree plantation and campus cleanliness activities.
3. Students developed eco-friendly habits such as waste segregation and water conservation.



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