



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 NEWS LETTER

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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.

NAAN MUTHALVAN AWARD:

Students of our institution successfully completed the **CNC Turning Program On 30.01.2026** under the **Naan Mudhalvan Scheme**, an initiative of the **Government of Tamil Nadu** aimed at enhancing students' technical and employability skills.

As part of this training program, students learned the **fundamentals of CNC turning operations, programming techniques, tool selection, machine setup, and precision machining**. The training helped students gain **hands-on experience with modern CNC machines**, which are widely used in the manufacturing and tool & die industries.

After successfully completing the program and evaluation process, the students were honored with the **Naan Mudhalvan Award and Certificates** in recognition of their **technical skills, dedication, and successful completion of the CNC Turning training**.

This achievement reflects the institution's commitment to **skill-based education, industry-oriented training, and preparing students for advanced manufacturing careers**.

The management, Principal, Head of the Department, and faculty members congratulated the students and encouraged them to continue developing their **technical expertise and professional skills** for future opportunities in the manufacturing sector.



NATIONAL LEVEL TECHNICAL SYMPOSIUM:

A **National Level Technical Symposium** was successfully conducted on **11 February 2026** at **Er. Perumal Manimekalai Polytechnic College**. The symposium was organized to provide a platform for students to showcase their **technical knowledge, innovative ideas, and practical skills** in various engineering fields.

Students from different institutions participated enthusiastically in several technical events such as **paper presentation, technical quiz, project exhibition, CAD modeling, and technical workshops**. The symposium encouraged participants to share their ideas, discuss new technologies, and develop problem-solving skills.

The program was inaugurated by distinguished guests from academia and industry who emphasized the importance of **innovation, research, and technical excellence** in engineering education. They motivated students to improve their **technical competencies and industry readiness**.

Faculty members and students worked together to organize the event successfully. Winners of various competitions were honored with **certificates and prizes** for their outstanding performances.

The **National Level Technical Symposium** provided an excellent opportunity for students to **learn, interact, and collaborate with peers from different institutions**, thereby enhancing their overall academic and professional development.



TECH EXPO 2026

Tech Expo 2026 was successfully organized at **Er. Perumal Manimekalai Polytechnic College** from **10.02.2026 to 13.02.2026**. The event was conducted with the aim of creating **technical awareness and interest in engineering and technology among school students**.

More than **10,000 school students** from various schools participated in this grand technical exhibition. The expo showcased a wide range of **engineering models, innovative projects, advanced machinery demonstrations, and modern manufacturing technologies** prepared by students and faculty members.

Different departments of the college presented **live demonstrations, working models, and technical displays** related to their fields. The **Mechanical Engineering (Tool & Die) Department** displayed models related to **press tools, moulds, jigs, fixtures, and CNC machining**, which attracted great interest from visiting students.

The expo provided school students with an opportunity to **learn about engineering concepts, modern technologies, and career opportunities in technical education**. Faculty members and student volunteers explained the working principles of the models and guided visitors throughout the exhibition.

The event was a grand success and helped in **promoting technical education, innovation, and creativity among young students**. The management, Principal, Heads of Departments, faculty members, and student volunteers played a vital role in making **Tech Expo 2026** a memorable and impactful event.



VALUE ADDED COURSE:

Value Added Course – CAM for Plastic Mould Design

23.02.2026 to 27.02.2026

A Value Added Course on CAM for Plastic Mould Design was conducted from 23 February 2026 to 27 February 2026 at Er. Perumal Manimekalai Polytechnic College for the students of the Mechanical Engineering (Tool & Die) department.

The objective of the course was to enhance students' **practical knowledge in Computer Aided Manufacturing (CAM)** and its applications in **plastic mould design and manufacturing**. During the training program, students were introduced to modern **CAM software tools used for generating machining tool paths, CNC programming, and mould component manufacturing**.

The course covered important topics such as:

- Fundamentals of **CAM technology**
- **Plastic mould design concepts**
- **Tool path generation for CNC machining**
- **Mould cavity and core machining operations**
- Post processing and **CNC program generation**

Through hands-on sessions and demonstrations, students gained valuable knowledge about **modern mould manufacturing processes used in the tool and die industry**. The training helped them understand the integration of **CAD design with CAM machining operations**.

The program was highly beneficial for students as it improved their **technical skills, software knowledge, and industry readiness** in the field of **plastic mould design and manufacturing**.



ENTREPRENEURSHIP DEVELOPMENT PROGRAM:

A programme was organized by the **Entrepreneurship Development Cell (EDC)** on **25 February 2026** at **Er. Perumal Manimekalai Polytechnic College** to encourage students to develop an **entrepreneurial mindset and leadership qualities**.

The objective of the programme was to create awareness among students about **entrepreneurship opportunities, start-up development, and self-employment possibilities**. The session was handled by industry experts and entrepreneurship trainers who shared valuable insights on **starting a business, identifying market opportunities, and managing resources effectively**.

During the programme, students learned about:

- **Basics of entrepreneurship and start-up culture**
- **Business planning and idea development**
- **Financial support and government schemes for entrepreneurs**
- **Challenges and opportunities in starting new ventures**

The speakers motivated students to think creatively and develop **innovative business ideas based on their technical knowledge and skills**. The programme helped students understand the importance of **self-employment and entrepreneurship in today's competitive world**.

Faculty members and students actively participated in the session and interacted with the resource persons. The programme was highly informative and inspired students to explore **future entrepreneurial opportunities**.



NAAN MUTHALVAN :

Under the **Naan Mudhalvan Scheme**, a **CNC Milling Training Program** was conducted for **Second Year students** at **Mechanical Engineering (Tool&Die)**.

The objective of the program was to provide students with **practical knowledge and industry-oriented skills in CNC milling operations**. During the training, students learned the **fundamentals of CNC milling machines, programming methods, tool selection, machine setup, and machining operations**.

The program covered several important topics, including:

- **Introduction to CNC Milling Machines**
- **Basic CNC Programming (G-codes and M-codes)**
- **Tool selection and workpiece setup**
- **Milling operations such as face milling, slot milling, and profile milling**
- **Safety procedures in CNC machining**

Through this program, students gained **hands-on experience and technical knowledge** that will help them understand modern **manufacturing and precision machining processes** used in industries.

The training helped improve students' **technical competency, practical skills, and employability**, preparing them for future opportunities in the **manufacturing and tool & die industries**.



SPORTS 2026

A **Sports Meet** on 11.03.2026 & 12.03.2026 is an event organized by a college, where students or participants compete in different sports and athletic activities. It promotes **physical fitness, teamwork, discipline, and sportsmanship**.

A **Sports Meet** is a gathering where various sports competitions such as running, jumping, throwing events, and team games are conducted. Participants compete to win medals, trophies, and certificates.



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