



**Er.PERUMAL MANIMEKALAI
POLYTECHNIC COLLEGE**
AN ISO 9001:2015 CERTIFIED INSTITUTION
HOSUR



Website: www.pmctechpoly.org

DEPARTMENT NEWS LETTER JUNE 2023-OCT 2023-(2023-24)

VOLUME- 9

ISSUE-9

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.
- Fulfill the demands of industries with good communication, positive attitude and team spirit.

Guest Lecturer Program :

Topic : Additive Manufacturing

Year / Sem : III / V

Date : 07.06.2023

Resource Person : Mr K. Udayakumr

Assistant Professor

Er Perumal Manimekalai Polytechnic College, Hosur

Additive manufacturing (AM) is defined by the a process of joining materials to make objects from 3D model data, usually layer upon layer, as opposed to subtractive manufacturing methodologies



Guest Lecturer Program :

Topic : Metal Injection Moulding

Year / Sem : III / V

Date : 11.08.2023

Resource Person : Mr Joel Fernades

**Group Leader (Marketing)
INDO – MIM Pvt Ltd, Hoskote
Bangalore**

The Metal Injection Molding (MIM) process combines the design flexibility of Plastic Injection Molding with the strength and integrity of wrought metals to offer cost-effective solutions for highly complex part geometries. The MIM process is typically explained as four unique processing steps (Compounding, Molding, De-binding, and Sintering) to produce a final part



Guest Lecturer Program :

Topic : Additive Manufacturing

Year / Sem : III / V

Date : 17.08.2023

Resource Person : Dr Viswas Puttige

**Business Head
M/s AMACE Solutions
Bangalore**

Additive manufacturing (AM) is defined by a process of joining materials to make objects from 3D model data, usually layer upon layer, as opposed to subtractive manufacturing methodologies”



Value Added Course :

Topic : Lean Manufacturing

Year / Sem : II / III

Date : 01.09.2023 to 02.09.2023

Resource Person : SVAIC Team

PMC TECH – Hosur

Lean manufacturing is a methodology that focuses on minimizing waste within manufacturing systems while simultaneously maximizing productivity



Value Added Course :

Topic : CAM for Plastic Mould Design

Year / Sem : III / V

Date : 23.08.2023 to 29.08.2023

Resource Person : SVAIC Team

PMC TECH – Hosur

Computer-aided manufacturing (CAM) plays a critical role in the field of plastic mold design, enabling efficient and precise manufacturing processes. This training program, "CAM for Plastic Mold Design," is designed to equip participants with the knowledge and skills necessary to use CAM software effectively in designing molds for plastic components



Value Added Course Certificate Distribution :

III Year :



II Year :



Industrial Visit :

Year / Sem : III / V

Industry Name : ALF Engineering Pvt Ltd, Shoologiri, Hosur

Visiting Date : 19.08.2023

Company Profile :

Alf Engineering Pvt Ltd is a leading OE manufacturer of automotive Chassis, and currently manufactures over 1400 frames/day from its plants across India.

Alf Engineering Pvt Ltd is also the largest manufacturer engaged in the indigenous design and development of hydroformed components for the automotive industry, A Hydroforming facility is operational at Nasik, with a design centre to support customers in design & development.

ALF also manufactures and supplies assemblies and parts for suspensions - both front and Rear. They include cradles, control arms & links.

Growing recognition...In the recent years more companies have come to accept the competence and commitment of ALF to develop critical Hydroformed components /assemblies for chassis & suspension.



Industrial Visit :

Year / Sem : II / III

Industry Name : Steel Engineering Pvt Ltd, Hosur

Visiting Date : 24.08.2023

Company Profile :

"Steel Engineering Enterprises" was established In 1999 with 12 Employee & we are the manufacture of Gray Cast Iron, Industrial Castings, Metal Castings, SG Iron Casting. They also provide various facilities like sand plant, sand reclamation machine, stress relieving furnace and testing laboratories. We have established our clientele worldwide. We have four manufacturing units equipped with cutting edge technology tools for manufacturing superior range of equipments.

We have all the resources to provide the quantity of castings as per the customer requirements & specifications. Due the good quality of castings and prompt delivery, we have gained a huge client network all over India.



In Plant Training :

To enhance the employability skills in the students and make them job-ready with real corporate exposure.

Company : Ashok Leyland

Company Profile:

Ashok Leyland is an Indian multinational automotive manufacturer. It is owned by the Hinduja Group. It was founded in 1948 as Ashok Motors which became Ashok Leyland in the year 1955 after collaboration with British Leyland. Ashok Leyland is the second largest manufacturer of commercial vehicles in India, the third largest manufacturer of buses in the world, and the tenth largest manufacturer of trucks.

III Year

S.No	Register.No	Name of the Student	Name of the Company
1	22219403	DHESIAN D	Ashok Leyland Pvt Ltd, Hosur
2	22219404	DINESHKUMAR V	
3	22219410	LIKETH M	
4	22219412	NANDISH S	
5	22219417	PUNITH KUMAR N	
6	22219422	SATHYANARAYANAN S	
7	22219423	SATHYAPRAKASH M	
8	22219428	YUGESH S A	
9	22219429	YUVARAJ M	
10	22297853	PRABHUDASS A	



Naan Muthalvan :

Topic : Basic English for Employability

Date : 11.09.2023 to 20.09.2023

Year / Sem : I / I

Objective :

In today's globalized economy, English has become a lingua franca, allowing people to communicate and work together across borders. This means that learning English for employability is a highly desired skill. English is the global language of communication and a key factor in helping businesses succeed.



Naan Muthalvan :

Topic : Employability Skills

Date : 11.09.2023 to 19.09.2023 & 09.10.2023 to 20.10.2023

Year / Sem : II / III

Objective :

- ✓ To help students explore their values and career choices through individual skill assessments.
- ✓ To make realistic employment choices and to identify the steps necessary to achieve a goal.
- ✓ To develop and practice self management skills for the work site.
- ✓ To explore and practice basic communication skills.



Naan Muthalvan :

Topic : Industry 4.0

Date : 08.08.2023 to 03.09.2023

Year / Sem : III / V

Objective :

Industry 4.0 refers to a trend or concept in the current manufacturing industry that focuses on automation of processes and data exchange.

- ✓ Modeling and simulation.
- ✓ IoT and sensor data integration.
- ✓ Data analysis and visualization.
- ✓ Cybersecurity.
- ✓ Artificial Intelligence and Machine Learning.



Campus to Industrial Careers Program (TNS Foundation)

Date : 12.09.2023 to 15.09.2023

Year / Sem : III / V

Objective:

It has developed a Campus to Corporate Careers Program which aims to usher under-resourced college-going youth into the formal workforce by upskilling them in 21-century , advanced technical, digital and industrial skills and thereby unlocking their economic potential.



Auditing Course:

Integrated Learning experience training program for First Year students addressed by Nammadhu Nambikai Trainer on 29.09.2023



Entrepreneurship – Institute Innovation Council :

Date : 20.09.2023

Year / Sem : III / V

Resource Person : Mr Mohanraj

Head of the Department / Master of Business Administration

Er Perumal Manimekalai Polytechnic College, Hosur

Our Third year students participate Entrepreneurship innovation council training program able to learn With that in mind, another goal of entrepreneurship education is to equip aspiring entrepreneurs with the knowledge and sense to navigate the business world. Relevant business acumen factors include: Leadership skills, like commitment, time management, and organization.



Best Faculty Award :

They honoured Mr R. Ramachandran HOD (Admin) Department of Mechanical Engineering (Tool & Die)with the best faculty award at the Indian Medical Association , Hosur Teachers day function on 09.09.2023



Hosur Reading :

The students of our department also participated in the reading awareness program held in our college on the topic Hosur Reading and created an awareness about the importance of reading books on 12.07.2023



Engineers Day :

The Students of our department participated in the Engineers day program organized by the Institution of Engineers and introduced the new technologies in the field of engineering and gave a special speech about engineers on 15.09.2023



Yoga Program :

Year : I & II (Lateral Entry)

Date : 12.09.2023 to 16.09.2023

Yoga is a practice that connects the body, breath, and mind. It uses physical postures, breathing exercises, and meditation to improve overall health. Yoga was developed as a spiritual practice thousands of years ago

Our First Year and Second Year(Lateral Entry) students from our department participated in the yoga program and received yoga training



Blood Camp :

Students and Faculty of our department participated in the blood donation camp organized by our college Youth Red Cross and Government Medical College Hospital Krishnagiri and donated blood on 08.09.2023



Independence Day Celebration :

The Students of our department participated in the 77 th independence day function held in our college and conduct mime show on 15.08.2023



Motivational Program

Year : III

Date : 24.07.2023

Resource Person : Mr Raghunath

Relax Training, Chennai

The Third year students of our department participated in the training program and learned about the morals to follow in the life and the necessary ways to progress in life



Agapori :

The Second and Third year students from our department participated in the Agapori program on 21.07.2023



Drug Awareness Program :

Our Third Year and Second Year students participated in the anti drug awareness program and took the drug addiction pledge on 11.08.2023



NCC Activity :

Our Department NCC Students participated in the program Sasame Tamilnadu and provided necessary assistance to the differently able people there on 08.10.2023



Hosur Run :

Students from our department participated in the Marathon Run held in Hosur on 04.06.2023



Sports :

Our Students participated on a regional level inter polytechnic volley ball tournament at KAR Polytechnic College, Vellore on 15.09.2023



RESULT ACHIEVEMENTS -TOPPERS 2023-2024-ODD SEM**III Year**

S.No	Name of the Students	Year/ Sem	Mark
1	PUNITH KUMAR N	III/ V	682
2	SATHYAPRAKASH M	III/ V	660
3	LIKETH M	III/ V	650
4	YUVARAJ M	III/ V	646
5	DINESHKUMAR V	III/ V	645
6	BHARATHKUMAR S	III/ V	605
7	JAYANTHRAJ S	III/ V	594
8	KEERTHIVASAN M	III/ V	587
9	THARUN D	III/ V	583
10	PRAVEEN KUMAR V	III/ V	578

II Year

S.No	Name of the Students	Year/ Sem	Mark
1	LEELADHARAN S	II / III	640
2	HEMA KUMAR V	II / III	612
3	NIRANJAN M	II / III	602
4	SRIKANTH C	II / III	601
5	KISHORE K	II / III	595
6	NITHISHKUMAR N	II / III	573
7	SUWIN SALAMAN RAJU S	II / III	568
8	PRAKASH G	II / III	533
9	RAGAVENDHIRAN V	II / III	532
10	THILAK KUMAR B	II / III	522

Chief Editor:

Prof. N Sudhakaran, Director
Er. N. Balasubramaniam, Principal

Editors:

Mr. C.Prakash., HOD/Mech (TD),
Mr. R.Ramachandran., DEPUTY HOD/Mech (TD),
Mr., S.Tamilarasan/Lecturer/Mech (TD),
Mr., V.Govindaraj/ Lecturer/ Mech(TD),
Mr., S.Praveen../Lecturer/ Mech(TD),
Mr., P.Rajasekar/ Lecturer/ Mech(TD),
Mr., P.Rajasekar /Lecturer/ Mech(TD),
Mr., P.Vinoth kumar/ Lecturer/ Mech (TD)
Mr., N.Punith kumar/Mech(TD) III year Student,
Mr., S.Bharathkumar /Mech(TD) III year Student,
Mr., V.Hemakumar /Mech(TD) II year Student