

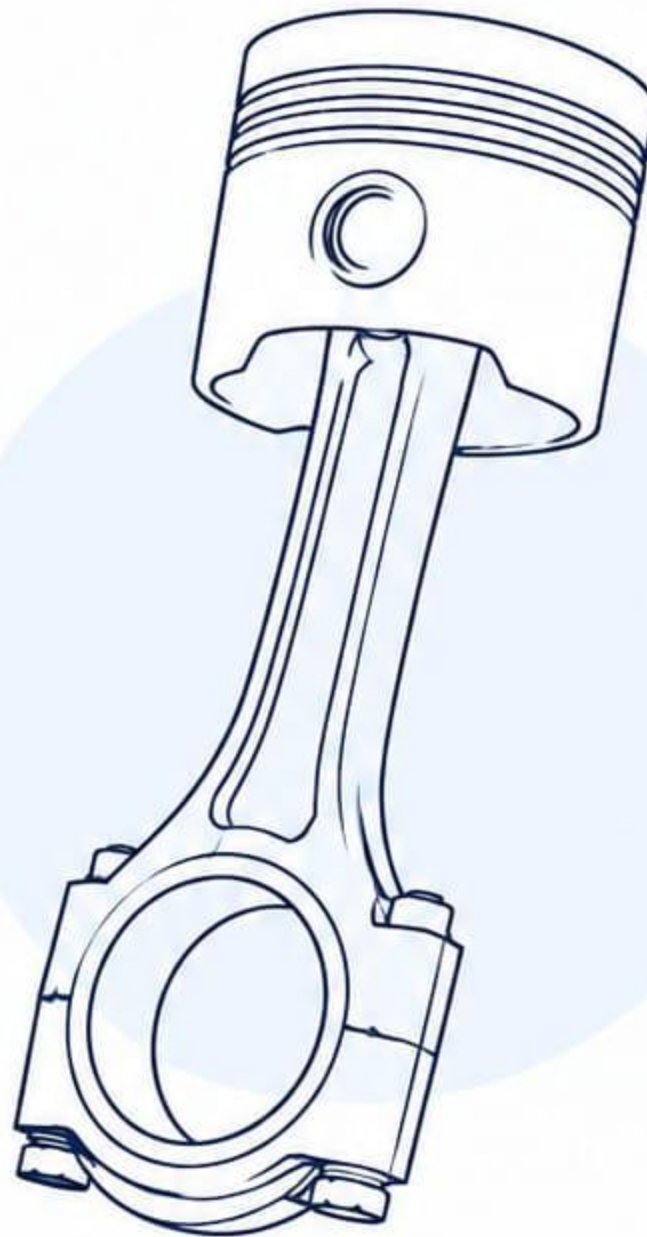


MECHVERSE

A E-NEWS LETTER

Academic Year
2023-24

**THE POWER
WITHIN. >>>**



**HEART
OF MOTION.**

DEPARTMENT OF
MECHANICAL ENGINEERING

PVC College of Engineering &
S S Damankar Institute of Management, Nashik



NEWS LETTER EDITORIAL TEAM

Sr. No.	Designation	Name of Member
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5	Member	Kathoke Rohan
6	Member	Aringale Preeti
7	Member	Jadhav Om
8	Member	Bhalerao Satyam
9	Member	Kulkarni Atharv

DEPARTMENT OF MECHANICAL ENGINEERING** VISION**

- The Mechanical Engineering Department endeavors for providing quality education leading to technically competent engineers to cater the changing industrial demands and societal needs.

** MISSION**

- To provide state-of- the-art resources to students for imparting quality technical education in Mechanical engineering.
- To develop skilled and employable human resources in Mechanical Engineering to accept the global and societal challenges.
- To prepare competent engineers with the spirit of entrepreneurship and innovation.

** PROGRAM EDUCATIONAL OBJECTIVES (PEOs)**

- PEO1: The graduate will have a successful career in mechanical engineering with strong technical, research & professional skills.
- PEO2: The graduate will possess an ability to work in diversified fields along with team work and leadership qualities.

- *PEO3*: The graduate will continue to learn and to adapt in a society of constantly evolving technological environment

PROGRAM OUTCOMES (POs)

- ***PO1***. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.
- ***PO2***. Problem analysis: Identify, formulate, research literature and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.
- ***PO3***. Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety and the cultural, societal, and environmental considerations.
- ***PO4***. Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- ***PO5***. Modern tool usage: Create, select and apply appropriate techniques, resources and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.
- ***PO6***. The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

- **PO7.** Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of and need for sustainable development.
- **PO8.** Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- **PO9.** Individual and team work: Function effectively as an individual and as a member or leader in diverse teams, and in multidisciplinary settings.
- **PO10.** Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large such as, being able to comprehend and write effective reports and design documentation, make effective presentations and give and receive clear instructions.
- **PO11.** Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- **PO12.** Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PROGRAM SPECIFIC OUTCOMES (PSOs)

- **PSO1.** To develop an ability to identify, formulate and solve engineering problems in three core streams of Mechanical Engineering, i.e. design engineering, thermal and fluids engineering and manufacturing engineering.
- **PSO2.** To develop an ability to design, manufacture and test an energy efficient system for required engineering applications.

- **PSO3.** To develop an ability to represent and read an engineering idea physically by means of a 2D / 3D drawing and use CAD/CAM/CAE/Computational tools to solve engineering problems

HOD MESSAGE

Mechanical Engineering is a well-established Core Branch (PVGCOE & SSDIOM, Nashik Sanctioned Intake: 60 Branch code: 533061210). Basic domains like Design Engineering, Thermal Engineering, Production and Industrial Engineering, CAD/CAM/CAE, Mechatronics etc., fall under it. Mechanical Engineers could work in Private or Public sector industries of various types. Mechanical Engineers can seek employment in Government Departments like Posts and Telegraphs, Defense, PWD, and CPWD. Engineering department's viz. Aeronautical, Agricultural, Automobile, Chemical Factories, Power Plants and the Railways need Mechanical Engineers for the design, manufacturing and maintenance of their products, Plants and Machinery. Mechanical Engineers are highly sought after in automobile, chemical, electronics, steel plants, oil exploration and refining, technical wings of armed forces, space research organization, etc. Mechanical Engineering Graduates with Post Graduate Degree or an additional Management Degree could cut a niche in administrative and managerial positions in Public/Government departments and private sector industries. Mechanical Engineering Graduates with interest in research activities can work with many Public/Private sector Research and Development Organizations. Mechanical Engineers also can choose Teaching/Training as their profession.

Prof. Dr. A. R. Rasane
(Head of Department)

EVENTS & CELEBRATIONS ORGANIZED BY MESA

❖ Drone Awareness Session



❖ IPR Day





❖ International Literacy Day



❖ Teachers Day



❖ Extension Activity: Diwali's Sweet Distribution



PLACEMENT DETAILS

Sr. No.	Name of Student	Employer Name	CTC(In lac per annum)
1	Deshpande Shripad Nandkumar	Expert Global Solutions (An Alten company)	3

RESULT ANALYSIS**❖ Pride Toppers for the Academic Year 2022-23**

Class	Rank	Name of Student	SGPA
SE	1	Patil Aparna Sandip	7.7
	2	Kathoke Rohan Ninu	6.9
TE	1	Deshpande Shripad N	8
BE	1	Salunke Radhey Mukund	7.78
	2	Patil Sagar Vijay	7.65
	3	Falane Yogesh Kacharu	7.47

STUDENTS ACHIEVEMENT

Sr. No.	Name of student	Name of course	Duration
1	Jay Arun Kuwar	NPTEL: Human Behaviour	8 Week
2	Pawar Apurva Sanjay	NPTEL: Human Behaviour	8 Week
3	Viraj Jawant Jadhav	NPTEL: Human Behaviour	8 Week
4	Rohan Ninu Kathoke	NPTEL: International Bussiness	12 week
5	Shripad Deshoande	NPTEL: Operation Managemnt	12 week
6	SE Class	Destructive testing - Rockwell Hardness testing	2hrs
7	SE Class	Velocity analysis of Single Slider Mechanism	2hrs

Sr. No.	Name of the Student	Details of the Event
1	Vishal Jore	RunnerUp-Maharashtra State Skills Competition - India Skills 2023-24 (MSSDS)-State Level

INDUSTRIAL VISITS

Sr. No.	Date of Visit	Organization Visited	Subject	class	Domain
1	30/11/2023	Metaforge Engineering Pvt.ltd	Geometric Dimensioning and Tolerancing Lab	SE	Manufacturing
2	24/04/2024	Ambar Auto Private Ltd	Machine Shop	SE	Manufacturing
3	24/04/2024	Form Dynamics Engineering LLP	Kinematics of Machinery	SE	Dynamics
4	24/04/2024	Prakash Technoplast Pvt.ltd	Machine Shop	SE	Manufacturing
5	18/10/2023	Autonetix Automation Pvt.ltd	Mechatronics	TE	Automation
6	24/04/2024	Shrihari Engineering Pvt.ltd	Measurement Laboratory	TE	Manufacturing
7	24/04/2024	Prakash Technoplast Pvt.ltd	Fluid Power and control Lab	TE	Manufacturing
8	18/10/2023	Autonetix Automation Pvt.ltd	Skill Development	TE	Automation
9	7/11/2023	Narang cold storage Pvt. Ltd	Heating, Ventilation, Air-Conditioning and Refrigeration	BE	Thermal
10	17/10/2023	Karanjwan Dam	Turbomachinery	BE	Thermal
11	5/10/2023	BABA Tyres	Dynamics of Machinery	BE	Dynamics
12	6/11/2023	Nilgiri Bag water treatment plant	Turbomachinery	BE	Thermal





STAFF ACHIEVEMENTS

Sr. No	Name of Staff	Title of the Event	Category
1	Prof.Amol R. Rasane	Recent Developments in Advanced Material	STTP
2		Innovation and Start Up Policy	FDP
3		Career in Intellectual Property Rights	Workshop
4		AICTE Evaluated 2- Week Patent Course	Training
5		AICTE Evaluated 10 Day Patent Analytics Course	Training
6		AICTE Evaluated 7 Day Design Thinking Course	Training
7		10 Day Idea to Patent Course	Training
8	Dr.Shivaji V. Gawali	Recent Advances in Mechanical Engineering (RAME-23)	FDP
9		Recent Advances and Challenges in Electric Vehicles	FDP
10		AICTE Evaluated 2 Week Patent Course	Training
11		Career in Intellectual Property Rights	Workshop
12		Advanced Vibration & It's Practical Application	FDP
13	Prof.Vaibhav C. Chopade	Recent Advances in Mechanical Engineering (RAME-23)	FDP
14	Prof.Yogita U. Medhane	Recent Advances in Mechanical Engineering (RAME-23)	FDP
15	Prof.Paresh D. Badgujar	AICTE Evaluated 2- Week Patent Course	Training
16		Recent Trends in Heating, Ventilation, Air Conditionioing and Refrigeration	FDP
17	Prof. Anil D. Mandlik	AICTE Evaluated 2- Week Patent Course	Training
18	Prof. Sudhir S. Shardul	AICTE Evaluated 2- Week Patent Course	Training
19	Prof. Santosh K. Chandole	Recent Trends in Heating, Ventilation, Air Conditionioing and Refrigeration	FDP
20	Prof. Santosh K. Chandole	Fabrication & Characterization of Novel Fiber Reinforced Polymer Composite For Structural Application	FDP

STUDENTS INTERNSHIP

Sr. No.	Industry Name	No. of Students	Duration	
			To	From
1	Suyash Enterprises	1	1/1/2024	31/01/2024
2	Future fold Soft. Testing Pvt Ltd	6	Dec-23	Jan-24
3	MS Industries	1	15/01/2024	15/02/2024

UTILIZATION OF VIRTUAL LAB

Class	Topic Covered
SE	Destructive testing - Rockwell Hardness testing
SE	Velocity analysis of Single Slider Mechanism
SE	Electron Microscopy for beginners

RESEARCH PAPERS PUBLISHED IN JOURNALS

Title of paper	Name of the author/s	Name of journal	Year of publication
Computer aided process planning for sheet metal cutting operations in the manufacturing industry	Nandkishor Sawai, Avinash Mankar, Amol Rasane, Chandramani Yadav, Ravi Shankar Rai	Journal of Electrical Systems	2024

WORKSHOPS/TRAINING CONDUCTED BY INDUSTRY EXPERTS IN ACADEMIC YEAR 2023-24

Sr. No.	Date	Organization	Expert	Topic
1	09 th Sept 2023	Deputy Collector, Vikramghad, Plaghar	Mr. Rohan R. Kunwar	Guest lecture: International Literacy Day
2	16 th April 2024	Drone Research Pvt Ltd Nashik	Mr. Nikhil D. Baravkar	Drone Awareness
3	26 th April 2024	Consultant IPR	Mr. Parag Khedekar	World IPR Day

About PVG...



Pune Vidyarthi Griha's College of Engineering & Shrikrushna S. Dhamankar Institute of Management (PVGCOE & SSDIOM), Nashik, established in **2010**, is committed to providing quality professional education to deserving students. Affiliated with **Savitribai Phule Pune University**, approved by **AICTE** and **DTE Maharashtra**, and accredited by **NAAC**, the institute offers undergraduate engineering programs in Mechanical, Computer, IT, E&TC, and AI & Data Science, along with a two-year full-time MBA program offering specializations in Finance, Marketing, Human Resource, Operations & Supply Chain Management, and Business Analytics.

Spread across a **20-acre campus** in Mhasrul, Nashik, the institute provides modern infrastructure, ICT-enabled classrooms, well-equipped laboratories, a central library, sports, and cultural facilities. Backed by the **100+ year legacy** of Pune Vidyarthi Griha, the institute emphasizes academic excellence, industry interaction, research, internships, mentoring, and holistic student development, producing successful professionals, entrepreneurs, and higher education aspirants.



**Pune Vidyarthi Griha's
College of Engineering & Shrikrushna S.
Dhamankar Institute of Management, Nashik**

Approved by AICTE & DTE, Affiliated to Savitribai Phule Pune University, Pune



Contact Us

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