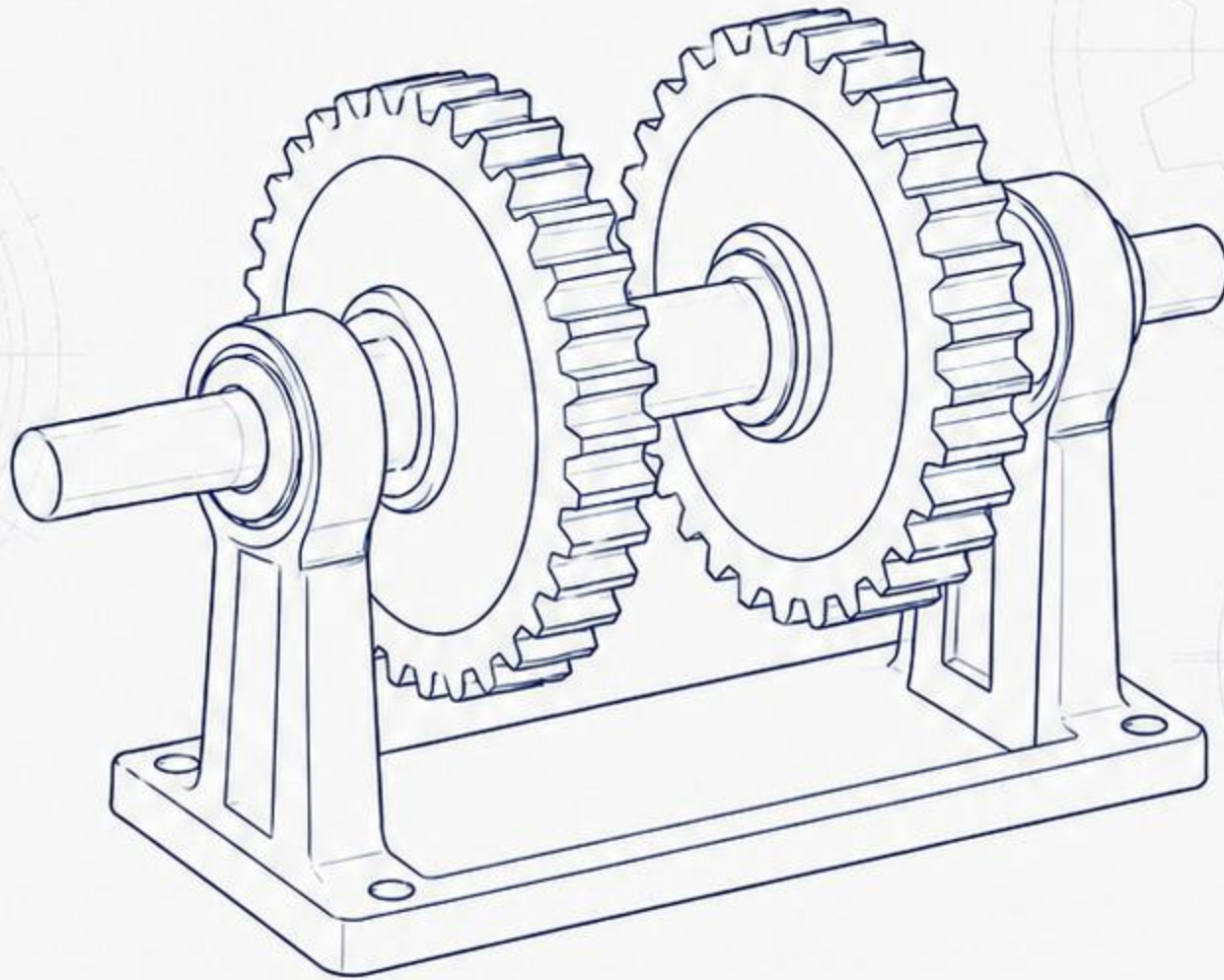


MECHVERSE

— A E-NEWS LETTER —

Academic Year 2022-23



DEPARTMENT OF
MECHANICAL ENGINEERING

PVG College of Engineering &
S S Dhamankar Institute of Management, Nashik

NEWS LETTER EDITORIAL TEAM

Sr. No.	Designation	Name of Member
1	HOD	Dr. A R Rasane
2	Chief Editor	Prof. S S Sarode
3	Co-Editor: Student Representative	Bagal Sumit
4	Member	Deshpande Shripad
5	Member	Patil Aparna
6	Member	Bhalerao Satyam

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.
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- **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. Amol R. Rasane
(Head of Department)

EVENTS & CELEBRATIONS ORGANIZED BY MESA

Sr. No.	Name of the event	Date
1	Engineers Day	15/09/2022
2	Parents Meet	04/02/2023
3	Awareness on Session on Autonomous Vehicles	18/02/2023



PUNE VIDYARTHI GRIHA'S
COLLEGE OF ENGINEERING AND S. S. DHAMANKAR
INSTITUTE OF MANAGEMENT, NASHIK

Department of Mechanical Engineering

Industry Connect
Awareness Session
on
"Autonomous Vehicles"

Date: 18th Feb. 2023,
Time: 10:30 AM
Mode: Online (Google Meet)

Speaker:
Mr. Deepak Rao,
ADAS Validation Engineer,
Visteon Electronics Germany GmbH

Google Meet Joining Link: <https://meet.google.com/xuv-quna-jhx>

Prof. S. S. Sarode
MESA Coordinator

Dr. A. R. Rasane
HoD

Dr. C. M. Sedani
Principal

PLACEMENT DETAILS

Sr. No.	Name of student	Name of Company	Package Offered (Lacs/Annum)
1	Sumit Gorakshnath Bagal	MASO Group	1.68 LPA
2	Chetan Sadashiv Bendkoli	MASO Group	1.68 LPA
3	Yogesh Kacharu Falane	MASO Group	1.68 LPA
4	Bilwesh Jayant Jalihalkar	MASO Group	1.68 LPA
5	Askaran Viswas Patil	MASO Group	1.68 LPA
6	Shreyas Dattatray Pawar	MASO Group	1.68 LPA
7	Radhey Mukund Salunke	Ring Plus Aqua	2.04 LPA
8	Dattatray Narayanwarade	MASO Group	1.68 LPA

RESULT ANALYSIS

❖ PRIDE TOPPERS FOR THE ACADEMIC YEAR 2021-22

Class	Rank	Name of student	CGPA
SE	1	Deshpande Shripad N.	7.45
TE	1	Salunke Radhey Mukund	8.86
	2	Falane Yogesh Kacharu	8.1
	3	Gaikwad Harshada N.	7.64
BE	1	Pathak Makarand Vijay	9.14
	2	Patil Paresh Prakash	9.11
	3	Vishnu Rama Bhore	9.09

WORKSHOP/SEMINAR/VALUE ADDED COURSE:

Sr. No.	Name of Topic	Category	Date
1	One day technical workshop in software in Mechanical Engineering	Workshop	15/09/2022
2	An Expert Session on “Autonomous Vehicle” under Industry Connect Initiative	Webinar	18/02/2023
3	An Expert Session on “Project Report Writing” for BE students	Seminar	03/03/2023
4	Guest lecture: Importance of Mechanical software's in Mechanical Industries.	Seminar	10/03/2023
5	Guest lecture: Guidance on GATE Exam preparation.	Seminar	16/03/2023
6	Guest lecture: Opportunities for Mechanical Engineers and future challenges	Seminar	06/05/2023
7	Workshop on Advance VMC operating and Programming	Workshop	01/06/2023
8	Workshop on Advance VMC operating and Programming	Workshop	06/06/2023
9	FDP on ANSYS/Hyper work/CREO by ELEATION	FDP	2022-23

INDUSTRIAL VISITS

Sr. No.	Date Of Visit	Organization Visited	Subject	Class	Domain
1	28-12-2022	Metaforge Engineering Pvt.Ltd	Engineering Material and Metallurgy	SE	Manufacturing
2	25-05-2023	Shri Engineering, NABL Accredited calibration Laboratory	Measurement Lab	TE	Manufacturing
3	25-05-2023	Shri Engineering, NABL Accredited calibration Laboratory	Fluid Power & Control Lab	TE	Manufacturing
4	12-11-2022	Akash Udyog	Skill Development	TE	Manufacturing
5	01-11-2022	A. J. Tyres	Dynamics of Machinery	BE	Dynamics
6	09-11-2022	Narang Cold Storage Pvt ltd	Heating, Ventilation, Air-Conditioning and Refrigeration	BE	Thermal
7	17-11-2022	Karanjwan Dam	Turbomachinery	BE	Thermal
8	03-11-2022	Nilgiri Water Treatment Plant	Turbomachinery	BE	Thermal
9	02-05-2023	Nashik Thermal Power Station	Energy Engineering	BE	Thermal

UTILIZATION OF VIRTUAL LAB

Class	Topic Covered
SE	Destructive testing - Rockwell Hardness testing
SE	Sheet Metal Working
SE/TE	Crank and slotted lever Mechanism



Photos: Industrial Visits

STAFF ACHIEVEMENTS

Sr. No.	Name of Faculty	Title of Event	Category
1	Dr. A. R. Rasane	Two-Week Entrepreneurship Course	Training
2		ERP, LMS Training Phase I	Training
3		Syllabus Implementation workshop for the subject of Computer Integrated Manufacturing	FDP
4		Syllabus Implementation workshop for the subject of Data Analytics Laboratory	Workshop
5		Application of Artificial Intelligence (AI) & Machine learning (ML) in Mechanical Engineering	STTP
6		Materials & Advanced Manufacturing	FDP
7		Research Paper on “Taguchi Optimization of Geometrical Factors of a Polymer Composite Patch in Crack Repair”	International Journal of Automotive and Mechanical Engineering
8		Computer Integrated Manufacturing	FDP
9	Dr. S. V. Gawali	Application of Artificial Intelligence (AI) & Machine Learning (ML) in Mechanical Engineering	STTP
10		ERP, LMS Training Phase I	Training
11		Implementation of National Education Policy 2020: Industry & Institute Linkage	Workshop
12		Recent Advancement in Material, Micro Manufacturing and Characterization (RAMMC-23)	FDP
13	Prof. V. C. Chopade	Outcome Based Education	FDP
14		ERP, LMS Training Phase I	Training
15		Syllabus Implementation workshop for the subject of Energy Audit and Management	Workshop

16	Prof. P. D. Wadile	Outcome Based Education	FDP
17		CFD using ANSYS Fluent and Multi-Body Dynamics	FDP
18		ERP, LMS Training Phase I	Training
19	Prof. Y. U. Medhane	Implementation of Syllabus for the subject of Industrial Engineering	Workshop
20		Application of Artificial Intelligence (AI) & Machine learning (ML) in Mechanical Engineering	STTP
21		Materials and Advanced Manufacturing	FDP
22		Outcome Based Education	FDP
23		ERP, LMS Training Phase I	Training
24		Implementation of Syllabus for the subject of Renewable Energy Technologies	Workshop
25		Research Paper Writing and Publishing	FDP
26	Prof. P. D. Badgujar	Outcome Based Education	FDP
27		ERP, LMS Training Phase I	Training
28		Implementation of Syllabus for the subject of Energy Engineering	Workshop
29		Research Paper Writing and Publishing	FDP
30		Implementation of Syllabus for the subject of Heating Ventilation Air Conditioning and Refrigeration	Workshop
31	Prof. A. D. Mandlik	Research Paper Writing and Publishing	FDP
32		ERP, LMS Training Phase I	Training
33	Prof. S. S. Sarode	Outcome Based Education	FDP
34		ERP, LMS Training Phase I	Training
35	Prof. S. A. Shardul	Outcome Based Education	FDP
36		ERP, LMS Training Phase I	Training

STUDENTS ACHIEVEMENT

Sr. No.	Name of Student	Course	Duration	Platform
1	Ajinkya Jadhav	NX CAD	100hr	MOOC
2	Aniket Kathe	NX CAD	100hr	MOOC
3	SE	German Language Certification B1 Level		
4	SE	Destructive testing - Rockwell Hardness testing	2hrs	Virtual Lab
5	SE	Sheet Metal Working	2hrs	Virtual Lab
6	SE/TE	Crank and slotted lever Mechanism	2hrs	Virtual Lab

Sr. No.	Name of student	Participated in	Category	Remark
01	Mr. Om Jadhav	Participated in renowned "Shivputra Sambhaji Mahanatyia"	Cultural	Acted along with renowned actor Mr. Amol Kolhe
02	Mr. Ketan Somnath Pingale	Inter Zonal Handball Competition held at Annasaheb Waghire College, Otur Pune	Sports	SPPU Nashik District Zonal Sports Committee

STUDENTS INTERNSHIP

Sr. No.	Name of Student	Company Name	Specialization
1	Shirpad Deshpande	Rangoli Enterprises Ichalkaranji	Manufacturing
2	Nilesh Gaikwad	Rangoli Enterprises Ichalkaranji	
3	Mithilesh Kannav	Rangoli Enterprises Ichalkaranji	
4	Sidharth Lalge	Anjali Vibrotech	Design
5	Yogesh Wagh	Anjali Vibrotech	
6	Shubham Satpute	Anjali Vibrotech	
7	Kiran Phapale	Shri Engineering	Quality and Measurement

**WORKSHOPS/TRAINING CONDUCTED BY INDUSTRY EXPERTS IN
ACADEMIC YEAR 2022-23**

Sr. No.	Date	Organization	Expert	Topic
1	06 th May 2023	TATA motors	Mr. Nitin Bahulekar	Guest lecture: Opportunities for Mechanical Engineers and future challenges
2	16 th March 2023		Mr. Vishal Patil	Guest lecture: Guidance on GATE Exam preparation.
3	10 th March 2023	Access CAD Nashik	Mr. Sumant Borade	Guest lecture: Importance of Mechanical software's in Mechanical Industries.
4	18 th Feb 2023	Visteon Electronics, Germany GmbH	Mr. Deepak Rao	Guest lecture: Awareness session on Autonomous Vehicles.
5	15 th Sept 2022	TechnoCAD Nashik	Mr. Satish Maniyar	One day technical workshop in software in Mechanical Engineering

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

📍 206-Dindori road, Behind Reliance Petrol Pump, Near MERI, Mhasrul, Nashik - 422004

☎ 0253-6480036 ☎ 1800 266 5330

✉ pvgcoenashik@gmail.com