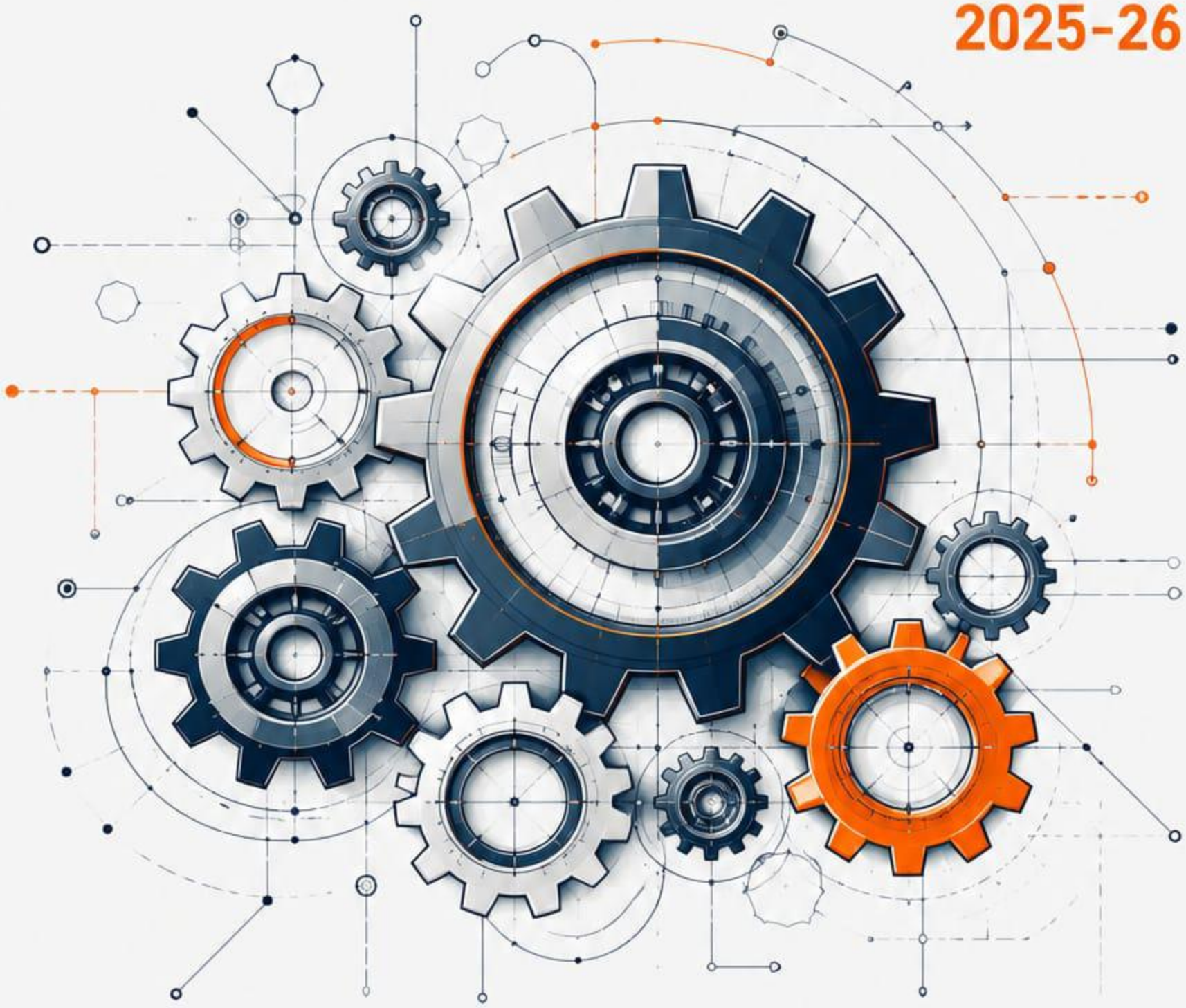
MECHVERSE

A E-NEWS LETTER

Academic Year
2025-26



INNOVATE

OPTIMIZE

TRANSFORM

DEPARTMENT OF
MECHANICAL ENGINEERING

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

News Letter Editorial Team

Sr. No.	Designation	Name of Member
1	HOD	Dr. A R Rasane
2	Chief Editor	Prof. V G Jape
3	Co Editor: Student Representative	Ms. Mali Anushka
4	Member	Ms. Joshi Chaitanya
5	Member	Mr. Sonawane Yash
6	Member	Mr. Thakare Chetan
7	Member	Mr. Kute Harshal
8	Member	Ms. Patil Manasi
9	Member	Mr. Patil Sai

Department of Mechanical Engineering

VISION

- The Mechanical Engineering Department endeavours 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 knowledge of mathematics, natural science, computing, engineering fundamentals and an engineering specialization as specified in WK1 to WK4 respectively to develop the solution of complex engineering problems.
- ***PO2: Problem Analysis:*** Identify, formulate, review research literature and analyze complex engineering problems reaching substantiated conclusions with consideration for sustainable development. (WK1 to WK4)
- ***PO3: Design/Development of Solutions:*** Design creative solutions for complex engineering problems and design/develop systems/components/processes to meet identified needs with consideration for the public health and safety, whole-life cost, net zero carbon, culture, society and environment as required. (WK5)
- ***PO4: Conduct Investigations of Complex Problems:*** Conduct investigations of complex engineering problems using research-based knowledge including design of experiments, modelling, analysis & interpretation of data to provide valid conclusions. (WK8).
- ***PO5: Engineering Tool Usage:*** Create, select and apply appropriate techniques, resources and modern engineering & IT tools, including prediction and modelling recognizing their limitations to solve complex engineering problems. (WK2 and WK6)
- ***PO6: The Engineer and The World***: Analyze and evaluate societal and environmental aspects while solving complex engineering problems for its impact on sustainability with reference to economy, health, safety, legal framework, culture and environment. (WK1, WK5, and WK7).
- ***PO7: Ethics:*** Apply ethical principles and commit to professional ethics, human values, diversity and inclusion; adhere to national & international laws. (WK9)
- ***PO8: Individual and Collaborative Team work:*** Function effectively as an individual, and as a member or leader in diverse/multi-disciplinary teams.
- ***PO9: Communication:*** Communicate effectively and inclusively within the engineering community and society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations considering cultural, language, and learning differences

- ***PO10:*** Project Management and Finance: Apply knowledge and understanding of engineering management principles and economic decision-making and apply these to one's own work, as a member and leader in a team, and to manage projects and in multidisciplinary environments.
- ***PO11:*** Life-Long Learning: Recognize the need for, and have the preparation and ability for i) independent and life-long learning ii) adaptability to new and emerging technologies and iii) critical thinking in the broadest context of technological change. (WK8)

PROGRAM SPECIFIC OUTCOMES (PSOs)

- ***PSO1***: SPECIFY, DESIGN and EVALUATE mechanical components and systems using modelling and analysis software.
- ***PSO2***: APPLY knowledge of machines, tools, automation, properties of advanced materials and modern management methods for manufacturing of mechanical components and systems.
- ***PSO3***: APPLY core aspects of thermal and fluid engineering to determine the performance of mechanical systems including power absorbing and power generating systems.

KNOWLEDGE & ATTITUDE PROFILE

- ***WK1: Natural Sciences and Social Science:*** A systematic, theory-based understanding of the natural sciences applicable to the discipline and awareness of relevant social sciences.
- ***WK2: Mathematics and Data Analysis:*** Conceptually-based mathematics, numerical analysis, data analysis, statistics and formal aspects of computer and information science to support detailed analysis and modelling applicable to the discipline.
- ***WK3: Engineering Fundamentals:*** A systematic, theory-based formulation of engineering fundamentals required in the engineering discipline.
- ***WK4: Engineering Specialist Knowledge:*** Engineering specialist knowledge that provides theoretical frameworks and bodies of knowledge for the accepted practice areas in the engineering discipline; much is at the forefront of the discipline
- ***WK5: Engineering Design and Environmental Considerations:*** Knowledge, including efficient resource use, environmental impacts, whole-life cost, re-use of resources, net zero carbon, and similar

concepts, that supports engineering design and operations in a practice area.

- ***WK6: Engineering Practice (Technology):*** Knowledge of engineering practice (technology) in the practice areas in the engineering discipline.
- ***WK7: Role of Engineering in Society:*** Knowledge of the role of engineering in society and identified issues in engineering practice in the discipline, such as the professional responsibility of an engineer to public safety and sustainable development.
- ***WK8: Research and Critical Thinking:*** Engagement with selected knowledge in the current research literature of the discipline, awareness of the power of critical thinking and creative approaches to evaluate emerging issues.
- ***WK9: Ethics and Inclusive Behavior:*** Ethics, inclusive behavior and conduct. Knowledge of professional ethics, responsibilities, and norms of engineering practice. Awareness of the need for diversity by reason of ethnicity, gender, age, physical ability, etc., with mutual respect.

HoD's 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)

Faculty & Staff of Mechanical Engineering

Mechanical Engineering Student Association (MESA)

❖ **STUDENT COMMITTEE(2025-26)**

Sr. No.	Designation	Name of Student	Class
1	Coordinator	Ms. Anushka Saptarshi Mali	S.E
2	Mentor	Ms. Chaitanya Hemant Joshi	T.E
3	Secretary	Mr. Yash Govind Sonawane	S.E
4	Treasurer	Mr. Chetan Gopinath Thakare	T.E
5	Co-Treasurer	Mr. Harshal Vijay Kute	S.E
6	Lady-Representative	Ms. Manasi Narayan Patil	S.E
7	Member	Mr. Sai Sanjay Patil	S.E
8	Member	Ms. Chanchal Sunil Suryawanshi	S.E
9	Member	Ms. Priya Shantilal Patel	S.E
10	Member	Ms. Swarangi Satish Bakare	S.E
11	Member	Mr. Ajay Sanjay Kolse	S.E
12	Member	Mr. Pratik Samadhan Kumavat	S.E
13	Member	Mr. Omkar Sandip Kad	S.E

Faculty Achievements

Sr. No.	Name of Staff	Title of the Event	Category
1	Dr. Amol R. Rasane	Evaluator (National Screening Round)	Resource Person
2	Dr. Amol R. Rasane	Syllabus Implementation Workshop on Engg. Economics and Financial Mgt. SE Mechanical (NEP 2024 Pattern)	Workshop
3	Dr. Amol R. Rasane	Transformative Engg Pedagogy: Outcome based Education, AI enabled Teaching and Assessment Excellence under NEP 2020	FDP
4	Dr. Amol R. Rasane	Design Thinking	FDP
5	Dr. Amol R. Rasane	Syllabus Implementation Workshop on Engg. Economics and Financial Mgt. SE Mechanical (NEP 2024 Pattern)	Workshop
6	Dr. Amol R. Rasane	Autodesk Fusion CAD Fundamentals	Training
7	Dr. Amol R. Rasane	Autodesk Fusion CAM Fundamentals	Training
8	Dr. Amol Rasane, Santosh Sarode, and Vaibhav Chopade	Study of separation of adhesively bonded interface using cohesive zone material model	Book Chapter (ICRATM 2025)
9	Dr. Shivaji V. Gawali	Research Methodology and Quality Research	STTP
10	Dr. Shivaji V. Gawali	Speaker (Awareness on Research Policy and various research funds)	Resource Person
11	Dr. S. V. Gawali	Numerical and experimental analysis of flow–acoustic interaction in a hybrid muffler incorporating half-elliptical baffles	The European Physical Journal Plus
12	Vaibhav C. Chopade	Syllabus Implementation Workshop on SOLID MECHANICS SE Mechanical (NEP 2024 Pattern)	Workshop
13	Vaibhav C. Chopade	Manufacturing and Industry 4.0	Workshop
14	Yogita U. Medhane	A review on machining environments for engineering alloys: Sustainable cooling and lubrication strategies	International Conference (ICIA-MET 26)
15	Yogita U. Medhane	Research and Publication Ethics	FDP
16	Paresh D. Badgujar	Explosions and Safety	FDP
17	Paresh D. Badgujar	Advanced Thermodynamics and Combustion	FDP
18	Paresh D. Badgujar	Computational Fluid Dynamics	FDP
19	Anil D. Mandlik	Research and Publication Ethics	FDP
20	Santosh S. Sarode	Manufacturing and Industry 4.0	Workshop
21	Santosh K. Chandole	IPR and Patenting – An Academic Perspective	FDP
22	Vaibhav G. Jape	Automation in Manufacturing	FDP (NPTEL)
23	Vaibhav G. Jape	Fundamentals of Additive Manufacturing Technologies	FDP (NPTEL)
24	Vaibhav G. Jape	Mathematical Modelling of Manufacturing Process	FDP (NPTEL)

Student Achievements

Sr. No.	Name of Student	Name of Competition	International / National / Zonal
1	Mansi Patil	CNC Turning: Winner: Skill India Competition 2026	State Level
2	Aditya Patil	CNC Turning: Runner Up: Skill India Competition 2026	
3	Aditya Jagtap	CNC Milling: Winner: Skill India Competition 2026	
4	Piyush Pidiyar	CNC Milling: Winner: Skill India Competition 2026	
5	Akash Aher	CNC Milling: Runner Up: Skill India Competition 2026	
6	Pawar Apurva S.	Avishkar Research Competition SPPU Pune	University
7	Pawar Apurva S.	Avishkar Research Competition Kr. K.V.Naikshikshan Prasarak Sanstha's Nashik	Zonal
8	Pawar Apurva S.	Avishkar Research Competition PVGCOE & SSDIM, Nashik	College
9	Sayyad Tamanna J.	Avishkar Research Competition Kr. K.V.Naikshikshan Prasarak Sanstha's Nashik	Zonal
10	Kulkarni Atharwa	Avishkar Research Competition PVGCOE & SSDIM, Nashik	College
11	Tilekar Gayatri	Avishkar Research Competition PVGCOE & SSDIM, Nashik	College
12	Aringale Priti	Avishkar Research Competition PVGCOE & SSDIM, Nashik	College
13	Sayyad Tamanna J.	Avishkar Research Competition PVGCOE & SSDIM, Nashik	College
14	Mali Anushka	Participation (online Course) Udemy: Professional Email Writing in English	National
15	Bagad Punam	Participation (online Course) HP Foundation: Data Science and Analytics	National
16	Bagad Punam	Participation (online Course) HP Foundation: Introduction to Cybersecurity Awareness	National
17	Bagad Punam	Participation (online Course) HP Foundation: AI for Beginners	National
18	Bagad Punam	Participation (online Course) Simplilearn Skill up: Introduction to Generative AI Studio	National
19	Bagad Punam	Participation (online Course) Simplilearn Skill up: Introduction to MS Excel	National
20	Bagad Punam	Participation (online Course) HP Foundation: Business Email	National

21	Chaudhari Gauri	Participation (online Course) Simplilearn Skill up: Introduction to MS Excel	National
22	Bhakare Shubham	Participation (online Course) Udemy: Solid Edge 2022 CAD+NX	National
23	Kushare Omkar	Participation PVGHackHub (via Unstop)	National
24	Patel Priya	Participation Unstop	National
25	Joshi Chaitanya	SAE INDIA TIFAN	National
26	Patil Mansi		
27	Bagad Punam		
28	Deshmukh Bhayashri		
29	Kad Omkar		
30	Suryawanshi Chanchal		
31	Patil Sai		
32	Bakare Swarangi		
33	Sutar Mayur		
34	Kushare Omkar		
35	Morade Ajay		
36	Sonawane Yogesh		
37	Dusane Bhushan		

Result Analysis

❖ **Pride Toppers for the Academic Year 2024-25**

Class	Rank	Name of Student	SGPA
SE	1	Joshi Chaitanya Hemant	8.66
	2	Pawar Prajwal Shrikrishna	8.07
	3	Madhwai Asish Samadhan	7.57
TE	1	Kulkarni Atharva Santosh	8.33
	2	Paithane Dhanashri Shrikant	8.19
	3	Pawar Apurva Sanjay	8.19
BE	1	Patil Aparna Sandip	9.47
	2	Kathoke Rohan Ninu	7.95
	3	Waghchaure Yuvraj Gorakhnath	7.88

Events organised under MESA

- **Title: Drawing Competition on the Occasion of International Women's Day (Social Outreach Activity)**

- **Title: Seminar and Awareness Drive on Cow Safety & Feeding Shelterless Animals (Extension & Outreach Program)**

❖ **Title: Cyber Security Awareness Program (Social Outreach Activity)**

❖ **Title: Wellness First: Social Awareness**

❖ **Title: AI Awareness and Web Security Program**

❖ **Expert Lecture on Boiler Fundamentals and Draught Systems – Design, Efficiency, and Field Application**

❖ **National Sports Day Celebration:**

Placement Data

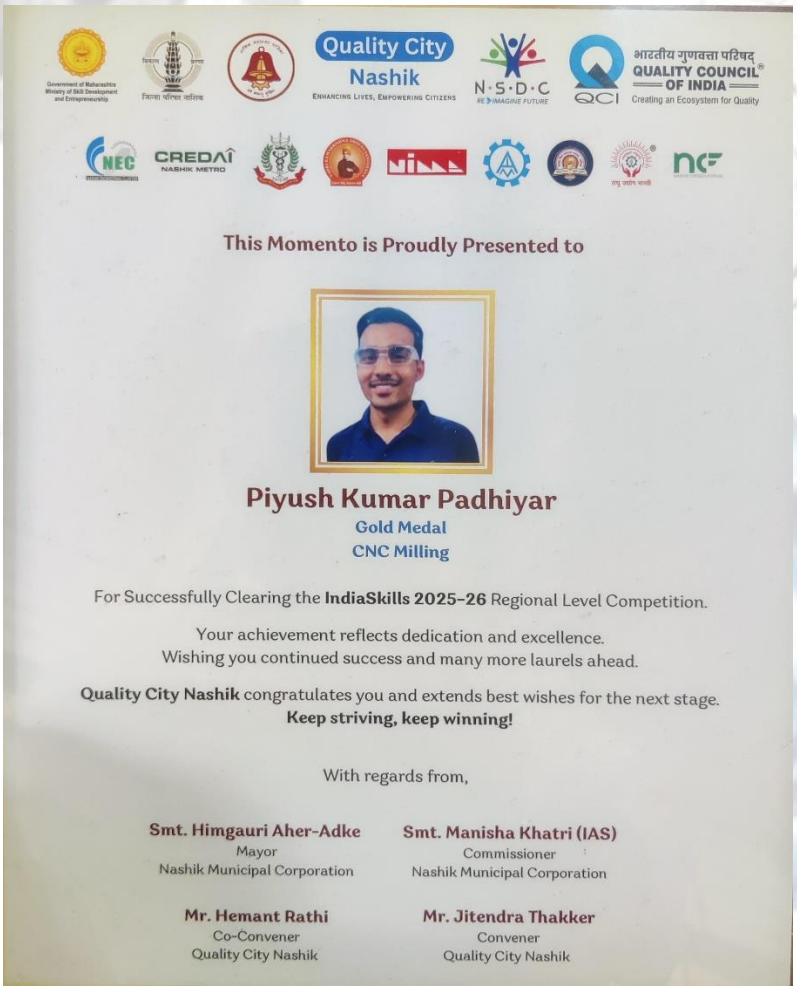
Sr. No.	Name of Student	Employer Name
1	Paithane Dhanashri Shrikant	BOSCH
		Armstrong Dematic
2	Kulkarni Atharva Santosh	Mahindra & Mahindra Ltd.
		Armstrong Dematic
3	Khule Vaibhav Navnath	MASO Group of Industries
		Bharat Forge Ltd.
4	Nagare Pratik Rajesh	MASO Group of Industries
5	Kuwar Jay Arun	Mahindra & Mahindra Ltd.
		Gram Oorja
6	Pagar Yash Bharat	Gram Oorja


Pune Vidyarthi Griha's
College of Engineering & Shrikrushna
S. Dhamankar Institute of Management, Nashik
Congratulations !
For the pre-placement offer as Project Engineer in Armstrong Dematic
ARMSTRONG DEMATIC
2025-26 BATCH
Department
MECHANICAL ENGINEERING
Atharva Kulkarni
Mechanical
Dhanashri Paithane
Mechanical


Pune Vidyarthi Griha's
College of Engineering & Shrikrushna
S. Dhamankar Institute of Management, Nashik
Department of Mechanical Engineering
Congratulations !
"India Skills Competition-2026" State Level Winners
CNC Turning
CNC Milling
MANSI PATIL
S.E.-Mech.
Winner
ADITYA PATIL
S.E.-Mech.
Runner - Up
ADITYA JAGTAP
S.E.-AIDS
Winner
PIYUSH PIDIYAR
Skill CAD-Max
Winner
AKASH AHER
Skill CAD-Max
Runner - Up

Special Achievement

1. **Gold Medalist: CNC Milling: Skill India Competition 2025-26 (Regional Level)**



Quality City Nashik
ENHANCING LIVES, EMPOWERING CITIZENS

This Momento is Proudly Presented to

Piyush Kumar Padhiyar
Gold Medal
CNC Milling

For Successfully Clearing the **IndiaSkills 2025–26** Regional Level Competition.

Your achievement reflects dedication and excellence.
Wishing you continued success and many more laurels ahead.

Quality City Nashik congratulates you and extends best wishes for the next stage.
Keep striving, keep winning!

With regards from,

Smt. Himgauri Aher-Adke
Mayor
Nashik Municipal Corporation

Smt. Manisha Khatri (IAS)
Commissioner
Nashik Municipal Corporation

Mr. Hemant Rathi
Co-Convener
Quality City Nashik

Mr. Jitendra Thakker
Convener
Quality City Nashik

2. **FMAE: DKDC Competition Winner**

Internship Details

Sr. No.	Name of Student	Name of Industries
1	Ahire Pratik Vijay	Magnus Ideas Pvt. Ltd. Nashik
2	Pawar Prajwal Shrikrishna	Slidewell Meilleur Tech. Nashik
3	Thok Vaishnavi Sainath	Slidewell Meilleur Tech. Nashik
4	Mahajan Geeta Dinesh	Slidewell Meilleur Tech. Nashik
5	Jore Vishal Vijay	Slidewell Meilleur Tech. Nashik
6	Madhwai Ashish Samadhan	Slidewell Meilleur Tech. Nashik
7	Dusane Bhushan Ramkrishna	Thyssenkrupp, Nashik
8	Bhandarkar Mrunal Manoj	Slidewell Meilleur Tech. Nashik
9	Bhalerao Indrajit Prakash	Magnus Ideas Pvt. Ltd. Nashik
10	Dhonnar Bhushan Janardan	Magnus Ideas Pvt. Ltd. Nashik
11	Ghuge Rutika Sahebrao	Slidewell Meilleur Tech. Nashik
12	Wagh Omkar Avinash	Magnus Ideas Pvt. Ltd. Nashik
13	Malpure Niranjan Pralhad	Magnus Ideas Pvt. Ltd. Nashik
14	Mandale Geetanjali Santosh	Slidewell Meilleur Tech. Nashik
15	Mandlik Prasad Sunil	Slidewell Meilleur Tech. Nashik
16	Pelmahale Ashwini Madhukar	Slidewell Meilleur Tech. Nashik
17	Kokate Pratik Sandip	Magnus Ideas Pvt. Ltd. Nashik
18	Rokade Kartik Dattatray	Slidewell Meilleur Tech. Nashik
19	Thakare Chetan Gopinath	Magnus Ideas Pvt. Ltd. Nashik
20	Sanap Harshal Sampat	Magnus Ideas Pvt. Ltd. Nashik
21	Sutar Rupam Milind	Vintage Motors & Multi Services.
22	Pillai Sujai Sanjai	Slidewell Meilleur Tech. Nashik
23	Joshi Chaitanya Hemant	Magnus Ideas Pvt. Ltd. Nashik
24	Jadhav Viraj Jaywant	Slidewell Meilleur Tech. Nashik
25	Chokhande Nikita Chandrabhan	Slidewell Meilleur Tech. Nashik

MOOC CERTIFICATION

Sr. No.	Name of course	No of students
1	Personality Development Essential training	5
2	Temperature sensor using Arduino	9
3	Generative AI for All	3
4	Generative AI for Program Manager	1
5	AI for All	4
6	Introduction to Python	4
7	React JS	5
8	Profession Email Writing in English	4
9	Servo using Arduino	8
10	Blink & LED	3
11	Getting started with Arduino Uno	1
12	ISO 900 Quality Management	23
13	Project Time Management	23
14	Introduction to Artificial Intelligence	23
15	Ansys Classic	3
16	Introduction to Python	3
17	SOM	4
18	Personality Development Essential training	3
19	Internet of Things 101	13
20	Complete Kanban From A to Z Course	13
21	Supply Chain Management	13
22	TQM Applicability in Industries	13
23	Data Science & Analytics	1
24	Introduction to Cyber Security Awareness	1
25	Business Email	1
26	AI for Beginner	1
27	Introduction to Generative AI Studio	1
28	Introduction to MS Excel	2
29	Solid Edge 2022 CAD+ NX CAD+ NX CAM	1

Utilization of Virtual Lab

Sr. No.	Class	Topic Covered
1	SE	Tensile Test
2	SE	1. Basics of Scanning Electron Microscopy: Secondary Electron and BSE imaging mode
		2. Feature Size measurement: Porosity, Grain, and Reinforcement
		3. Effect of Beam voltage on conducting and insulating samples
		4. Elemental mapping: Spot, Line and Area Analysis
3	SE	1. To study and observe various stages of casting through demonstration of the sand casting process.
		2. To design and manufacture a wooden pattern for a given casting.
		3. To study core and core making.
		4. To perform strength tests on sands.
		5. To determine the percentage of clay present in base sand.
4	TE	1. Characterize the temperature sensor (RTD)
		2. Simulate the performance of a bio-sensor
		3. Measurement of level in a tank using capacitive type level probe
		4. Characterize the LVDT
		5. Design an orifice plate for a typical application
		6. Simulate the performance of a chemical sensor
		7. Characterize the strain gauge sensor
		8. Characterize the temperature sensor (Thermocouple)
5	TE	Characterize the LVDT

Industrial Visits

Sr. No.	Subject	Name of Industry	Class
1	Applied Thermodynamics & Thermo Fluid Engineering Lab	Seva Automotive, Nashik	SE
2	Measurement Lab	Deccan Engineering Pvt Ltd, Nashik	TE
3	Fluid Power Control Lab	Auto Health Care, Nashik	TE
4	Energy Engineering	Sandip Institute of Engineering & Management, Nashik	BE

5	Dynamics of Machinery	Baba Tyres, Nashik	BE
6	HVAC&R	Krishirath farm And Krisidhan Agro Export	BE
7	TURBOMACHINERY	Karanjwan Dam	BE
8	TURBOMACHINERY	Nilgiri Pump Station	BE
9	Workshop Practices	Precise Engineering Company , Ambad	SE
10	Material Testing and Characterization Lab	Metaforge Engineering Pvt. Ltd	SE
11	Skill Development	Karanjwan Dam	TE
12	Mechatronics	Armstrong Pvt ltd, Nashik	TE

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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