



PUNE VIDHYARTHI GRIHA'S
COLLEGE OF ENGINEERING & TECHNOLOGY AND
G.K. PATE (WAND) INSTITUTE OF MANAGEMENT

NAAC EVALUATION GRADE "A" (SECOND CYCLE)

44, SHIV DARSHAN RD, PARVATI, NIRMAL BAUG COLONY, VIDYA NAGARI, PARVATI
PAYTHA, PUNE, MAHARASHTRA 411009

DEPARTMENT OF MECHANICAL ENGINEERING

DIFFERENTIAL

AY 2023-24



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1. Vision and Mission of Institute

Vision

“To Achieve Excellence in Engineering Education”

Mission

- ❖ To satisfy all stakeholders
- ❖ To develop ethical, highly motivated engineering professionals with good human values, requisite skills and competencies
- ❖ To adopt innovative teaching mechanisms
- ❖ To promote research culture
- ❖ To contribute to country's economic developments
- ❖ To be responsive to changes in technology, socio-economic and environmental conditions

1.1 Vision and Mission of Department

Vision

“To become premier source of competent Mechanical Engineers in the service of the society”

Mission

- ❖ To extend state of the art facilities and opportunities for the holistic development of the students
- ❖ To transform students into competent engineers, entrepreneurs and researchers with strong ethical, social and human values
- ❖ To undertake innovative practices in teaching-learning processes
- ❖ To strengthen collaborations with other institutions and industries to promote research
- ❖ To adapt to changes in technology for socio-economic and sustainable development

2. Program Educational Objectives (PEOs)

Graduates will be able to:

- ❖ **PEO-1: Apply** the technical skill to identify, analyze and solve engineering problems.
- ❖ **PEO-2: Develop** the entrepreneur and researcher with ethical and human values.
- ❖ **PEO-3: Analyze** the complex problems by using innovative modern tools.
- ❖ **PEO-4: Develop** professionals having administrative and managerial skills for mechanical and multi-disciplinary domains.
- ❖ **PEO-5: Demonstrate** the attribute of self-directed learning capabilities (lifelong learning) and cater to the needs of environment and society.

2.1 Program Specific Outcomes (PSOs)

- ❖ Demonstrate competency in the area of Thermal, Design, Manufacturing and to apply skills in multidisciplinary areas of engineering.
- ❖ Face competitive examinations that offer challenging and rewarding careers (pursuing higher studies, general administration or entrepreneurship) in mechanical engineering or other areas.

3. HOD's Message



The Department of Mechanical Engineering, established in 1991, began with an undergraduate program and an initial intake of 60 students, which was expanded to 120 in 2009. In 2013, the department earned recognition as a Ph.D. Research Centre by Savitribai Phule Pune University, and it proudly boasts five faculty members who serve as Research Supervisors for the Ph.D. program.

With over 46 lakhs in research funding from various organizations, the department has developed state-of-the-art facilities for research and innovation. A highlight of our department is the **Product Innovation Laboratory**, supported by **3DPLM-Dassault Systems** and **Robotics lab** which encourages groundbreaking student projects. **Dassault Systèmes** has sponsored several projects aimed at addressing social challenges. A shining example is **Team Nanoknocks**, a group of our students who received a cash prize around ₹2.5 lakhs. **Maverick** team received the award of ₹1.6 lakhs in SUPRA 2024.

We have also established strong collaborations through MoUs with leading organizations such as **Dassault Systems** and **Accurate Industries**, enhancing the learning and research opportunities for both faculty and students.

By promoting a strong research culture, we aim to bridge the gap between industry and academia. Our teaching philosophy emphasizes interactive and innovative methods, helping shape students into not only skilled professionals but also individuals with strong ethical, social, and human values.

Students in the department frequently engage in final-year projects with prestigious R&D institutions such as **DRDO**, **Bhabha Atomic Research Centre**, and renowned industries like **TATA Motors**. Our graduates have gone on to secure placements in prominent companies, including **Mitsubishi (Japan)**, **HERO Motor Corp**, **Siemens**, **Kirloskar Pneumatic**, and **Mahindra & Mahindra**. The Department of Mechanical Engineering continues to cultivate excellence, preparing students to meet the ever-evolving demands of the global engineering landscape.

- *Dr. M.M.Bhoomkar*

Head of Department

PVG's COET & GKPIOM. PUNE

4. Departmental Editorial Board



Head of Department
Dr. M. M. Bhoomkar



Staff Coordinator
Prof. S. S. Chikshe



Pratham Palekar
Student Magazine
Coordinator



Atharv Borade
Student Magazine
Coordinator



Gargi Gadgil
Student Magazine
Coordinator



Aboli Kulkarni
Student Magazine
Coordinator



Shreyash Joshi
Student Magazine
Coordinator

5. Staff Activities and Achievements

- i) Prof. S. S. Chikshe is spearheading a prestigious one-month internship program at the 3D Printing Excellence Center in collaboration with **3D Shikshan, Pune**, spanning from **December 2024 to January 2025**. This exclusive initiative has attracted the enrollment of **18 aspiring engineering students**, representing a diverse range of disciplines, including **Electronics and Telecommunication Engineering (03 participants)**, **Printing Engineering (01 participant)**, and **Mechanical Engineering (14 participants)**.



Figure 1: Initiative of Internship in 3D Printing Excellence Center

Notably, the program has also garnered interest beyond institutional boundaries, with the participation of two students from esteemed institutions—**PES Modern College of Engineering, Shivajinagar, Pune**, and **JSCOE, Hadapsar, Pune**—highlighting its multidisciplinary and inclusive appeal.

- ii) Professors P.A. Upadhye and C.R. More have taken a visionary initiative by introducing an internship facility in the domain of Robotics and Automation. This opportunity is extended not only to the students of PVGCOET and GKPIOM, Pune, but also to aspiring learners from other esteemed institutions, fostering interdisciplinary growth and excellence.



Figure 2: Initiative of Internship in Robotics & Automatio

iii) Prof. R. M. Panage participate in FDP organised by Renishaw Metrology System Ltd. Maan on 6th December 2024.



Figure 3: Prof. R. M. Panage attended FDP at Renishaw Metrology System Ltd.

6. Publications:

i) **ECO-FRIENDLY SYNERGY: A REVIEW OF FULLY BIODEGRADABLE COMPOSITES COMBINING BIOFIBERS AND PLAPHB MATRIX**

Rushabh Laddha*¹, Dhiraj Patil*², Vaishnavee Waghulde*³,

Prof. Dr. G.V. More*⁴, Prof. C.R. More*⁵

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DOI : <https://www.doi.org/10.56726/IRJMETS41395>

Abstract

This review will provide valuable insights into the performance, potential applications, and future directions of PLA- and PHA-based biocomposites reinforced with natural fibers, contributing to the advancement of sustainable and eco-friendly composite materials. Furthermore, the review will highlight various applications of PLA-based biocomposites in the biomedical field, including surgical implants, fracture fixation, stents, drug delivery systems, tissue engineering, and bone regeneration. It will discuss the advantages and limitations of PLA in these applications, as well as the need for synthetic modifications and the incorporation of bioactive substances to enhance functionality. The objective is to identify trends, challenges, and opportunities in the field and assess the mechanical, thermal, and biodegradable properties of these biocomposites. The findings from this review will contribute to the understanding of the potential of PLA- and PHA-based biocomposites reinforced with natural fibers and help inform decision-making in material selection and optimization for sustainable composite applications.

Keywords: Biofiber, Banana, Coir, PHB, Composite, Biocomposite.

ii) **Fault Detection in Gears Using Machine Learning**

¹Deepraj Mulik, ²Tanmay Biradar, ³Ayush Khodke, ⁴Mrs. Ami Barrot,

⁵Dr. P.G. Kulkarni, ⁶Mrs. Rashmi Pakankar

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^{4,5,6}Project Guide Mechanical Engineering Department, Pune Vidyarthi Griha's College of Engineering Pune, Pune Email : principal@pvgcoet.ac.in

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Abstract:

Gears are essential components in various machinery, including automobiles and rotating equipment. When gears fail, it can lead to significant losses. This paper discusses a method for detecting and analysing gear faults to mitigate such risks. To achieve this, a specialized test setup is constructed to examine gear faults experimentally. This setup collects vibration data from both healthy gears and those deliberately made faulty. The collected data is then analysed using the Fast Fourier Transform (FFT) technique, implemented through LabVIEW software. This analysis provides insights into the time and frequency domains of the vibration signals, aiding in identifying fault patterns. Subsequently, an Artificial Neural Network (ANN) is trained using MATLAB with the processed vibration data. This trained ANN forms a system capable of detecting faults in gears based on the patterns learned from the experimental data. In summary, this research presents a comprehensive approach to gear fault detection, utilizing experimental studies, signal processing techniques, and machine learning algorithms.

Keywords —Gear faults, Machinery, Vibration analysis, Fast Fourier Transform (FFT), LabVIEW, MATLAB, Artificial Neural Network (ANN), Fault detection.

iii) Development Of ML Model For Rotating Machinery

Aarya Deshpande¹, Gayatri Bhor², Shweta Bagal³, Pravin Kulkarni⁴, Ami Barot⁵, Rashmi Pakankar⁶

1,2,3(Student, Dept Of Mechanical Engineering, Pvg's Coet & Gkpiom, Pune) 4,5,6(Asst. Prof., Dept Of Mechanical Engineering, Pvg's Coet & Gkpiom, Pune)

Abstract :

This paper explores using machine learning to spot faults in bearings of rotating machinery. By studying data gathered from LabVIEW, the aim is to find the most effective ML techniques to find whether a bearing is faulty and what kind of fault it has. This research can help to improve maintenance and reliability in industries relying on rotating machinery. This project focuses on using advanced machine learning and Fast Fourier Transform (FFT) analysis to detect faults in bearings before the machine failure. By analyzing vibration data, transformed it into frequency components, allows to identify potential faults. The training of machine learning models is to distinguish between healthy and faulty conditions. The goal is to enhance predictive maintenance, reduce downtime, and improve safety across various industries. The project not only advances bearing fault detection but also sets a new standard for using machine learning in predictive maintenance.

Keywords: Fast Fourier Transform, LABVIEW, data acquisition, feature extraction, Linear regression, decision

iv) Practical Analysis, Assembly and Testing of Pick and Place Gantry System

**Rushabh Laddha^{*1}, Dhiraj Patil^{*2}, Vaishnavee Waghulde^{*3},
Prof. Dr. G.V. More^{*4}, Prof. C.R. More^{*5}**

1Prof.Rashmi S Pakankar 2Raghav S Tikotkar , 3Yash D Chavan, 4Avinash D Dhavale, 5Kalyani V Saitwal

1Assistant Professor, 2-5UG Students, Mechanical Engineering Department, Pune Vidhyarthi Griha's College of Engineering and Technology, Pune- 411009, India.

Abstract: industrial requirements, the processes are very fast and efficient to save time and manpower. Handling involves the movement of materials from one place to another in a safe way without destroying the material for the purpose of processing or storing. In industries, it is very important and necessary to use a material handling system to move material from one place to another place continuously to minimize operation time. In this research paper the material handling equipment is developed for picking large sized plates/sheets and placing it on laser cutting machines in manufacturing companies for further operation, i.e large sheets will be cut on laser cutting machines in desired way which will be required for the further manufacturing process. A pick and place system helps to load and unload the Large Metal Sheets. This research paper contains problem statements, objectives of the project, implementation and working of the project.

Index Terms– Thermoacoustic, Thermoacoustic refrigerator, Refrigerating effect, Cooling effect

4. Student Activities and Achievements

- i) Final Year student's project "Multipurpose Material Handling Robot" Sponsored by La Foundation Dassault Systems was appreciated at 3D Experience forum at Bangalore by Mr. Bernard Charlès, CEO Dassault Systems, France. This project was partially funded by Dassault System and selected as one of the best projects to showcase at 3D Experience forum -2024. Samadhan Bhavar, Nikhil Koshti, Pradnya Sonar and Shantanu Kulkarni from B.E. Mechanical worked in the project under the guidance of Prof. Vishal Chavan.



Image 4: project "Multipurpose Material Handling Robot" appreciation by 3D Experience forum at Bangalore.

- ii) Third Year Student's mini project "Smart Ladder" has won 2nd Prize in 'open innovation category' at National Level competition DIPEX 2024 held at 7th to 10th March 2024 at Nerul Min that Mr. Atharva Borhade, Mr. Nikhil suryawanshi, Mr. Piyush Pansare and Mr. Nilesh karkhele worked in the project under the guidance of Dr. M. M. Bhoomkar. On this project patent is filed and published under the guidance of Prof. R. H. Tike. Heartiest Congratulations to all of them.



Image 5: Prize received in Dippex 2024 competition & felicitation.

'Team Maverick' official Student Formula Racing team of PVG's COET&GKPIOM, Pune has won All India Rank Second in Formula Bharat 2024 Competition held at Coimbatore,

- i) India in February 2024. Sumeet Dhanedar, Captain and 24 more students participated in the competition from the Mechanical Department. Prof. Vishal Chavan, Faculty Advisor guided the students.



Image 6: 'Team Maverick' has won All India Rank Third in Formula Bharat 2023 Competition held at Coimbatore, India.

- ii) 'Team Maverick' official Student Formula Racing team of PVG's COET&GKPIOM, Pune has won All India Rank Third in Formula Bharat 2023 Competition held at Coimbatore, India. Rohit Desai, Captain and 24 more students participated in the competition from the Mechanical Department. Prof. Vishal Chavan, Faculty Advisor guided the students.



Image 7: 'Team Maverick' has won All India Rank Third in Formula Bharat 2023 Competition held at Coimbatore, India.

- iii) 'Team Conquistador' official SAE BAJA team of PVG's COET&GKPIOM, Pune has won all India Rank Two in Suspension and Traction event of ATVC 2023 Competition



Image 8: 'Team Conquistador' official SAE BAJA team won All India Rank Two in Suspension and Traction event of ATVC 2023

held at Pune, India. Harshadeep Awari, Captain and 24 more students participated in the competition from the Mechanical Department. Prof. Vishal Chavan, Faculty Advisor guided the students.

Vi) **Patents filed for projects**

Sr. No.	Name of the Student	Title	Patent Application Number	Status
1	Atharva Borhade Nikhil Suryawanshi Piyush Pansare	Smart Ladder	202421015069 A	Filed
2	Manomay Bhosale, Sujay Teredesai Yash Yeole	Autonomous Intensity controlled Fog Lamp with SOS System for Electric Vehicle	202421005855	Published on 23-02-2024

5. Guest Lectures

- iii) Workshop on “Skill Development in Artificial Intelligence Tools” by Mr. Vijay Bhambri, Kritika Technical Academy, dated 15/01/2024 to 19/01/2024.
- iv) 5 days value added course on “GD&T/CMM” by Mr. A. Y. Momin, Accurate Industries, Hadapsar, Pune, dated 15/01/2024 to 19/01/2024.
- v) Hands-on training on Ansys by Mr. Shrirang Ghadyalji, Phakatkar Academy, dated 15/01/2024 to 18/01/2024.

6. Workshops

The 3D Printing Excellence Center successfully hosted and executed two distinguished one-day workshops on the advanced domain of "3D Printing Technologies," spearheaded by the esteemed Prof. S. S. Chikshe.

- i) The inaugural workshop, conducted on the 1st of November 2024, catered exclusively to the third-year diploma students of PVG's Maharashtra Institute of Printing Technology, Pune (MIPT). This session saw the participation of 50 keen learners, fostering an in-depth exploration of cutting-edge 3D printing methodologies.



Image 9: 3D Printing Excellence Center PVGCOET & GKPIOM

- ii. The second workshop, held on the 16th of December 2024, was tailored for first-year engineering students from Anantrao Pawar College of Engineering & Research, Pune (APCOER), further solidifying the center's commitment to disseminating technological excellence among aspiring engineers.



Image 10: project “Multipurpose Material Handling Robot

iii. Competitions

Awards and Recognitions for Projects:

Sr. No	Name of the Student	Title of Project	Academic Year	Competition Details	Organized by	Recognition/Award (if Any)
1	Atharva Borhade Nikhil Suryawanshi Piyush Pansare	Smart Ladder	2023-24	State level Project Competition “Dipex”	ABVP, Maharashtra	2 nd prize in Open innovation Category
2	Amey Sawkar Onkar Matkar Sangram Surve	Design and development of an automated filament making machine	2023-24	International Competition	BMS, College of Engineering, IIIE Bengaluru	Presented Project work at International Conference
3	Atharva Borhade Nikhil Suryawanshi Piyush Pansare	Smart Ladder	2023-24	State level Project Competition	PES’s Modern COE, Pune	2 nd prize
5	Abhinav Kulkarni Anaya Mohite Atharva Mhabadi Sanprita Medapalli	Enhancing Tomato Harvesting Efficiency: A Novel Robot Integrated with Camera and Force Sensors	2023-24	State level Project Competition “Dipex”	ABVP, Maharashtra	Participation

iv. **Projects**

Academic Year 2023-24			
Sr. No.	Title of the Project	Category	Sponsoring Industry
1	Libro–The Library Assistant Robot (An Interdisciplinary Approach)	Interdisciplinary	PVGCOET & GKPIOM, Pune
2	Vision Based Object Sorting Robot Manipulator	Interdisciplinary	La Fondation, Pune
3	To Formulate, Analyze and Simulate Forward & Inverse Kinematics of Robotic System for the Transversely Longitudinal Framed Double Bottom Tank of a Merchant Vessel for Inspection	Interdisciplinary	Tolani Maritime Institute, Talegaon, Pune
4	Investigating the Root Causes of Fuel Pump Face Leaks and Implementing Effective Solutions	Research	Cummins Ind Ltd, Pune
5	Minimize Distortion of 20MnCr5 Spur Gear after Liquid Nitriding Process to Maintain Precise Dimension	Research	S B Engineers, Pune
6	Design And Development of Semi-Automated Robotic System for The Inspection of Double Bottom Tank of Merchant Vessels	Interdisciplinary	Tolani Maritime Institute, Talegaon Pune
7	Practical Analysis, Assembly and Testing of Pick and Place Gantry system.	Interdisciplinary	Hira Automation Pvt. Ltd. Pune
8	Enhancing Tomato Harvesting Efficiency: A Novel Robot Integrated with Camera and Force Sensors	Interdisciplinary	DIAT, Pune
9	A.I Based Smart Electric Vehicle	Research	Samvinson Engg. Pvt. Ltd. Pune
10	Optimization and Thermal Performance Enhancement of a Heat Sink Design for a 115-Watt Power Rating Using Advanced Simulation Technique	Research	Belrise ind ltd, Pune
11	Design and validation of explosive vent	Interdisciplinary	DRDO Dighi, Pune
12	Design and Development of Advanced rotary storage system for industry	Interdisciplinary	Samvinson Engg. Pvt. Ltd, Katraj, Pune
13	Analysis and Enhancement of rear axle for hybridization of Electric Drive on Swift Dzire	Interdisciplinary	Hemank Autoparts Pvt. Ltd. Pune
14	Design & Development of semi-Automation for avoiding pump stiffing	Research	KSB, Pune

ii. Industrial Visits

- i) Prof. J.S. Kulkarni, along with SE Mechanical B Division students, visited Chougule Service Station, Parvati, Pune on 23/04/2024.



Image 11: Industrial visit to Chougule Service Station, Parvati, Pune

- ii) Prof. J.S. Kulkarni and Dr. G.V. More visited Parvati Pumping Station with BE Much A & B Division students on 09th, 10th, and 11th October 2024."



Image 12: Industrial visit Parvati Pumping Station, Parvati, Pune

- iii) Prof. J.S. Kulkarni and Dr. G.V. More visited HPP, Varasgaon with BE Mech A & B Division students for 'TM/C' subject on 28th, 29th, and 30th September 2024."



Image 13: Industrial visit to HPP, Varasgaon Pune

- iv) Prof. J.S. Kulkarni visited Kayraj Dairy, Pune with SE Mechanical A & B Division students on 14th October 2024.



Image 14: Industrial visit to Kayraj Dairy, Pune

- v) Prof. J.S. Kulkarni and Dr. R.L. Edlabadkar attended boiler trials with SE Mechanical A & B Division students for 'Engineering Thermodynamics' at VIT on 15th and 16th October 2024."



Image 15: Industrial visit to 'Engineering Thermodynamics' at VIT, Pune

iii. MoU's

The Department of Mechanical Engineering at PVGCOET & GKPIOM, Pune, has entered into a Memorandum of Understanding (MoU) with BV Training and Consultancy Services, Pune. This MoU is in force from academic year 2022-23 to 2024-25. This collaboration aims to foster academic and industrial synergies, enhancing practical knowledge and skill development for students. The partnership is poised to bridge the gap between theoretical learning and real-world application.

iv. Placement Data

Sr. No	Name of the Company	No. of Students Placed	Pay Package (LPA)
1	Murakami Kaimedo, Japan	1	21.5
2	Balmer Lawrie, UAE	1	11
3	Bosch Global Software Technologies Pvt Ltd (BGSW) –	4	7
4	Atlas Copco	6	6
5	Fanuc	1	6
6	Lear Corporation	4	6
7	Brose	3	5
8	Godrej & Boyce Mfg. Co. Ltd	1	4.8
9	Godrej Lawkim Motors	1	4.8
10	Bosch Chasis	7	4.5
11	Schaeffler	4	4.5
12	Renault Nissan	2	4.25
13	Torrent Gas	5	4.25
14	Technofour Electronics	3	4.21
15	Tsubaki Conveyors	1	4.06
16	Technofour Electronics	1	3.71
17	Technofour Electronics	1	3.45
18	Wipro Pari	2	3.2
19	IFI	4	3.06
20	Helical	2	3

Interaction with the Outside World

- i) M. M. Bhoomkar participated in Departmental Advisory Board (DAB) meeting on 10th August 2024 at Anatrao Pawar College of Engineering and Research, Pune
- ii) R. L. Edlabadkar was participated as expert for Ph.D. sixth monthly presentations on 16th July 2024 at Sinhagad College of Engineering, Pune.
- iii) R. L. Edlabadkar participated as expert for Ph.D. sixth monthly presentations on 8th August 2024 at Sinhagad College of Engineering, Pune.
- iv) R. L. Edlabadkar participated as expert for Ph.D. pre-synopsis seminar on 30th January 2024 at Sinhagad College of Engineering, Pune.
- v) R. L. Edlabadkar participated as an external expert for Ph.D. progress evaluation on 17th February 2024 at Vishwakarma Institute of Information Technology, Pune.
- vi) Dr. M.M. Bhoomkar and Prof. V.S. Chavan visited Dassault Systems Ltd., Pune for an academic and industrial engagement on 19th December 2024.



Image 16: Visit to Dassault Systems Ltd., Pun

i) Dr.N. G. Jaiswal and Prof. R.M. Panage visited Mahratta Chamber of commerce Industries & Agriculture,Pune, for an academic and industrial engagement on 22nd December 2024.



Image 17: Visit to Mahratta Chamber of commerce Industries & Agriculture, Pune

ii) Dr. M.M. Bhoomkar, Dr. P.G. Kulkarni, Prof. P.A. Upadhye, and Prof. C.R. More visited Thyssenkrupp Ltd. chakan to address college autonomy syllabus-related concerns, aiming to bridge the gap between industrial needs and the traditional academic curriculum



Image 18: Visit to Thyssenkrupp Ltd, Chakan

Alumni Meet/Contribution

The Department of Mechanical Engineering orchestrated a resoundingly triumphant Alumni Meet on the 28th of December 2024, cultivating profound engagements and fortifying the enduring synergy between the alumni and the institution. In a remarkable gesture of support, the alumni collectively contributed an impressive sum of ₹1,07,500 to bolster Team Conquistador, the esteemed BAJA team.



Image 19: Alumni Meet 2024

Contribution by Alumni:

Contributor Name	Transaction Reference	Mode	Bank	Dated	Amount
Sumit Kulkarni	DLY1618436	Online	ICICI	30-Dec-24	5000.00
Mandar Deshpande	436621947295	Online			10000.00
Sanket Joshi	DLZ1935340	Online			3000.00
Ketan Paua	436662911139	Online	HDFC		10000.00
Nandan wander	4366556450880	Online	HDFC	31-Dec-2024	32000.00

