

RESUME

DR.VIDDYA SUNIL PATIL

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Ph.D (Mechanical Engineering)

Educational Qualification:-

Sr. No.	Exam	University / Board	Year	Marks%	Remark
1.	PhD	Shivaji University, Kolhapur	2024-2025	-	Completed
2.	M.E.	Shivaji University, Kolhapur	2016-2017	67.26%	First class
3.	B.E.	Shivaji University, Kolhapur	2013-2014	65.47%	First class
4.	D.S.E	M.S.B.T.E.	2010-2011	69.97%	First class
5.	S.S.C.	Kolhapur.	2007-2008	86%	Distinction

Project Work:

❖ Ph.D. Project-

Project title- “Experimental Analysis of Machining characteristics of A286 SS material”

Project description - This project focuses on experimentally investigating the machining characteristics of A286 stainless steel under various cutting conditions. Key machining parameters such as cutting speed, feed rate, and depth of cut are analyzed for their effects on surface roughness, tool wear, and material removal rate. The study aims to identify optimal machining parameters to improve productivity and machining quality.

❖ ME Project-

Project title -“Design and Analysis of cylinder head gasket of four stroke diesel engine”

Sponsored by - Greaves Cotton Ltd Pune.

Project description - Consist structural analysis of cylinder head gasket under engine operating conditions. Analysis is carried out by using Ansys 16.2 software and also mathematical calculations are done regarding pressure application on gasket. Results are compared with experimental results.

❖ B.E. project –

Project title - “Optimization In Plant Layout and Material Handling System”.

Sponsored by - “General Machine Tools Ichalkaranji”.

Project description - This project focuses on optimizing plant layout and material handling systems to reduce material movement and handling costs. The optimized design improves workflow efficiency, productivity, and space utilization.

❖ Diploma project –

Project title - “Boll bearing attachment on lathe machine”.

Project description – Attachment is carried out to generate spherical shape.

- ❖ **Project Funding**- Get Funding of 15000 From GOSHIMA for the project “Design and Development of Prototype for fruits and vegetables for Increasing their shelf life by IOT based Hydro cooling Technology”

Software Known:

- ❖ Auto-cad
- ❖ CATIAV5
- ❖ Ansys Workbench 16.2

Experience:

- ❖ 9 years teaching Experience as Assistant professor in SITCOE Yadrav.
- ❖ Six month experience in “Research and Development center (SGI Atigre)”.
- ❖ 1 year internship in “Greaves cotton Ltd Pune”.

Hobbies:

- ❖ Writing poems.
- ❖ Reading books.
- ❖ Playing Indoor games

Publication Details

- ❖ Presented paper in International conference on Modern Era Research in Mechanical Engineering held on 29-30 September 2016 at RIT, Rajaramnagar in association with institute of engineers, India (IEI) Kolkata.
Paper title – Design and Analysis of cylinder head gasket under engine cold assembly and cold start condition.
- ❖ Presented paper in International conference on Recent Innovations in Engineering (ICRIE) held on 8-9 October 2016 at RIT, Hirasugar Institute of technology Nidsoshi, Belgavi.

Paper title – Design and Analysis of cylinder head gasket under engine cold assembly condition.

- ❖ **Paper title-** “Design and Analysis of cylinder head gasket under engine cold assembly condition” is published in **Journal of Advances in Science and Technology Vol 12, Issue No. 25, December 2016, ISSN 2230-9659**

- ❖ Presented Paper in 13th India- Japan Science and Technology Conclave: International conference on frontier areas of Science and Technology-2023 (ICFAST-2023) organized in Shivaji University Kolhapur on September 8-9, 2023

Paper title –A Review on Machining Characteristics of A286 Stainless steel Material for Different machining operations

- ❖ Presented paper in AMPT 3rd International conference organized by National Institute of Technology Jamshedpur on 13-14 July 2023

Paper title – Design and Analysis of Cylinder head gasket under Engine cold assembly and Cold start condition.

- ❖ Presented Paper in 3rd International E-Conference on Mechanical and Material Science Engineering: Innovation and Research (ICMMSE: IR 2023) organized by Department of Mechanical Engineering, Sandeep Institute of Technology and Research centre Nashik, 12- 13 December 2023 and **This paper Published in January 2024, American Institute of Physics DOI: 10.1063/5.0229727 (Scopus Journal)**

Paper Title:- A Study on Machining characteristics of A286 Stainless steel material for Turning, Milling and drilling operations.

- ❖ Presented Paper in National Conference on Interdisciplinary Advances in Sustainability & Technology (CIAST_25) organized by Department of Technology, Shivaji University Kolhapur. 6-7 March 2025.

Paper title: Sustainable drilling optimization of A286 stainless steel using the Taguchi method for Eco-friendly manufacturing, **paper published in IJTE Journal volume 48, Nov 2025**

- ❖ Published Book Chapter in book Futuristic Trends in Mechanical Engineering, Published in Iterative International Publishers (IIP) , Volume:3, Month:May, Year:2024 Page No.64-

82,e-ISBN:978-93-5747-908-0

DOI/Link:<https://www.doi.org/10.58532/V3BKME4P1CH6>

Book Chapter Title- Design of Cylinder Head Gasket

- ❖ Published Book Chapter in Springer Nature book Title- Advancements in Materials Processing Technology, Volume 1 ISBN 978-981-97-4957-7

Book Chapter Title- Design and Analysis of Cylinder Head Gasket under Engine Cold Assembly and Cold Start Condition

Strengths

- ❖ Can effectively work in team as well as an individual.
- ❖ Hardworking.
- ❖ Good Presentation skill.
- ❖ Ready to work on new things.
- ❖ Enthusiastic leadership approach.

Personal Details:

Name : Dr. Viddya Sunil Patil
Date of Birth : 5 March, 1992
Gender : Female.
Marital Status : Married
Permanent Address : A/P: Rangoli,
Tal. : Hatknangle, Dist.: Kolhapur,
Maharashtra.
E-mail : vids204@gmail.com
Phone 9850202728
Languages Known : English, Hindi, and Marathi.

Declaration:

I do hereby declare that all the information furnished above is true to the best of my knowledge.

Date:-
Place:-

Yours Faithfully

DR. VIDDYA SUNIL PATIL