

## **PROF. R. D. RAKHADE**

Assistant Professor,  
Dept. of Mechanical Engineering,  
K. K. Wagh Institute of Engineering Education  
and Research, Nashik. 422003.  
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Mobile: +91-9970654645  
M. Tech in Industrial Process Equipment Design  
(Mechanical Engineering),  
Professional Experience- 11 Years 10 Months  
(17/07/2023)



### **PROFESSIONAL EXPERIENCE**

**Organisation : K. K. Wagh Institute of Engineering Education and Research, Nashik. (Pune University)**

Designation : Assistant Professor (UGC Approved)  
Duration : (17 June 2013 to till date) 10 Years 01 Months  
Responsibility:

#### *Departmental-*

Subject Taught  
MESA Coordinator  
Project Coordinator  
NSS Coordinator  
Mentor Coordinator  
Project and Seminar Guide

R & D Coordinator  
GATE Centre Coordinator.  
NAAC Criteria 2 Committee member  
NBA criteria 6 Coordinator.  
Admission Committee member  
Autonomy Committee member

#### *Institute-*

Facilitation Centre Co-coordinator  
Application Receipt Centre Co-coordinator  
Feedback Mechanism Co-coordinator  
First Year Admission Co-coordinator  
Direct Second Year Admission  
Co-coordinator

ARIIA Co-coordinator  
MACCIA Coordinator  
Innovation centre Committee member  
AICTE Idea lab Committee member

#### *University-*

University Exam Invigilation duty  
Paper Assessment in CAP centre

Internal and external Examiner for Oral /  
Practical / TW Exam.

**Organisation : S.N.D. College of Engineering & Research Centre, Yeola, Nashik. (Pune University)**

Designation : Assistant Professor (UGC Approved)  
Duration : (8 Sep 2011 to 12/06/2013) 1 Year 9 Months  
Responsibility:

#### *Departmental-*

Subject Taught

Admission Committee member

#### *Institute-*

Newsletter Editor  
Application Receipt Centre

First Year Admission  
Direct Second Year Admission

#### *University-*

University Exam Invigilation duty

Paper Assessment in CAP centre

## **SCHOLASTICS**

- 2011 M.Tech. in Industrial Process Equipment Design from Sardar Vallabhbhai National Institute of Technology (NIT) Surat, Gujarat with 8.14 CGPA (1<sup>st</sup> Class with Distinction).  
2008 B.E. in Mechanical Engineering from Government College of Engineering, Chandrapur (GEC), Nagpur University, Maharashtra with 67.30 % (1<sup>st</sup> Class with Distinction).  
2005 Diploma in Mechanical Engineering from Government Polytechnic (GP), Bramhapuri, Chandrapur, MSBTE Board, Maharashtra with 74.00 % (1<sup>st</sup> Class).  
2002 Higher Secondary from Nagpur Board, Maharashtra with 58.67%  
2000 Matriculation from Nagpur Board, Maharashtra with 59.06%

## **RESEARCH PAPER REVIEWER**

Research Paper Reviewer of MECHPGCON- 2015, The First Mechanical Engineering Post Graduate Students Conference, Organised by Flora Institute of Technology, Pune in Association with BOS, Mechanical Engineering, SPPU, Pune, July 2015

## **SCIENTOMETRIC INDICATOR**

Google Scholar

Total Papers	Citations	h-index	i10-index	Link
23	36	3	1	<a href="https://scholar.google.com/citations?user=QfmT2MAAAAAAJ&amp;hl=en&amp;authuser=1">https://scholar.google.com/citations?user=QfmT2MAAAAAAJ&amp;hl=en&amp;authuser=1</a>

Paper Published in International Journals: 13

Paper Presented in International Conferences: 06

Paper Presented in National Conferences: 05

Resource Person For Expert Talk/Hands-On Training: 12

Organised Workshops/STTP/FDP: 15

Organised Expert talks/ Webinar : 50

Attended Workshops/Sttp/Fdp/Seminars/Webinar/ Technical Event: 46

Ug Project Guidance : 26

## **MEMBERSHIP OF PROFESSIONAL BODIES**

Life Member of Indian Society For Technical Education (ISTE), LM 82957, 2012

Life Member of International Association of Engineers (IAENG), 320427, 2022

## **TEACHING PAPERS**

Paper Name	Academic Year
Engineering Graphics –I	2011-12, 2012-13, 2013-14, 2014-15, 2015-16, 2016-17, 2017-18, 2018-19.
Engineering Graphics –II	2011-12, 2015-16, 2016-17, 2018-19, 2021-22
Basic Mechanical Engineering	2011-12, 2012-13, 2016-17, 2017-18.
Project Based Learning I	2019-20, 2021-22
Workshop Practice	2020-21, 2021-22
Strength of Material	2013-14, 2014-15, 2015-16, 2016-17.

Solid Mechanics	2022-23
GMPD	2023-24
Theory of Machines – II	2012-13.
Skill Development	2014-15, 2015-16, 2019-20, 2020-21
Machine Shop I	2019-20.
Project Based Learning II	2020-21,2021-22
Mechatronics	2022-23
Surface Engineering	2022-23
Automobile Engineering	2014-15.
Robotics	2013-14, 2014-15.
Industrial Engineering	2015-16, 2016-17, 2018-19, 2019-20, 2020-21,2021-22, 2022-23. 2023-24
Finite Element Analysis	2019-20, 2020-21, 2021-22
Product Design & Development	2022-23, 2023-24
Computer Integrated Manufacturing	2022-23
Mechanical System Analysis Laboratory	2022-23
Turbomachinery	2023-24

### **ACADEMIC PROJECTS**

Title : Design of Heat Pipe using Grenade Explosion Algorithm (M.Tech. Project)

Organisation : Sardar Vallabhai National Institute of Technology, Surat, Gujarat.

Duration : 2010 – 2011 (1 year)

Guided By : Dr R. V. Rao

Synopsis : The aim of the project is to evaluate the effectiveness of the grenade explosion method (GEM) in minimizing the total mass and maximizing the heat transfer rate of a heat pipe. GEM is a non-traditional optimization technique that was developed in 2009. To achieve this aim, a code was prepared using MATLAB 7.0 tool for the design of the heat pipe. The performance of the GEM was then evaluated based on the result obtained from the design code.

Title : Design & Analysis of Rocker Arm using Finite Element Method (B.E. Project)

Organisation : Government College of Engineering, Chandrapur, Maharashtra

Duration : 2007 – 2008 (1 year)

Guided By : Prof. S. W. Burande

Synopsis : The aim of this project is to perform finite element analysis (FEA) in order to optimise the mass, rotational inertia, and stiffness of a rocker arm. To achieve this aim, the CAD model of the rocker arm was created using PRO-E V3 tool, and the model was then analysed using ANSYS V11 tool.

Title : Paddy Husk Stove (Diploma Project)

Organisation : Government Polytechnic, Bramhapuri, Chandrapur, Maharashtra

Duration : 2004 – 2005 (1 year)

Guided By : Prof. A. A. Jagdale

Synopsis : The main objective of this project is to produce thermal energy by utilizing paddy husk, a byproduct of rice milling. The project aims to design and fabricate a paddy husk stove at minimum cost, which could benefit poor people who do not have access to conventional fuel sources.

### **KNOWLEDGE PREVIEW**

Main Subjects during M. Tech. Course Period: Pressure Vessel Design, Heat Exchanger Design, Principle of Design of Process Equipment, Finite Element Methods, Professional Practice and Legislation.

Main Subjects during B.E. Course Period: Machine Design, Theory of Machine, Strength of Material.

### **IT SKILL SET**

Programming language : C,C++, MATLAB, Python

Modelling Tool : PRO-E , Autocad

Analysis Tool : ANSYS , PV Elite, Flexsim

Online Teaching Tool : Udemy, YouTube, Zoom, Google Meet, LogMeIn,

### **INDUSTRIAL TRAINING**

Company : Shilpa Engineering Nashik. Pvt. Ltd. J19, MIDC, Ambad, Nashik, Maharashtra.

Duration : (12 June to 26 June 2023) 15 Days

Synopsis : To acquire real life experience related to the subject to enrich teaching learning process, exposure to industrial facilities and latest trends.

Company : M/s. Wezmann Tools Pvt. Ltd. S/23, MIDC, Ambad, Nashik, Maharashtra.

Duration : (8 May to 22 May 2019) 15 Days

Synopsis : To acquire real life experience related to the subject to enrich teaching learning process, exposure to industrial facilities and latest trends.

Company : Chandrapur Super Thermal Power Station, Chandrapur, Maharashtra.

Duration : (1 June to 30 June 2007) 1 Month

Synopsis : Gained knowledge related to different sections of power plant like Boiler, Cooling Tower, Coal handling, Steam Turbine, Water treatment etc.

### **Revenue Generation (Training course / Consultancy/Testing)**

Mahindra & Mahindra : Provide training on world class manufacturing to staff of Mahindra & Mahindra Igatpuri industry 2022-2023.

GATE Coaching : Provide GATE Exam coaching to 10 third year student of Mechanical Engineering 2019-20 batch

### **ONLINE TEACHING**

**Platform : Udemy**

**Name : Rahul Rakhade**

**Objective : To Provide good quality of free online study material on mechanical engineering to engineering students**

Sr. No.	Name of Courses	Enrolled students	Rating	Link
01	Industrial Engineering	2283	4.7	<a href="https://www.udemy.com/course/industrial-engineering/?referralCode=A7162365C7B7F4B771AD">https://www.udemy.com/course/industrial-engineering/?referralCode=A7162365C7B7F4B771AD</a>
02	Simulation Modeling for Industrial Applications	1448	4.4	<a href="https://www.udemy.com/course/application-of-simulation-in-industrial-engineering/?referralCode=1E8BE0765A403E980731">https://www.udemy.com/course/application-of-simulation-in-industrial-engineering/?referralCode=1E8BE0765A403E980731</a>

03	Finite Element Analysis	2147	4.1	<a href="https://www.udemy.com/course/fundamental-concepts-of-finite-element-analysis/?referralCode=66122D6B587DDD770F1B">https://www.udemy.com/course/fundamental-concepts-of-finite-element-analysis/?referralCode=66122D6B587DDD770F1B</a>
04	Finite Element Analysis by Application of Software	1951	4.3	<a href="https://www.udemy.com/course/practical-approach-in-finite-element-analysis/?referralCode=C49B7BEE5E57503591C9">https://www.udemy.com/course/practical-approach-in-finite-element-analysis/?referralCode=C49B7BEE5E57503591C9</a>
05	Project Management	2607	3.9	<a href="https://www.udemy.com/course/engineering-project-management/?referralCode=E7E1DFB58818BB7A00BE">https://www.udemy.com/course/engineering-project-management/?referralCode=E7E1DFB58818BB7A00BE</a>

**Platform : Youtube**

Name : Rahul Rakhade

Objective : To Provide good quality of free online study material on mechanical engineering to engineering students

Videos : 74

Subscribers : 540

Views : More than 63000

Link : <https://www.youtube.com/user/Rahrak1984>

**EXTRA CURRICULUM**

GATE 2009 Scholarship holder (93.67 percentile).

NCC 'A' Certificate , and 'B' Certificate cleared

Won first prize in Inter - group zonal Basketball competition held at Nagpur.

**PERSONAL VITAE**

Date and place of Birth: 24th Oct. 1984, Chandrapur (Maharashtra)

Nationality : Indian

Linguistic Abilities : English, Hindi & Marathi.

Marital Status : Married

**Permanent Postal Address:**

Prof. Rakhade R.D.

Flat No. 6, Haridarshan Apartment,  
Jatra-Nandur Link Road, Vrundavan Nagar,  
Near Adgaon Police Station, Nashik.

Dist – Nashik, Maharashtra, Pin Code-  
422003.