

Profile

ONKAR POTADAR

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BRIEF INFORMATION

Ph.D. (Pursuing)	Pursuing Ph.D. in Mechanical Engineering, from Fr. Conceicao Rodrigues College of Engineering, Bandra(W), Mumbai – Mumbai University: Admission Year: 2024		
MBA	MBA in Artificial Intelligence and Machine Learning from D. Y Patil University. (2025)		
PG	Master of Engineering (Mechanical Engineering) From Mumbai University		
UG	Bachelor of Mechanical Engineering from KLE University (VTU), Karnataka		
Experience	Academics	11 Years	Assistant Professor, SIES Graduate School of Technology, Nerul, Navi Mumbai
	Industry	01 Years	Quality Control Engineer, EMI Transmission Ltd, Nashik
Patent	01	Received design patent titled “Image Acquisition Device for Spur Gears” by Indian Patent Office, on 21.08.2015.	
Publications	Journal	01	Procedia Manufacturing, Elsevier , Volume 20C, 2018, Pages 91-96
	Conferences	04	1. ICMMD-16 (BATU, Lonere) 2. COPEN10 (IIT M) 3. ICMMD-17 (BATU) 4. ICIMA-18* (DJSCOE, Vile Parle) *ICIMA-18 Proceedings is published in Springer .
	Textbooks	02	“ <i>Fluid Mechanics</i> ”, Nandu Printers and Publishers, Mumbai, 2018 “ <i>Thermodynamics</i> ” Nirali Prakashan, Pune, 2021
Software	1. AutoCAD (2 D, 3-D) 2. Solid Works (Part Modeling)		
NPTEL Courses	1. Product Design and Development, 12 week, May 2025 – Score – 88 % (Top 5%) 2. Computer Integrated Manufacturing 12 week, May 2025 – Score – 87 % (Top 5%)		

ACADEMIC CHRONICLE

Course	Name of the institution	Year of Passing	Aggregate marks
Ph.D. (Pursuing)	FrCRCE, Bandra (Mumbai University)	Pursuing Admission Year: 2024	--
M.E (Mechanical)	Mumbai University	2014	69.00%
B.E(mechanical)	BVBCET, HUBLI	2009	65.00%
HSC	HSK college, HUBLI	2005	78.16%
SSC	Govt. JTS, HUBLI	2003	73.09%

EXPERIENCE

ACADEMIC EXPERIENCE: (Total 11 Years)

- **Assistant Professor in Department of Mechanical Engineering, Fr. Conceicao Rodrigues College of Engineering, Bandra(W), Mumbai**

Total Experience: 1 years (June 2024 to May 2025)

Subjects Taught: Engineering Mechanics, Engineering Graphics, Thermal Engineering

- **Assistant Professor in Department of Mechanical Engineering, SIES Graduate School of Technology Nerul, Navi Mumbai**

Total Experience: 10 years (June 2012 to November 2021)

Subjects Taught: Fluid Mechanics, Thermodynamics, Fluid Machinery, Engg. Mechanics, Engineering Graphics

- **Lecturer in Lokmanya Tilak College of Engineering, Navi Mumbai**

Total Experience: 01 Years (Aug 2011 to May 2012)

Subject Taught: Kinematics of Machinery and Production Process-I

INDUSTRIAL EXPERIENCE: (Total 3 Years)

- **Organization:** EMI Transmission Ltd. Thane

Profile: QA Trainee Engineer: Responsible for final inspection of hardware semi assembly before dispatch.

Duration 1 year

➤ **Digital Marketing**

Have worked with different clients as a freelancer in implementing effective digital marketing strategies.

Duration: 2 Year

PUBLICATIONS:

1. Patent: Registered a Patent on my design work in developing a gear measuring model which was my PG Project. It is published by Patent Office Journal, dated, 21/08/2015, by Controller General of Patents, Design and Trademarks, India.

2. Conferences: Total four international conferences, out of which one has been published by Elsevier Procedia Manufacturing, the other one is published in springer mechanical lecture notes.

Published Research areas: Green-Composites, Plant layout optimization

ACHIEVEMENTS

- Registered for a “**Patent in Design Category**” for my work on “Image Capturing Device for Measurement of Geometry of Gears”.

Design Registration no: 267711

Current status of Patent: The patent has been published in Indian Patent Journal, and certificate issued from the registered Patent Office.

- Created video tutorials for students to learn online.

WORKSHOPS AND CERTIFICATIONS

- Coordinated a Two-Week Workshop on “Fluid Mechanics”, conducted by IIT Kharagpur, under MHRD, NMEICT Mission at SIES GST Nerul.
- Participated in "One-week AICTE sponsored QIP course on Renewable Energy Sources at VJTI, Mumbai."
- Participated in One- Week Coordinator’s Workshop on “Fluid Mechanics” at IIT Kharagpur.
- Participated in Two Week Workshop on “Basic Thermodynamics”, conducted by IIT Bombay, under MHRD, NMEICT Mission at SIES GST Nerul.
- Participated in Two Week Workshop on “Engineering Mechanics”, conducted by IIT Bombay, under MHRD, NMEICT Mission at SIES GST Nerul.
- Participated in Two day workshop on “Intellectual Property rights” at Fr. Agnel College of Engineering Bandra West, Mumbai

ACADAMIC PROJECT

PG Project:

Project title: “Development of Algorithm for Metrological Inspection of Spur Gears Using Matlab”.
Description: In the titled project, a model has been developed for measurement of geometrical parameters of spur gears. Machine Vision and Image processing technology are used to develop the model. Algorithm are developed for image processing and analysis using Matlab. The camera based device is interfaced with Matlab software. The developed model is helpful in reducing the measurement time and also increases the accuracy.

STRENGTHS

Positive attitude

Good convincing ability

High level of motivation

Willingness to walk an extra mile to achieve excellence

LANGUAGE PROFICIENCY

- English
- Marathi
- Hindi
- Kannada