



## Department of Mechanical Engineering

### Faculty Profile

#### **Dr. Manoj Ramesh Dahake**

**PhD** (Mechanical Engg.), **MTech** (Thermal), **BE** (Mechanical)

Assistant Professor

[mrdahake@aiissmscoe.com](mailto:mrdahake@aiissmscoe.com)

☎ (020) 26058587

☎ +91-9890851785



#### **ResearchAreas/ Areas of Interest**

IC Engine, Alternate Fuels, Heat Transfer

#### **Personal Details**

**Date of Birth :** 03 / 06 / 1983

**Domicile:** Maharashtra

**Gender :** Male

**Blood Group:** O+ve

**Contact Details:** A206, Woods Royale, S.No.71, Kothrud, Pune – 411038

### Academic Background

S. NO.	Qualification	Specialization	University	Class/Grade	Year of Passing
1	Ph.D.	Mechanical Engineering	SPPU Pune	Awarded	May 2022
2	M.Tech.	Thermal Engineering.	SGBAU Amaravati	A+	May 2008
3	B.E.	Mechanical Engineering	Mumbai	I <sup>st</sup> with Distinction	May 2005

### Work Experience

S. No.	Type of Experience	Years	Months
1	Teaching	15	02
2	Research	00	00
3	Industry	1	00
<b>Total</b>		<b>16</b>	<b>02</b>

### Subjects/Courses Taught

S. No.	Subject	UG/PG	Class (FE/SE/TE/BE/ME)	No of times Subject Taught
1	Heat Transfer/ Heat and Mass Transfer	UG	TE (Mechanical)	14
2	Heat Transfer	UG	TE (Mechanical SW)	01
3	Applied Thermodynamics	UG	TE (Mechanical)	06
4	IC Engine	UG	TE (Mechanical)	06
5	Automobile Engineering	UG	TE (Mechanical)	04
6	Advanced Fluid Mechanics	PG	FY(Mechanical – Thermal Engg. )	03

## Research Publications

	National	International	State	SCI/ Scopus Indexed	UGC Approved
<b>Journals</b>	00	09	00	03	--
<b>Conferences</b>	03	02	00	01	--

## Publication Details (Journals)

S. No	Document Details	Authors	Year	Source Details	ISBN/ ISSN
1	A Novel Optimal Solution for Utilizing Plastic Waste for Making Construction Material	P S Gajjal, M R Dahake	2022	International Journal of Engineering Trends and Technology	ISSN: 2231 -5381
2	A novel optimized vibration analysis system for PG rotatory system	P S Gajjal, M R Dahake	2022	International Journal of Dynamics and Control	ISSN 2195-2698
3	Experimental investigation of performance and emissions of CRDI diesel engine in dual fuel mode by hydrogen induction and diesel injection coupled with exhaust gas recirculation	M R Dahake, D N Malkhede	2021	Materials Today Proceedings	ISSN 2214-7853.
4	Effect of hydroxy gas addition on performance and emissions of diesel engine	M R Dahake, S D Patil	2016	International Research Journal of Engineering and Technology	ISSN 2395-0072
5	Performance and emission improvement through optimization of venturi type gas mixer for CNG engines	M R Dahake, S E Patil	2016	International Research Journal of Engineering and Technology	ISSN 2395-0072
6	Experimental Investigation	A N	2016	International	ISSN 2395-

	of Single Cylinder Diesel Engine with Sesame Oil and Ethanol Blends at Various Compression Ratios	Sahastrabuddhe, M R Dahake		Research Journal of Engineering and Technology	0072
7	Performance analysis of Automobile Air Conditioning System Using Propane (R290)	A P Srivastava, M R Dahake	2016	International Research Journal of Engineering and Technology	ISSN 2395-0072
8	The Effect of HHO and Biodiesel Blends on Performance and Emission of Diesel Engine- A Review	K A Kale, M R Dahake	2016	International Journal of Current Engineering and Technology	ISSN 2347-5161
9	Numerical simulation and experimental investigation of Variable Geometry Turbocharged diesel engine for off-highway diesel engine	AS Kulkarni, RD Bhuva, PS Diwate, MR Dahake, DN Malkhede	2016	International Journal of Current Engineering and Technology	ISSN 2347-5161

#### Publication Details (Int. Conferences)

S. No	Document Details	Authors	Year	Conference Details	ISBN	Organised by
1.	Experimental study of CNG engine with different ventury configurations	M R Dahake, S E Patil	2020	International Conference on Integration of Advanced Technologies for Industry 4.0	--	KCG College of Technology Chennai.
2	Experimental Investigation of Performance and Emissions	M R Dahake, S D Patil, D	2019	International Conference on Advances	-	KIIT Bhubaneswa

	of Single-Cylinder Diesel Engine Enriched by Hydroxy Gas for Various Compression Ratios	N Malkhede		in Mechanical Processing and Design		
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#### PhD / ME / BE Student Guided for Project

Level	Ph.D.	M.E. (PG)	B.E. (UG)
No. of Student guided	-	06	52

#### Professional Memberships

Professional Body	Level ( National/ International)	Type (Fellow/Life/Annual)	Membership No.
Society of Automotive Engineering	National	Annual	7180510545

#### Details of Workshop/STTP/FDP/Seminar / Conferences Organized

S. No	Title	Type	Duration	Level (State/National/ International)	Sponsoring Agency
1	Electric Vehicles:Its Perspective and Issues	FDP	Three Days	National	AISSMS

## Details of Workshop/STTP/FDP/Conferences Attended

S. N	Title	Type	Duration	Organizer	Sponsoring Agency
1	Effective Writing	FDP	January to March 2023	NPTEL	IIT Madras
2	Advanced Pedagogy	FDP	06 <sup>th</sup> to 17 <sup>th</sup> February 2023	NITTR Kolkata	MoE Gol
3	Industry 4.0: Strategic & Technological Perspective for Indian Capital Goods Industries	STTP	8 <sup>th</sup> to 12 <sup>th</sup> December 2022	VNIT Nagpur	MHI Gol
4	"Materials & Advanced Manufacturing"	STTP	22 <sup>nd</sup> to 26 <sup>th</sup> August 2022	YTC Satara	ISTE
5	"Emerging Trends in Refrigeration and Air-conditioning"	FDP	17 <sup>th</sup> to 22 <sup>nd</sup> May 2021	COEP Pune	AICTE
6	NATE	FDP	Jan to Apr 2020	NPTEL	IISC Bangalore
7	Heat Transfer	FDP	Sep to Dec 2020	NPTEL	IIT Kharagpur
8	Renewable Energy	FDP	20 <sup>th</sup> June to 25 <sup>th</sup> July 2020	Walchand College of Engineering Sangli	TEQIP III
9	Systems using MATLAB	FDP	27 <sup>th</sup> June to 17 <sup>th</sup> April 2020	NPTEL	MHRD
10	IC Engine and Gas Turbines	FDP	27 <sup>th</sup> June to 17 <sup>th</sup> April 2020	NPTEL	MHRD
11	Reality Based welding	FDP	18 <sup>th</sup> to 22 <sup>nd</sup> May 2020	SVNIT Surat	ATAL AICTE
12	Outcome Based Education - A Step Towards Excellence	FDP	11 <sup>th</sup> May to 15 <sup>th</sup> May 2020	GCOE Karad	AICTE
13	Python 3.4.3	FDP	20 <sup>th</sup> April to 25 <sup>th</sup> April 2020	RMD Sinhgad School of Engineering Pune	Spoken Tutorial IIT Bombay

14	Three Weeks 8 credit course on “WhatsApp Outcome Based Education FDP”	FDP	24 <sup>th</sup> to 14 <sup>th</sup> April 2020	D Y Patil College of Engineering Akurdi, Pune	NPTEL & ISTE
15	Design and development of Hybrid electric vehicle	FDP	24 <sup>th</sup> February to 28 <sup>th</sup> February 2020	College of Engineering Pune	SAEINDIA & AICTE
16	Innovations in ICT Teaching Learning- A Step Towards Digital India	FDP	26 <sup>th</sup> November to 06 <sup>th</sup> December 2019	Vishwakarma Institute of Technology, Pune	AICTE
17	Vision-Mission-PEO-PSO- PO-CO: Framing, Mapping, Assessment and Attainment	FDP	10-15 June 2019	AISSMS College of Engg, Pune	ISTE

### Major Professional Responsibilities Handled

S. No.	Role and Responsibilities
1.	NAAC Criteria 3 Coordinator of institute
2.	PBAS Verification Committee member of Institute
3.	NBA Criteria 4 incharge of department
4.	Industry Institute Interaction department coordinator
5.	Heat Transfer Laboratory Incharge
6.	PAQIC Committee member

## Awards Received

S. No.	Awards
1.	Best participant Award in FDP organized by Government Polytechnic Nagpur.

**Declaration:** I hereby declare that all the statement made above are correct to the best of my knowledge and belief.

**Dr M R Dahake**

(Name with Signature)