



## Department of Mechanical Engineering

### Faculty Profile

**Dr. V R Patil (AP)**

ME (Mechanical Engineering), Ph.D.

Dean, IQAC.

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🔗 <https://scholar.google.co.in/citations?user=8nTGMEgAAAAJ&hl=en>

#### Research Areas / Areas of Interest

Alternative fuels, Waste heat recovery, Internal Combustion Engine.

#### Personal Details

**Date of Birth :** 16 / 05 / 1969

**Domicile:** Maharashtra

**Gender :** Male

**Blood Group:** O+ve

**Contact Details:** B207, OM ARCADE, S.No.73/6/2/3, Near Narayani Dham, Katraj,  
Pune – 411016

## Academic Background

S. NO.	Qualification	Specialization	University	Class/Grade	Year of Passing
1	Ph.D.	Mechanical Engineering	SPPU	--	2025
2	M.E.	Mechanical – Design Engg.	Shivaji University	1 <sup>st</sup> class with Distinction	May 2001
3	B.E.	Mechanical Engineering	Shivaji University	1 <sup>st</sup> class with Distinction	May 1992

## Work Experience

S. No.	Type of Experience	Years	Months
1	Teaching	29	-
2	Research	-	
3	Industry	1	
4.	Others	--	--
<b>Total</b>		<b>30</b>	

## Subjects / Courses Taught

S. No.	Subject	UG/PG	Class (FE/SE/TE/BE/ME)	No of times Subject Taught
1	Applied Thermodynamics III	UG	BE (Mechanical)	06
2	Applied Thermodynamics II	UG	TE (Mechanical )	05
3	Thermodynamics	UG	SE(Mechanical and Mech sandwich)	09

4	Thermal and fluid energy Conversion	UG	SE (Production sandwich)	02
5	Thermal Engineering	UG	SE (Mechanical sandwich)	08
6	Basic Mechanical Engineering	UG	First Year Engineering	02
7	Automotive Engine Design	PG	ME (Automotive)	06
8.	Engine Combustion Technology	PG	ME (Automotive)	01
9	Systems of Mechanical Engineering	UG	First year Engineering	03
10	Engineering Graphics	UG	First Year Engineering	03

### Research Publications

	National	International	State	SCI/ Scopus Indexed	UGC Approved
<b>Journals</b>	2	12		3	5
<b>Conferences</b>		3			Yes

### Publication Details (Journals)

S. No	Document Details	Authors	Year	Source Details	ISBN/ ISSN	Publisher
1	Influence of Lower Blends of Algae Biodiesel on Diesel Engine Performance and Emissions	V. R. Patil, M. M. Bhoomkar, P. G. Kulkarni, S.S. Thipse,	2025			The Archives of Automotive Engineering-Archiwum Motoryzacji

2	Investigation of performance and emissions of lower blends of algae biodiesel on variable compression ratio diesel engine.		2025			International Journal of Advanced Technology and Engineering Exploration
3						
4.	Performance and emission characteristics of Slengine using LPG- Biogas blend	1.V R Patil 2. Sagar pajankar	2015		IS SN 23 50-0077.	Journal of Basic and Applied Engineering Research
5	A theoretical model for selection of V angle and determination of firing order for balancing of V6 engine'	1.V R Patil 2. Ami Barot	2014		IS SN 22 77-861628 5	International journal of scientific and technology

6	Evaluation of Pilot injection in steady state emission of a common rail diesel engine'	1.V R Patil 2. Kiran karanjekar	2015		ISSN 2347 - 4718.	International Journal for technological research in Engineering
7	Effect of injection parameters on steady state emission of a common rail diesel Engine	1.V R Patil 2. kiran Karanjekar	2015		ISSN 2350 - 0255.	Journal of basic and applied Engineerin g research
8	Feasibility of dual fuel (LPG-Biogas ) engine to optimize the performance and emissions of SI engine.	1.V R Patil 2.Sagar Pajankar	2015		ISSN2395 -1621	International journal of Engineeerin g research
9	Sensitivity and effect of variable ignition timing and engine speed on the performance of a spark ignition engine	V R Patil	2015		ISSN 2321 - 0613	International journal of scientific Research and Development
10	Performance evaluation of ICEngine using dual mass flywheel	1.V R Patil2. Tejashree Khochare	2016		ISSN 2319 - 8753	International journal of Innovative Research in science

						,Engineering and Technolog y
11	Analysis of high tensile fastener of transmission system	1.V R Patil 2. P D Jagtap	2016		ISS N 2394 - 1537	Internationa ljournal of science technology and management
12	Performance analysis of bio nano lubricant for hydrodynamic journal bearing lubrication	1.V R Patil 2.S S Khasbage	2016		ISS N 2395 - 1621	Internationa l Engineerin g research journal
13	The effect of preheated karanja oil and its blend performance and characteristic of diesel Engine	1.V R Patil 2. Om pimp	2017		ISS N 2394 - 9333	Internationa lJournal of trend an d research and developmen t
14	Investigation of eco friendly operating conditions of Diesel engine using RUCC biodiesel blends with Additive	1. V R Patil 2.G A More	2022		ISS N: 1005 - 0086	JOURNAL OF OPTOELE CTRONICS LASER

## Publication Details (Conferences)

S. No	Document Details	Authors	Year	Conference Details	ISBN	Organised by
1.	A laboratory working model on steer by wire system.	1.V R Patil 2. Jack kenned	2014	International Conference		International Mechanical Engineering Congress (IMEC -2014) NIT - Trichy
2	A study on performance and emission characteristics of diesel engine for lower blends of Karanja biodiesel	V R Patil, Dr. S S Sane Dr. S S Thipse	2020	International Conference on Advances in Mechanical Engineering (ICAME-2020)		Department of Mechanical Engineering Visvesvaraya National Institute of Technology, Nagpur, Maharashtra
3	Effect of biodiesel(Preheated and Lower blend) on performance of diesel Engine	V R Patil, Dr. S S Sane Dr. S S Thipse	2020	International Conference on Mechanical Engineering for Sustainable Development- (ICMESD)2020		Mechanical Engg Dept, AISSMSCOE, Pune, Maharashtra.

### PhD / ME / BE Student Guided for Project

Level	Ph.D.	M.E. (PG)	B.E. (UG)
No. of Student guided	-	10	80

### Professional Memberships

Professional Body	Level ( National/ International)	Type (Fellow/Life/Annual)	Membership No.
Indian society of Technical Education(IST E)	National	Life member	LM-25403
Solar Energy Society of India (SESI)	National	Life member	LM/2581/2021

### Patents / IPR Filed / Granted

S. No	Investigator Details	Title	Year	Status (Filed/Granted)	Details
1	V R patil	Waste heat recovery by modified pan support of Domestic LPG stove	2014	Published	Application No: 3236/MUM/2014
2	V R Patil	Design and fabrication of pedal powered mopper	2017	Published	201721016260



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

S. No	Title	Type	Duration	Level (State/National/ International)	Sponsoring Agency
01	One Week FDP on “ Scilab”	FDP	1 Week (8June to 14June2020)	National	

2	Training Program on Q-CAD	STTP	1 Week	National	Spoken Tutorial IIT Bombay
3	Pune metro rail Project	Webinar	1day	National	AISSMS COE ,Pune
4	Faculty Awareness Workshop"On"Induction Program for First YearEngineering"	Workshop	1 day (19June 2019)	Regional	AISSMS COE ,Pune
5	Half Day Faculty Guidance seminar on 'PROJECT BASED Learning”	Seminar	Half day	Regional	AISSMS COE ,Pune
6	Fourth MECHPGCON	Conference	2 days (13 and 14 June 2018)	Regional	AISSMS COE,Pune

### Contribution as Resource Person

S. No.	Place/ Organization	Topic	Level(National/Int/ State/Regional)	Date
1	MIT,Pune	MECHPGCON-2016	Regional	21June 2016
2	PVPIT ,PUNE	MECHPGCON-2017	Regional	17 June 2017

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

S. N	Title	Type	Duration	Organizer	Sponsoring Agency
1	Online one week FDP on Emerging trends in refrigeration and Air Conditioning	FDP	1 week (1 Jun to 6 Jun 2020)	Pimpri Chinchwad Education Trusts Pimpri	
				Chinchwad College of Engineering and Research	
2	National level One Week Online Faculty Development Program on  “Moodle” with included a demonstration cum hands-on exposure,	FDP	1 week (28 Apr to 4 May 2020)	Spoken Tutorial Project, IIT Bombay, organised by Department of Electrical Engineering, AISSMS COE, Pune	Funded by National Mission on Education through ICT, MHRD, Government of India.
3	Outcome Based Education: A step towards Excellence	FDP	1 week (11 May to 15 May 2020)	Government College of Engineering, Karad.	
4	International FDP on Research Methodology and Techniques	FDP	3 days (4 July to 7 July 2020)	Sandip Institute of Engineering and Management Nashik	
5	Online workshop on Smart use of ICT using Wordpress (Blog Creation)	Workshop	11 May 2020	SNJB COE, Chandavda, Nashik	

6	Online Workshop on Concept, Methodology & Implementation of Problem Based Learning (PBL)	Work shop	5 May 2020	SKN College of Pharmacy, Pune	
7	Vision-Mission-PEO-PSO-PO-CO: Framing, Mapping, Assessment and Attainment	FDP	10-15 June 2019	AISSMS College of Engg, Pune	ISTE
8	IC Engine and Gas Turbine (NPTEL)	FDP	Jan-April 2019	IIT, Guwahati	
9	Energy Conservation and Waste heat recovery (NPTEL)	FDP	Sept-Dec 2020	IIT, Kharagpur	
10	Aircraft Propulsion (NPTEL)	FDP	Jul-Oct 2021	IIT, Guwahati	

## Major Professional Responsibilities Handled

S. No.	Role and Responsibilities
1	Assistant director for Central Assessment programme (CAP) of SE in 2007 and 2008 of University of Pune.
2	Assistant superintendent for IIM Bangalore –CET 2008 examination.
3	Chief Test Administrator ( CTA ) for MAH-MCA – CET 2006 examination, MBA –CET Examination 2007.
4	Presiding Officer for IIT JEE 2012 examination.
5	Presiding Officer for GATE 2013 examination.
6	Central Time table Incharge.
7	NBA co ordinator.- Mechanical Engineering Department
8	NAAC co ordinator – Mechanical Engineering Department.
9.	Subject Chairman –Thermal Engineering
10	Head, First Year Engineering Department

## Awards Received

S. No.	Awards
1.	Award from the hands of Vice Chancellor BATU about 100 % result in Applied Thermodynamics- III (BE Mechanical) 2000.