



AISSMS

COLLEGE OF ENGINEERING

ज्ञानम् सकलजनहिताय
Accredited by NAAC with "A+" Grade



Department of Mechanical Engineering

Faculty Profile

Prof.(Dr) D Y Dhande

PhD (Mechanical Engineering)

Associate Professor

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

🔗 <https://www.linkedin.com/in/dinesh-dhande-93b335b5/>

🔗 https://www.researchgate.net/profile/Dinesh_Dhande?ev=hdr_xprf



Research Areas / Areas of Interest

CFD, Tribology, CFD in bearings, FEM

Personal Details

Date of Birth : 10 / 09 / 1976

Domicile: Maharashtra

Gender : Male

Blood Group: AB+ve

Contact Details: B502, Vardhaman Heights, S.No.66/2, Near Chhatrapati
Chowk, Rahatani, Pune – 411017

Academic Background

S. NO.	Qualification	Specialization	University	Class/Grade	Year of Passing
1	Ph.D.	Mechanical Engineering	Pune	--	Jan 2018
2	M.E.	Mechanical – Design Engg.	Pune	I st	May 2004
3	B.E.	Mechanical Engineering	Mumbai	I st	May 1998

Work Experience

S. No.	Type of Experience	Years	Months
1	Teaching	19	11
2	Research	00	00
3	Industry	1	8
4.	Others	--	--
Total		21	7

Subjects / Courses Taught

S. No.	Subject	UG/PG	Class (FE/SE/TE/BE/ME)	No of times Subject Taught
1	Design of Machine Elements - II	UG	TE (Mechanical)	03
2	Applied Computer Aided Engineering	UG	TE (Mechanical SW)	04
3	Research Methodology	PG	FYME (Mechanical)	06
4	Elective III	PG	SYME (Mechanical)	06
5	Finite Element Analysis	PG	SYME (Mechanical –	03

			Design)	
6	Noise, Vibration Harshness	PG	SY(Mechanical – Automotive)	02
7.	Computer Aided Machine Drawing	UG	SE (Mechanical)	01

Research Publications

	National	International	State	SCI/ Scopus Indexed	UGC Approved
Journals	01	06	01	06	--
Conferences	01	07	01	03	--

Publication Details (Journals)

S. No	Document Details	Authors	Year	Source Details	ISBN/ ISSN	Publisher
1.	Implementation of CFD–FSI Technique Coupled with Response Surface Optimization method for Analysis of Three-Lobe Hydrodynamic Journal Bearing	Dhande D.Y. Pande D.W. Lanjewar G.H.	2019	Journal of The Institution of Engineers (India): Series C,100, 955–966	Print ISSN :2250-0545 Online ISSN: 2250-0553	Springer
2.	Study of aerodynamic drag of sports	Bauskar, M.P., Dhande, D.Y., Vadgeri,	2019	Materials Today: Proceedings,	ISSN 2214-7853	Elsevier

	utility vehicle by experimental and numerical method	S., Patil, S.R.		Volume 16, Part 2, Pages 750-757		
3.	Numerical analysis of three lobe hydrodynamic journal bearing using CFD–FSI technique based on response surface evaluation	Dhande D.Y. Pande D.W. Lanjewar G.H.	2018	Journal of the Brazilian Society of Mechanical Sciences and Engineering, 40, 393	Print ISSN: 1678-5878 Online ISSN: 1806-369	Springer
4.	Multiphase flow analysis of hydrodynamic journal bearing using CFD coupled Fluid Structure Interaction considering cavitation	Dhande D.Y. Pande, D.W.	2018	Journal of King Saud University - Engineering Sciences, Volume 30, Issue 4, Pages 345-354	ISSN: 1018-3639	Elsevier
5.	A two-way FSI analysis of multiphase flow in hydrodynamic	Dhande D.Y. Pande, D.W.	2017	Journal of the Brazilian Society of Mechanical Sciences and	Print ISSN: 1678-5878 Online ISSN: 1806-	Springer

	journal bearing with cavitation			Engineering, 39, pages3399–3412	369	
6.	Numerical analysis of hydrodynamic journal bearing lubrication using computational fluid dynamics and fluid structure interaction approach	Dhande D.Y. Pande, D.W.	2016	International Journal of Vehicle Structures and Systems, Vol 8, No 4 (2016)	Print ISSN: 0975-3060; Online ISSN: 0975-3540	MAFTREE

Publication Details (Conferences)

S. No	Document Details	Authors	Year	Conference Details	Organised by
1.	Experimental analysis of Hydrodynamic Journal Bearing	Mahesh Nigade, Dr S B Zope, Dr. H.V.Vankudre and Dr D Y Dhande	2020	National Conference on Technical advancements for social upliftment (VNC2020-TASU)	Vidyavardhini College of Engineering & Technology, Vasai
2.	Design and development of A multiple control enabled vaccum	Vinaya Salunkhe, Yadyesh Kulkarni,	2020	Internatinal Conference on Mechanical Engineering for	AISSMS College of Engineering & BCUD, SPPU, Pune

	cleaning and wiping robot	Dhananjay Kudche, Shubham Badhe and Dr D Y Dhande		sustainable Development (ICMESD2020)	
3.	Effect of Free Stream Turbulence on Aerodynamic Performance of Wind Turbine Airfoil NACA 4415	Nazaruddin Sinaga, D Y Dhande, Syaiful Syaiful, Bambang Yunianto	2020	International Conference on Mechanical Engineering For sustainable Development 2020	AISSMS College of Engineering & SPPU, Pune
4.	Blade Number Effects on the Performance of INSEAN E779A Marine Propeller in Cavitating Flow	Nazaruddin Sinaga, D. Y. Dhande and Hizkia Lie Kusnadi	2020	International Conference on Mechanical Engineering For sustainable Development 2020	AISSMS College of Engineering & SPPU, Pune
5.	Numerical analysis of multiphase flow in hydrodynamic journal bearing using CFD coupled Fluid Structure interaction with cavitation		2017	International Conference on Automatic Control and Dynamic Optimization Techniques, ICACDOT 2016,	International Institute of Information Technology, Pune & IEEE, Pune
6.	CFD analysis of		.	International	International

	carbon fiber reinforced polytetrafluoroethylene (PTFE) hydrodynamic journal bearing using optimization technique		2017	Conference on Automatic Control and Dynamic Optimization Techniques, ICACDOT 2016	Institute of Information Technology, Pune & IEEE, Pune
7.	Experimental and CFD performance analysis of hydrodynamic journal bearing using Jatropha blended Copper-Oxide nanoparticle as lubricant		2017	International Conference on Automatic Control and Dynamic Optimization Techniques, ICACDOT 2016	International Institute of Information Technology, Pune & IEEE, Pune
8.	Numerical Analysis of Hydrodynamic Journal Bearing Lubrication using computational Fluid dynamics and Fluid structure approach		2016	International Conference on Mechanical Engineering Design (ICMED 2016)	SSN College of Engineering, Chennai, TN, India
9.	Parametric Modelling & FEA analysis of flextural bearing		2015	Recent Advancements in Mechanical Engineering 2016	G H Rasoni College of Engineering & Managment Wagholi, Pune
10	Numerical Analysis of Hydrodynamic Journal		2015	Innovative Trends in	Institution of Engineers(I),

	Bearing Lubrication using Fluid structure approach			Engineering	Pune Local Chapter
11	Determination of Abrasive wear of PTFE using pin-on-disk		2009	National Conference on Advances in Mechanical Engineering-2009	Manipal University, Manipal, Karnataka, India

PhD / ME / BE Student Guided for Project

Level	Ph.D.	M.E. (PG)	B.E. (UG)
No. of Student guided	-	10	> 50

Professional Memberships

Professional Body	Level (National/ International)	Type (Fellow/Life/Annual)	Membership No.
Tribology Society of India	National	Life	LM5783

Patents / IPR Filed / Granted

S. No	Investigator Details	Title	Year	Status (Filed/Granted)	Details
1	1. Prof D Y Dhande and 2. Tushar P Vithalkar	System and Method for increasing compression ratio of SI Engine	2015	Filed	Application No: 2589/MUM/2015

2.	1. Dr. D Y Dhande and 2. Kiran Dahe	Production of pomegranate ethanol and examine performance of its blends on SI engines performance and emission characteristics	2018	Provisionally Filed	Application No: TEMP/E-1/30707/2018-MUM
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Books Published

S.No	Title	Name of the Publisher	ISBN/ISSN Number
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Research Grants Received

S. No	Program	Duration	Funding Agency	Grant Amount
1.	Research Proposal	2009-11	BCUD, SPPU, Pune	INR1.5 Lacs

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

S. No	Title	Type	Duration	Level (State/National/International)	Sponsoring Agency
01	International Conference on Mechanical Engineering for sustainable Development (ICMESD2020)	Conference	17-18 February 2020	International	SPPU, Pune
02	Industrial Tribology	Workshop	4-5 October 2015	State	TSI

03	MECHPGCON2018	Confer ence	13-14 June 2018	University	BoS, SPPU Pune
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Contribution as Resource Person

S. No.	Place/ Organization	Topic	Level(National/Int/ State/Regional)	Date

Details of Workshop / STTP / FDP / Conferences Attended

S. N	Title	Type	Duration	Organizer	Sponsoring Agency
1.	Tribology and Sustainability	Internatio nal STTP	August, 24-28, 2020	SRMIST, Tamilnadu	SRM University
2.	Recent Advances In Tribology And Surface Engineering	STTP	August 17- 22, 2020	SAINTGITS College Of Engineering, Kottayam, Kerala	AICTE
3.	Recent Research Trends in Tribology	Webinar Series	August3- 7,2020	GMIT, Guwahati	Assam Science and Technological University (TEQIP III)
4.	12th Summer School of Tribology	Training Program	July, 21-25	Tribology Society of India	IOCL, Faridabad and TSI
5.	Futuristic Technologies in Mechanical Industries	FDP	June 5-9, 2020	DYPIMER, Pune	ISTE and IWS
6.	Applications of Finite Element Analysis	FDP	June 13- 17, 2020	Govt College of Engg, Karad	AICTE (TEQIP-III)

	(FEA) and Computational Dynamics (CFD) using ANSYS			& Rajikiya Engg College, Azamgarh	
7.	Advances in Tribology	STTP	4-9 November 2019	AISSMS College of Engg, Pune	AICTE
8.	Fundamentals of Tribology	QIP STTP	7-11 October 2019	IISc, Bengluru	AICTE
9	Vision-Mission-PEO-PSO-PO-CO: Framing, Mapping, Assessment and Attainment	FDP	10-15 June 2019	AISSMS College of Engg, Pune	ISTE
10	Advances in Fault Dignosis of Rotating Machines and Fluid Film Bearings	TE QIP	10-14 June 2013	VJTI, Mumbai	AICTE
11	Gear Tribology	QIP STTP	1-5 April 2008	IIT, Bombay	IIT Bombay

Major Professional Responsibilities Handled

S. No.	Role and Responsibilities
1.	Department NAAC coordinator
2.	NBA criteria 5, Incharge
3.	Assistant CAP Director, ME CAP , Nov2019
4.	Chairman, Applied Computer Aided Eninering for May2019 Examinations, TE (Mech.SW)

5.	Chairman, Project Stage I and Seminar III for Nov.2018 and May 2019 of ME(Mechanical –CAD,CAM Automation)
6.	Chairman, Industrial Tribology & Maintenance for Nov.2015 and 2016 Examination of ME (Mechanical- Automotive)
7.	Center incharge for GATE Examinations 2009,10,11,12.
8.	Presiding officer for JEE (Main) and JEE (Advanced) for 2013, 2014 and 2015
9.	PG Co-ordinator (Automotive Engineering)
10.	Member, R & D Cell
11.	Development of Computer Labs for UG as well as PG

Awards Received

S. No.	Awards
1.	PG recognition for ME(Mechanical) by SPPU vide its letter no. BUTR/Engineering/128/211 dated 24/03/2017
2.	Recognition of Excellence by AISSM Society, Pune
3.	Certificate and medal by Jalgaon district Govt.servents Co-OP society, Jalgaon on completion of M.E.
4.	Certificate and medal by Jalgaon district Govt.servents Co-OP society, Jalgaon on completion of PhD

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

Dr D Y Dhande

(Name with Signature)