



AISSMS

COLLEGE OF ENGINEERING

ज्ञानम् सकलजनहिताय

An Autonomous Institute Affiliated with
Savitribai Phule Pune University

Accredited by NAAC with "A+" Grade | NBA - 7 UG Programmes



Department of Engineering Sciences and Humanities (DESH)

Faculty Profile

Mr. Sumant Shesherao Patil

DME, BE-Mech, M.E (Design Engineering), Ph.D
(Pursuing)

Assistant Professor

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

🌐 <https://www.linkedin.com/in/sumant-patil-21b275146>



Research Areas / Areas of Interest

Design & Optimization of CAPP, Feature Extraction, Feature Based Modeling, Python, CAD/CAM Manufacturing, etc.

Personal Details

Date of Birth : 12 / 03 / 1992

Domicile: Maharashtra

Gender : Male

Blood Group: B+ve

Contact Details: S.No.12/2, C2/306, Gagan Lawish CHS, Behind Dharmavat
Petrol Pump, Pisoli, Pune – 411060

Academic Background

S. NO.	Qualification	Specialization	University	Class/Grade	Year of Passing
1	Ph.D-Mechanical (Pursuing)	Mechanical Engineering	S.P.P.U		
2	M.E.	Mechanical – Design Engg.	S.P.P.U	Distinction	Oct 2016
3	B.E.	Mechanical Engineering	S.P.P.U	Distinction	May 2014
4	D.M.E	Mechanical Engineering	MSBTE	Distinction	May 2010

Work Experience

S. No.	Type of Experience	Years	Months
1	Teaching	10	03
2	Research	04	00
3	Industry	01	00
4.	Others	--	--
Total		15	00

Subjects / Courses Taught

S. No.	Subject	UG/PG	Class (FE/SE/TE/BE/ME)	No of times Subject Taught
1	Engineering Graphics (2015 PAT., 2024 PAT.)	UG	FE	02
2	Basic Mechanical Engineering (2015 PAT.)	UG	FE	02
3	Systems in Mechanical Engineering (2019 PAT.)	UG	FE	04

4.	Engineering Graphics (2019 PAT.)	UG	FE	04
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Research Publications

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

Publication Details (Journals)

S. No	Document Details	Authors	Year	Source Details	ISBN/ ISSN	Publisher
1.	Finite Element Analysis of Horizontal Tube Sheet Filters: A Review	Mr. Sumant S. Patil	2017	IJSART	ISSN 2395- 1052	Online
2.	Optimization of Shock Absorber Parameters by Using DOE and Validation by MATLAB Software	Mr. Sumant S. Patil	2017	International Advanced Research Journal in Science, Engineering and Technology	ISSN 2393- 8021	Online
3.	Design and Transmissibility Investigation of Shock Absorber Test Rig	Mr. Sumant S. Patil	2017	IJSART	ISSN 2395- 1052	Online

4.	Finite Element Analysis of Horizontal Tube Sheet Filters	Mr. Sumant S. Patil	2017	Advances of Production Engineering and System Technology (Mechanical Engineering)	-	Open Journal System (OJS)
5.	Transmissibility investigation of shock absorber of Honda-Splendor/Shine two wheeler	Mr. Sumant S. Patil	2018	IJSART	ISSN 2395-1052	Online
6.	Experimental Transmissibility Investigation of Shock Absorber and Comparison with MATLAB Results for Two-Wheeler	Mr. Sumant S. Patil	2019	International Research Journal of Engineering and Technology (IRJET)	ISSN 2395-0056	Online
7.	CFD analysis of diffuser augmented wind turbine	Mr. Sumant S. Patil, Sagar gade, S.S Khasbage	2019	International Journal of Advance Research, Ideas and Innovations in Technology	ISSN: 2454-132X	Online

8.	Function and Behaviour analysis of a Nanoparticle based bio-Lubricant used in hydrodynamic Bush Bearing	Mr. Sumant S. Patil, S.S Khasbage S.T Gade	2019	Journal of Applied Science and Computations (JASC) (UGC Approved Journal)	ISSN :1076-5131	Online
9	Kinematic And Dynamic Analysis Of Hatch Quick Opening/Closing Mechanism For Canister	Rushikesh Thul, Shubham Mohol, Dhairyashe El Mohite, Pranav Langhi, Prof. Sumant Patil, Prasad Shivdas	2021	International Journal of Creative Research Thoughts (IJCRT)	ISSN: 2320-2882	Online
10	Use of MATLAB Software for Optimization of Shock Absorber Parameters	Sumant S Patil, Rutuja Deshmukh, Amol Kokare	2021	International Advanced Research Journal In Science, Engineering And Technology	ISSN 2393-8021	Online
11	Six Sigma Tools and Shainin DOE Techniques	Prof S. S. Patil, Kartik Aher, Mrunal Bondre, Aditya Kulkarni, Sanket Bagad	2022	International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)	ISSN (Online) 2581-9429 Impact Factor: 6.252	Online

12	Design and Development of Canister For Missile System	Sumant Patil, Rutuja Deshmukh	2022	International Journal of Creative Research Thoughts (IJCRT)	ISSN (Online) 2320-2882	Online
13	Feature Extraction and CNC Code Generation for Prismatic Parts	Sumant S. Patil, Shitalkumar A. Rawandale, Kishor B. Kale, Ravi Kumar Gupta	2025	Journal of Mines, Metals & Fuels (JMMF)	0022-2755	Online

Publication Details (Conferences)

S. No	Document Details	Authors	Year	Conference Details	ISBN	Organized by
1	Finite Element Analysis of Horizontal Tube Sheet Filters	Mr. Sumant S. Patil	2017	MECHPGCON		D Y Patil COET Pune
2	Feature Extraction and CNC Code Generation for Prismatic Parts	Sumant S. Patil, Dr.K. B. Kale, Dr.Ravi Kumar Gupta	2022	Recent Advances in Modeling and Simulation Techniques in Engineering and Sciences (RAMSTES - 2022)		Manipal University Jaipur.
3	Automatic feature extraction method for prismatic part through Principal Component Analysis	Sumant S. Patil, Shitalkumar A. Rawandale, Kishor B. Kale, Ravi Kumar Gupta, Rutuja S. Patil	2024	International Conference of Innovation in Mechanical & Civil Engineering 2024		PCCOE Pune.

PhD / ME / BE Student Guided for Project

Level	Ph.D.	M.E. (PG)	B.E. (UG)
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No. of Student guided	-	-	16
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Professional Memberships

Professional Body	Level (National/ International)	Type (Fellow/Life/Annual)	Membership No.
The Indian Society for technical Education (ISTE)	National	Life	LM134181
Solar Energy Society of India (SESI)	International	Life	LM/2603/2021

Patents / IPR Filed / Granted

S. No	Investigator Details	Title	Year	Status (Filed/Granted)	Details
1	Mr. Sumant Patil	A system for developing a modified rearview mirror assembly	2023	Granted	The President of the German Patent and Trademark Office

Books Published

S. No	Title	Name of the Publisher	ISBN/ISSN Number
1	Innovation in Mechanical Engineering : Emerging Technologies and Trends	VINSA Publications (An Imprint of Black Horse Publish)	978-81-974283-5-7

Research Grants Received

5

S. No	Program	Duration	Funding Agency	Grant Amount
-	-	-	-	-

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

S. No	Title	Type	Duration	Level (State/National/International)	Sponsoring Agency
1.	SME syllabus implementation workshop	Workshop	1 Day	National	SPPU
2.	Half Day Faculty Guidance seminar on 'PROJECT BASED LEARNING',	Seminar	Half day	State	AISSMS COE
3.	Project Based Learning Exhibition 2022	Exhibition	1 Day	College	AISSMS COE

4.	Benefits of The Global Scholarship	Webinar	1 Day	National	AISSMS COE
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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.	Research Methodology	Work shop	2 Days	National	SPPU

2.	Advances in Welding Technology	Seminar	2 Days	State	SPPU
3.	Advanced optimization tools and techniques for Researchers and Engineers	STTP	02 weeks	National	Solapur university
4.	Recent Trends in Solar system and its scope in India	Seminar	2 Days	State	SPPU
5.	Promoting Quality Culture in Technical Institutions	FDP	01 Week	International	SPPU
6.	Training on Python Program	FDP	01 Week	International	Bombay University
7.	FDP ON SCILAB	FDP	01 Week	International	RMDCOE
8.	FDP on R-Language	FDP	01 Week	National	AISSMS COE
9.	ICT tools for effective learning	FDP	01 Week	National	SRTMUN
10	OBE-A Step Towards Excellence	FDP	01 Week	National	GCE Karad
11	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 VI (Governance, Leadership & Management) coordinator (Dept. Level)
2.	Project Based Learning subject Dept. Coordinator
3.	NBA Criteria VIII (FE Academics-50 Marks) Co-coordinator (Dept. Level)

4.	FE Dept. Project Coordinator
5.	Admission Coordinator at Institute Level
6.	SQUAD during FE SPPU End Sem Exam August 2022
7.	CAP Officer for SPPU Dec 2024 exam
8.	Guardian Faculty Member (GFM) and Mentor
9.	Active Mentor for Smart India Hackathon (SIH) 2024 Software Grand Finale with topic "Development of a Geolocation-Based Attendance Tracking Mobile Application", Provided by GAIL, Ministry of Petroleum and Natural Gas at the Nodal center NIT Srinagar (J&K) from 11-12 th December 2024.

Awards Received

S. No.	Awards
1	Received Elite+ Silver in NPTEL Exam for course "Manufacturing Process Technology" in Jan-Apr 2019
2	Received Elite+ Silver in NPTEL Exam for course "Fundamentals of manufacturing processes" in Jul-Oct 2019
3	Received Elite+ Silver in NPTEL Exam for course "Engineering Drawing and Computer Graphics" in Sep-Dec 2020

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



Mr.Sumant S. Patil

(Name with Signature)