Dr. Prashant W. Deshmukh

1. Personal Information

- Name: Dr. Prashant W. Deshmukh
- **Position**: Associate Professor, Professor
- **Department**: Production Engineering
- Contact Information: pwdeshmukh@sggs.ac.in, 9850601921 / 8149893221

2. Educational Background

- B.E. First Class Amravati University, Amravati (1998).
- M.E. First Class with Distinction (Thermal Engineering), S.P.P.U., Pune (2007).
- Ph.D.in Mechanical Engineering from Indian Institute of Technology Bombay (IITB), Mumbai-400076 (2016).

3. Research Interests

- Areas of Expertise: Heat Transfer, Computational Fluid Dynamics, Solar Energy.
- Ongoing Projects: Heat transfer enhancement of twisted tube retrofitted with twist tape insert.

4. Teaching Experience

- Courses Taught: Undergraduate level: Basic Mechanical Engineering, Engineering
 Drawing, Fluid Mechanics, Heat Transfer, Finite Element Method, Computational
 Fluid Dynamics, Estimation and Costing, Robotics and Automation, the strength of
 Materials, Fluid Machinery, System Engineering.
- Courses Taught: Postgraduate level: Fluid Dynamics, Mathematical Methods in Engineering, Computational Fluid Dynamics, Advanced Heat Transfer, Advanced Thermodynamics, Optimisation Techniques, Microfluidics
- Course Development: Finite Element Method, Computational Fluid Dynamics.

5. Publications and Presentations

Google Scholar link - https://scholar.google.com/citations?user=MiXnAOAAAAA]

- Books: Authored or edited books.
- Journal Articles: 20

• Conference Papers: 12

 Editorial Work: Editor of ICAME-2022: 2nd International Conference & Exposition on Advances in Mechanical Engineering at COEP Technological University, Pune https://www.sciencedirect.com/journal/materials-todayproceedings/vol/72/part/P3?page-size=100&page=3

Book Chapters: 01

• Editorial Work: Reviewer for 4 SCI-indexed journals.

6. Awards and Honors

- **Grants**: A research project "Development of Annular Heat Exchanger based on Field Synergy Principle" under **BCUD project scheme** of Savitribai Phule Pune University (SPPU) during the year 2009-2012.
- Awards: Forbes Marshall Runner up the award for UG project "Heat transfer enhancement in an evaporator tube using curved delta wing vortex generators" by Hrishikesh Shirsat, Michael Susngi, Masud Quraishi, Anuradha Bhoi for B.Tech final year students.

7. Professional Experience

• Administrative Role: Controller of Examinations (COE)

8. Supervision and Mentoring

• Number of PG students guided (completed):

Sr. No.	Name of Student	Dissertation Title	Year
1	Mr. Akshay	Development of spines for passive cooling of	2023
	Bhalerao	lithium ion battery for electric vehicle applications.	
2	Mr. Akshay	Design and Optimisation of Cold Plate for Prismatic	2023
	Kamble	Battery Cell for Electric Vehicle Applications.	
3	Ms. Sneha Patil	Enhancement of heat transfer of Nickel Manganese	2023
		Cobalt (NMC) Lithium-ion battery packs using	
		Herringbone Fins for electric mobility applications.	
4	Mr. Rohit Gurav	Thermohydraulic performance enhancement of	2022
		flow through circular geometries using curved	
		turbulators.	
5	Mr. Ashwinikumar	Development of electric vehicle with permanent	2022
		magnet synchronous motor and its analysis with	
		drive cycles in MATLAB/Simulink.	

6	Mr. Prakash	Heat transfer performance improvement using for	2022
	Batule	flow through circular pipes.	
7	Mr.Swapnil Kadlag	Model development to establish trade-offs among	2021
		electric motor characteristics and electromagnetic	
		noise.	
8	Mr.Rahul Chaudhar	Local & Average Heat Transfer and Friction Factor	2021
		Characteristics of a Flow through a Helical Wire	
		Coil for Turbulent Flow Conditions.	
9	Mr.Dulesh	Heat Transfer and Friction Factor Characteristics of	2021
	Pathode	Turbulent Flow Through Conical Heat Exchanger.	
10	Mr. Manoj Rathod	Experimental investigation of effect of hydrophobic	2020
		coating on drag forces over a stationery circular	
		cylinder under laminar flow conditions.	

9. Professional Memberships

- Life membership International Society for Research and Development (ISRD)
- SAE India
- Indian Society for Heat and Mass Transfer ISHMT 1377

10. Miscellaneous

• Languages: English, Hindi, Marathi.

• **Skills**: Auto CAD, Ansys-Fluent.

Personal Interests:

Conducting research,

Technical consultancy services,

Review of research articles for peers.