



## SWAPNIL CHITNIS

Branch – Mechanical Engineering  
 Malaviya National Institute of Technology Jaipur (MNITJ)  
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DOB – 11<sup>th</sup> March 1989  
 M.E: Thermal Engg.  
 Gender: Male  
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### EDUCATIONAL DETAILS

Examination	University/Board	Institute	Passing Year	CGPA / %
PhD (Mechanical)	NIT Jaipur (MNIT)	NIT Jaipur (MNIT)	-	Pursuing*
M.E (Heat Power)	Pune University	DPCOE Pune	2014	7.27
B.E (Mechanical)	Pune University	COE Malegaon, Baramati	2010	65.07
HSC (Science)	Pune University	NMV Pune	2006	67.50
SSC	Pune University	SRDHK Kendur	2004	82.26

### WORK EXPERIENCE – 8.5 years (2.5 years Industrial + 6 years Teaching)

<b>ST. JOHN COLLEGE OF ENGINEERING AND MANAGEMENT</b>	[June.2025 – Till date]
➤ Assistant professor, Department of Mechanical Engg.	
<b>JSPM NARHE TECHNICAL CAMPUS, PUNE</b>	[July.2015 – July.2019]
➤ Assistant professor, Department of Mechanical Engg.	
<b>DHOLE PATIL COLLEGE OF ENGINEERING, PUNE</b>	[June.2014 – July.2015]
➤ Assistant professor, Department of Mechanical Engg.	
<b>POLYTECHNIC COLLEGE, DAHIWADI</b>	[June.2013 – May.2014]
➤ Lecturer, Department of Mechanical Engg.	
<b>PIAGGIO VEHICLES PVT LTD. BARAMATI</b>	[July.2010 – Jan.2013]
➤ Engineer (Engine Testing & Quality Control), Incoming Quality Inspection, Participation in PPAP & MSA	

### AREA OF INTEREST

- Engineering Graphics
- Thermodynamics and Heat transfer
- Refrigeration & HVAC
- Automobile and I.C engines
- Renewable Energy Sources

### RESEARCH PUBLICATIONS & KEY PROJECTS

#### Peer reviewer for:

- **SAGE** Publication, Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering. - **SCI indexed**
- **Elsevier** - Energy Conversion and Management. - **SCIE indexed**

#### Paper Publications:

- Deployment of vapour chambers for electronic heat dissipation: state-of-the-art”. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mech. Engg. Science. 2022 – **SCI indexed**
- Micromixing optimization of non-newtonian fluids with heterogeneous zeta potential. Engineering Research Express, IOP Publishing Ltd. 2023 – **ESCI, SCOPUS indexed**
- “Lab-scale Manufacturing and Testing of Hermetic and Flexible Vapour Chambers for cost-effective Experimentation”. IHMTC2023, IIT Patna. Dec 14-17 2023.
- “Development of negative gauge pressure demountable Gasketed Vapour Chamber”. FMFP2023, IIT Jodhpur. Dec 20-22 2023.
- Effect of thermo-physical parameters on the performance of Vapour chamber heat spreader. MATHED-22, NIT Hamirpur, Feb 15-17 2023.
- Comparative assessment of phase-change-materials for electronic heat dissipation. MATHED-22, NIT Hamirpur, Feb 15-17 2023.

#### PhD Project: Fabrication and performance assessment of Vapour chamber for electronics cooling

- Fabrication of vapour chamber heat spreader for mitigating hotspot problem in electronics cooling.
- Enhancement of heat transfer inside vapour chamber using hybrid wick (Groove + Screen Mesh wick).

#### M.Tech Project: Experimental investigation of heat transfer enhancement from $\Delta$ winglet vortex generators

- Analysis of heat transfer inside square sectioned test rig.
- Study the effect of heat transfer enhancement using pin fins and delta winglet vortex generators.

#### **B.Tech Project: Design & Manufacturing of sugar cane feeding Table for Bullock carts**

- Special sugar cane feeding table was designed and manufactured for bullock carts. Gear drive mechanism having gears and chain pulley mechanism were developed. Sponsored by, Malegaon S.S.K. Limited.

#### **TECHNICAL SKILLS**

- Technical Software: Solid Edge, Creo (ProE), Ansys Fluent, Hyper Mesh, AutoCAD, Inkscape, Origin
- MS Office

#### **EXTRA CURRICULAR-ACTIVITIES**

- Awarded for participation in “Improvement project as a part of Quality improvement Program in **Piaggio Vehicles Pvt Ltd.**
- Paper Setter and Examiner for “Auxiliary Engine Systems” Elective II BE Automobile.
- Participated in “Syllabus formulation of Energy Audit & Management, BE Mechanical (2015 Course) organised by JSPM NTC in association with BOS, SPPU.
- Workshops attended: - “Syllabus implementation of BE Automobile Engg” (2012 course, IOK College, Pune) and TE Automobile Engg (2012 course, DPCOE, Pune).
- Participated in One-week FDP on “Curriculum Design & Related aspects of NBA” at JSPM Hadapsar.
- Participated in Two days FDP on “Finite Element Analysis & CFD using ANSYS” at JSPM Narhe.
- Coordinated National level workshop on “Recent Developments in New & Renewable energy sources” held at JSPM Narhe.
- Participated in state-level Poster Presentation.
- Participated in college “Robo race” competition.
- Participated in state-level Counter strike (C.S.) gaming competition.

#### **HOBBIES**

- Cricket, Badminton, Blogging.

- **Swapnil Chitnis**