

Swapnil Narkhede, Ph.D (Pursuing)

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Work Experience

- 2021 – 2022 **Senior Research Fellow**, Symbiosis International (Deemed University), Pune, Maharashtra.
- 2018 – 2021 **Junior Research Fellow**, Symbiosis International (Deemed University), Pune, Maharashtra.
- 2017 – 2018 **Assistant Professor**, Department of Mechanical Engineering, MSS's college of Engineering, Jalna.
Subjects Taught: Heat transfer, Refrigeration & Air-conditioning, and CAD-CAM.
- 2013 – 2013 **Engineering Trainee**, Twin Engineers Pvt.Ltd, Bhosari, Pune, Maharashtra. (Jan-2013 – June-2013)
Responsibilities handled: Conducting tests on Special Purpose Machines such as brake oil filling machine, potting machine, performing data analysis.
- 2011 – 2011 **Engineering Trainee**, Twin Engineers Pvt.Ltd, Bhosari, Pune, Maharashtra. (July-2011 – Dec-2011)
Responsibilities handled: Drafted 2D and 3D drawing, conducted root-cause analysis of component failure, Contributed to vendor development process

Educational Qualifications

- 2018 – 2022 **Ph.D(Pursuing)**, Symbiosis International (Deemed University), Pune, Maharashtra.
Thesis title: *Design, Development, and Analysis of Hollow Compact Micro-lattice heat exchangers.*
- 2014 – 2016 **M.Tech. (Computer Aided Design and Manufacturing)**, Symbiosis Institute of Technology, Pune, Maharashtra.
Dissertation title: *CFD Analysis of Shell and Finned Tube Heat Exchanger.*
- 2010 – 2013 **B.E. (Mechanical-Sandwich Engineering)**, A.I.S.S.M.S's College of Engineering, Pune, Maharashtra.
- 2007 – 2008 **Higher Secondary Certificate**, Maharashtra State Board, Maharashtra.
- 2006 – 2007 **Secondary School Certificate**, Maharashtra State Board, Maharashtra.

Research Publications

Journal Articles

- 1 **Narkhede, S., & Sur, A.** (2021). Performance prediction of hollow micro-lattice cross-flow heat exchanger using a numerical approach. *International Journal of Ambient Energy*, 1–8.

- 2 Sur, A., Pandya, S., Sah, R. P., Kotecha, K., & **Narkhede, S.** (2021). Influence of bed temperature on performance of silica gel/methanol adsorption refrigeration system at adsorption equilibrium. *Particulate Science and Technology*, 39(5), 624–631.
- 3 **Narkhede, S.**, Sur, A., & Darvekar, S. (2019). Applications, manufacturing and thermal characteristics of micro-lattice structures: Current state of the art. *Engineering Journal*, 23(6), 419–431.

Conference Proceedings-Accepted for publication

- 1 Sur, A., **Narkhede, S.**, & Kothari, G. Development of an integrated pcm-fin-based battery thermal management system for two and three-wheeler electric vehicles. In: *Thermal analysis and energy systems*. Heat Pump Research Institute, Coimbatore, 2021.
- 2 Sur, A., **Narkhede, S.**, Kothari, G., & Sapre, M. Increasing heat dissipation of an li-ion battery electrode by using lattice structures in cells. In: *International conference on progressive research in industrial and mechanical engineering*. NIT, Patna, 2021.
- 3 Sur, A., **Narkhede, S.**, Netke, A., & Palheriya, H. Design and development of polymer heat sink for battery thermal management system in electric vehicles. In: *International conference on progressive research in industrial and mechanical engineering*. NIT, Patna, 2021.

Research Grants

My Ph.D. work is funded by Symbiosis International (Deemed University), Pune under Major Projects Scheme (SIU/SCRI/MJRP-Approval/2019/1561).

Skills

Technical Expertise	Construction and maintainance of complex experimental setups, Design and setup of complex laboratory experiments
Technical Languages	C
3D Modelling	Solidworks, Catia, Pro-E, Auto-CAD
Numerical Simulations	ANSYS-Fluent, MATLAB
Miscellaneous	Outcome Oriented Academic research, Teaching, Training, Proficient in purchase process of SIU and vendor negotiation

Achievements

- 2022  **Invited for collaborative research on Ph.D work at Center for Advanced Materials, Qatar University,**

Personal Details

Date of Birth	08 th Jan 1991	Sex	Male
Marital Status	Unmarried	Height	178 cm
Father Name	Mr. Ashok Narkhede	Mother Name	Mrs. Sunita Narkhede
Domiciled	Maharashtra, India	Nationality	Indian

Declaration

I hereby declare that above said information is true to the best of my knowledge.