

CURRICULUM VITAE

DR. JAGDISH BABUSING PAWAR

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At post. Shendona Tq. Manora Dist. Washim,
Maharashtra, India - 444404

CAREER OBJECTIVE

I am looking ahead to work in an environment where I can grow personally and technically and get opportunities to hone my acquired skills and get acquainted with new concepts.

AREA OF INTEREST

Renewable energy (RE), Solar thermal energy, Concentrated solar thermal (CST) Technologies and its applications, Thermal energy storage (TES), Solar receiver, Solar desalination, Heat transfer fluid (HTF), Nanofluid (Nf), Material Characterizations.

EDUCATION

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|----------------|---|------------|
| PhD | SRTM University, Nanded (MS) India, Mechanical Engineering
Thesis title: "Design and performance analysis of solar Scheffler system for jaggery making"
Advisor: Dr. Vinod B Tungikar, SGGSI&T Nanded (MS) India. | April 2023 |
| MTech | Mumbai University (MS) India, Production Engineering
Project title: "Deep Hole Drilling (gun-drilling) Defect is Optimized Using Design of Experiment (DOE) Approach".
Advisor: Dr. D.N. Raut, V.J.T.I college Mumbai, India. | July 2019 |
| BE | Dr.BAM University, Aurangabad (MS) India, Mechanical Engineering
Project title: Electricity Generation by using animal power. | June 2016 |
| Diploma | MSBTE (MS) India, Mechanical Engineering
Project title: Portable drawing kit for engineering students. | June 2013 |

HONORS AND AWARDS

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| National Doctoral Fellowship (NDF)
Government of India | 2019 - 2023 |
| AICTE Post-Graduate scholarship
Government of India | 2017-2019 |

RESEARCH EXPERIENCE

Senior Research Fellow (SRF),

Shri Guru Gobind Singhji Institute of Engineering and Technology, 2021-2023
Vishnupuri, Nanded 431606, Maharashtra (India).

Description: Design a novel receiver for solar Scheffler system, Nanofluid preparation and optimization of its process parameter for higher thermal conductivity and stability.

Junior Research Fellow (JRF),

Shri Guru Gobind Singhji Institute of Engineering and Technology, 2019 - 2021
Vishnupuri, Nanded 431606, Maharashtra (India).

Description: Doing research in Concentrated solar thermal (CST) & its application, Design and evaluate the performance of solar Scheffler system for jaggery making.

TEACHING EXPERIENCE

Assistant Professor (Contractual),

August 2023- June 2024

Production Engineering Department, Shri Guru Gobind Singhji Institute of Engineering and Technology, Vishnupuri, Nanded 431606, Maharashtra (India).

Responsibilities Shouldered and Duties performed:

- ❖ Assistant to exam coordinator/ Assistant to CAP coordinator
- ❖ Active participation NBA SAR preparation (Department accredited twice)
- ❖ M.Tech Mechanical Class Coordinator
- ❖ Active participation in development of Solar thermal and Renewable energy lab.
- ❖ Solar thermal lab incharge.
- ❖ Research symposium coordinator.
- ❖ Coordinated various activities in the department such as inplant training, Industrial visit etc.

Assistant Professor (Adhoc),

August 2024- Present

Production Engineering Department

Veermata Jijabai Technological Institute (VJTI), Matunga, Mumbai-400019

PUBLICATIONS

Journal Publications

1. J. B. Pawar and V. B. Tungikar, "An experimental examination of a helically coiled conical cavity receiver with Scheffler dish concentrator in terms of energy and exergy performance," *Sustain. Energy Technol. Assessments*, vol. 52, no. PC, p. 102221, 2022.
2. J. B. Pawar and V. B. Tungikar, "Alumina – di water - based nanofluid process parameter optimization for stability," *J. Brazilian Soc. Mech. Sci. Eng.*, vol. 8, pp. 1–13, 2022.
3. J. B. Pawar, G. R. Chavhan, and M. R. Nukulwar, "Materials Today : Proceedings Experimental performance analysis of 16 m² solar Scheffler system for jaggery

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- making,” *Mater. Today Proc.*, no. xxxx, 2022.
4. Jagdish B. Pawar, Anumahi M. Jawale, Vinod B. Tungikar, “Al₂O₃/distilled Water-based Nanofluid Process Parameter Optimization for Thermal Conductivity Conf. Proc. 3101, 040001 (2024) <https://doi.org/10.1063/5.0214092>
 5. Manjusha A. Talware, Jagdish B. Pawar, L. N. Wankhade “A review on nanofluid preparation, characterization, characteristics, and applications”. AIP Conf. Proc. 3101, 020003 (2024) <https://doi.org/10.1063/5.0214214>

Journal Papers in Review

1. J. B. Pawar and V. B. Tungikar, “Process parameter optimization of Al₂O₃/distilled water-based nanofluid for higher thermal conductivity and stability using the Taguchi-Grey method,” Submitted to: ASME Journal of heat and mass transfer.

PATENT

J. B. PAWAR AND V. B. TUNGIKAR, “APPARATUS FOR CONCENTRATION AND ABSORPTION OF SOLAR ENERGY,” INDIAN PATENT, JOURNAL NO:03/2022, 21/01/2022.

PRESENTATIONS AND INVITED LECTURES

Paper Presentation, “Experimental performance analysis of 16 m² solar Scheffler system for jaggery making,” 4th International conference on advances in mechanical engineering and nanotechnology, Manipal university Jaipur, Date. Feb 18-19,2022.

Paper Presentation, “Al₂O₃/distilled Water-Based Nanofluid Process Parameter Optimization for Thermal Conductivity,” at 15th International Conference on Materials Processing and Characterization, Northumbria University at Newcastle (UK) Date. 5th -8th Sept.2023.

PROFESSIONAL TRAINING

Internship: Bosch India LTD, Nashik, Maharashtra (India) June 2018- May 2019
Project title:

1. To reduce Defect in CRI Body Wall Thickness Variation.
2. Valve Piece HTF Variation Reduction.

Training: One week training program on R&D Equipment (STUTI), SRTM university Nanded, Maharashtra (India).

Courses: Design and Analysis of Experiments, NPTEL.
Government of India.

PERSONAL DETAIL

Name: Jagdish Babusing Pawar
DOB: 09/07/1993.
Gender: Male.

Category: VJ-A

Blood Group: O+

Marital Status: Single.

Languages Known: English, Hindi, and Marathi.

Skills: Material characterization, XRD, SEM, TEM, MATLAB

Hobbies: Reading Novels, Listening Music, Traveling.

Current Address: Production engg. dept, Shri Guruji Gobind Singhji Institute of Engineering and Technology, Nanded.

Mo No: 8788018351

Email Id: pawarjb358@gmail.com

REFERENCES

Dr. Vinod B Tungikar,

[Professor at Production Engineering Department]

[SRTMU, Nanded (MS) India] (Retired)

[Shri Guru Gobind Singhji Institute of Engineering and Technology,
Vishnupuri, Nanded 431606, Maharashtra (India).]

Phone: [+91-9422870961]

Email: [vbtungikar@sggs.ac.in]

Dr. Lalit N Wankhade,

[Associate Professor at Production Engineering Department]

[SRTMU, Nanded (MS) India]

[Shri Guru Gobind Singhji Institute of Engineering and Technology,
Vishnupuri, Nanded 431606, Maharashtra (India).]

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I declare that the above information is accurate and correct to the best of my knowledge.

Date:

Place:

