

Ref.: MET/BKC/IOE/Ph.D./Mech/2026/ 1002

Date: 13/07/2026

To,
The Deputy Registrar (Academic Section),
Savitribai Phule Pune University,
Ganeshkhind,
Pune - 411 007.

Subject: Regarding submission of six monthly Progress Report from Research Centre of
Mechanical Engineering

Dear Sir,

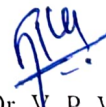
Greetings from MET's Institute of Engineering, Bhujbal Knowledge City, Nashik.

With reference to the above mentioned subject, please find the attachment regarding Progress Report of Research Centre during the period **Jan-2026 to June-2026** from the Research Centre of Mechanical Engineering, MET's Institute of Engineering, Bhujbal Knowledge City, Nashik.

This is for your kind information.

Sincerely,




Dr. V. P. Wani
Principal
Principal
MET's Institute of Engineering,
Bhujbal Knowledge City
At. Adgaon, Tal. & Dist. Nashik

Encl.:

1. Progress Report

शैक्षणिक विभाग (सहायक कक्ष)
सावित्रीबाई फुले पुणे विद्यापीठ,
(पूर्वीचे पुणे विद्यापीठ)
दिनांक 15/07/26
स्वाक्षरी. 

Adgaon, Panchavati, Nashik - 422003

Tel.: (0253) 2555826, 2303515 | Telefax : (0253) 2303203

E-mail : principal_ioe@bkc.met.edu | www.metbhujbalknowledgecity.ac.in

Name of Research Centre : MET's Institute of Engineering, Bhujbal Knowledge City, Nashik

Year of Establishment : 2014

Subject : Mechanical Engineering

No. of Associated Supervisors : 10

No. of registered Candidates : 21

Candidates awarded Ph.D. : 08

1. 28/08/2019- Harshal A. Chavan (Supervisor: Dr. V. P. Wani)

2. 28/08/2019- Shubham R. Suryawanshi (Supervisor: Dr. J. T. Pattiwar)

3. 28/04/2023- Tushar Y. Badgajar (Supervisor: Dr. V. P. Wani)

4. 22/08/2023- Raghavendra R. Barshikar (Supervisor: Dr. P. R. Baviskar)

5. 20/02/2025- Sharad K. Nirgude (Supervisor: Dr. S. D. Kalpande)

6. 28/03/2026- Nitin B. Ahire (Supervisor: Dr. D. D. Deshmukh)

7. 02/04/2026- Dinesh P. Panchve (Supervisor: Dr. S. R. Suryawanshi

Co- Supervisor: Dr. M. P. Ray)

8. 13/05/2026- Vaibhav E. Kothawade (Supervisor: Dr. V. P. Wani

Co- Supervisor: Dr. H. A. Chavan)

Progress Report Period Jan-2026 to June-2026

Progress Report/RRC/Pre-Synopsis/Viva-voce Presentations:

1. 21/01/2026: **Progress Presentations** of 18 candidates held with Research Advisory Committee
2. 21/01/2026: Following **Pre-Synopsis Presentation** held with Research Advisory Committee-
➤ Mr. Pawar Rajendra J. (Supervisors: Dr. S. R. Suryawanshi & Dr. M. P. Ray)
3. 12/02/2026: **Progress Presentations** of 03 candidates held with Research Advisory Committee
4. 28/03/2026: Following **Viva-voce** held with appointed committee by SPPU-
➤ Mr. Ahire Nitin Bapurao (Supervisor: Dr. D. D. Deshmukh)
5. 02/04/2026: Following **Viva-voce** held with appointed committee by SPPU-
➤ Mr. Panchve Dinesh P. (Supervisors: Dr. S. R. Suryawanshi & Dr. M. P. Ray)
6. 13/05/2026: Following **Viva-voce** held with appointed committee by SPPU-
➤ Mr. Kothawade Vaibhav Eknath (Supervisors: Dr. V. P. Wani & Dr. H. A. Chavan)
7. 28/05/2026: **Progress Presentation** of 01 candidates held with Research Advisory Committee

Publications:

1. Vishwas Mahadeo Palve & Gajanan Namdeorao Shelke, Theoretical and experimental investigations of fixed-focus Fresnel-lens solar collectors with different cavity receivers, *Energy Sources, Part A: Recovery, Utilization, And Environmental Effects*, 2026, Vol. 48, No. 1, 2678537
<https://doi.org/10.1080/15567036.2026.2678537>
2. Vadnere, A.P., Kalpande, S.D. Performance enhancement of AISI 5160 milling using SiO₂-based NF-MQL: a taguchi-regression approach. *International Journal on Interactive Design and Manufacturing* (2026).
3. Pagar, G.J., Shelke, G.N. Experimental and Thermo-Statistical Optimization of Tool Geometry and Process Parameters in Friction Stir Welding of AA3103 Aluminium Alloy. *J. Inst. Eng. India Ser. D* (2026). <https://doi.org/10.1007/s40033-026-01017-w>
4. Pagar, G.J., Shelke, G.N. Effects of welding parameters optimization on the tensile performance of friction stir welded AA3103 Al alloy. *J. Eng. Appl. Sci.* 73, 173 (2026).
<https://doi.org/10.1186/s44147-026-01028-0>
5. R.M. Ghogare, D.D. Deshmukh, Expanded graphite-epoxy reinforced composite phase change materials for thermal management of electric vehicle batteries: A critical review, *Journal of Energy Storage*, Volume 175, 2026, 123284, <https://doi.org/10.1016/j.est.2026.123284>.
6. Vishwas Palve , Performance Investigation of Different Receiver Cavity in a Fresnel Lens Based Solar Concentrator, 2nd International Conference on Recent Trends in Materials Science & Mechanical Engineering, St Joseph's Institute of Technology, Chennai , 9th and 10th April 2026.
7. Vishwas Palve ,An Experimental Study on Receivers Cavity Efficiency with Fresnel Lens Concentrators, 6th National Conference on Innovation in Engineering and Technology, AISSMS College of Engineering Pune, 29th-30th April 2026.
8. A P Vadnere, S D Kalpande (2026), "Multi-Criteria Decision Analysis for Optimal Nanoparticle Selection in Nano Fluid Based Milling of AISI 5160" in 3rd International Conference on Futuristic Advancements in Materials, Manufacturing and Thermal Sciences (ICFAMMT-2026), 16th-18th January 2026 at IITRAM Ahmedabad, Gujarat, India.
9. Ganesh Jagannath Pagar, Gajanan N. Shelke, Finite Element Analysis of Straight Horizontal Flat Clamps Hinged at One End Milling Fixture for Friction Stir Joining Process of Aluminium AA3103, 2nd International Conference on Advances in Thermal Systems, Materials, and Design Engineering (ATSMDE 2024), Veermata Jijabai Technological Institute (VJTI), Mumbai , 2026.

10. Nilesh Sitaram Gaikwad, Dhiraj D. Deshmukh, Influence of tungsten carbide reinforcement on the mechanical properties, fatigue life, and fracture morphology of kevlar/S2-Glass/epoxy hybrid laminates, Next Materials,12(2026)102461.

Workshop/Training/FDP:

- | | |
|---------------------------|--|
| 1. Vishwas Mahadeo Palve | “Smart Manufacturing with Industry 4.0: Robotics, AI and IoT”, AISSMS College of Engineering, Pune, Maharashtra.,16.02.2026 to 21.02.2026 |
| 2. Vishwas Mahadeo Palve | “Data Analytics using Python”Vidyavardhini's College of Engineering and Technology, Dist. Palghar, Maharashtra.,15.06.2026 to 20.06.2026 |
| 3. Vishal Chaudhari | Recent Advances in Mechanical Engineering and Technology, Adsul's Technical Campus (ATC) ,Ahilyanagar from 24 th June to 28 th June 2026 |
| 4. Amol Bharat Varandal | One-week FDP on Recent Advances in Mechanical Engineering and Technology organized by ATC Ahilyanagar from 24 th June to 28 th June 2026 |
| 5. Ravindra M. Ghogare | Hand's on training on research paper, research proposal & patent writing and filing , M. V. P. 's KBT COE Nashik, 25-27 June 2026 |
| 6. Nilesh Sitaram Gaikwad | Hand's on training on research paper, research proposal & patent writing and filing , M. V. P. 's KBT COE Nashik, 25-27 June 2026 |

NPTEL Courses:

- | | |
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| 1. Vishwas Mahadeo Palve | Assessment of Students' Performance |
| 2. Pranav Gajanan Firke | Effective Engineering Teaching in Practice |
| 3. Darshan Diliprao Kulkarni | Research Methodology |


Dr. S. R. Suryawanshi
Ph.D. Co-ordinator


Dr. S. D. Kalpande
H.O.D.


Dr. V. P. Wani
Principal

