

Institute of Engineering

Ref.: MET/BKC/IOE/Ph.D./Mech/2023/273-A

Date: 28/08/2023

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 during the period **January-2023 to June-2023** from the research centre of Mechanical Engineering, MET's Institute of Engineering, Bhujbal Knowledge City, Nashik.

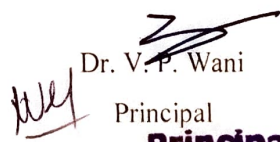
This is for your kind information.

Sincerely,



Encl.:

1. Progress Report


Dr. V. P. Wani
Principal
Principal
MET's Institute of Engineering,
Bhujbal Knowledge City
At. Adgaon, Tal. & Dist : Nashik-3



9/11/23

Institute of Engineering

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

Year of Establishment : 2014

Subject : Mechanical Engineering

No. of Associated Supervisors : 09

No. of registered Candidates : 29

Candidates awarded Ph.D. : 03

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. Badgular (Supervisor: Dr. V. P. Wani)

Progress Report Period January-2023 to June-2023

Progress Report/RRC/Synopsis Presentations:

1. **12/01/2023:** Following progress presentations held with Research Advisory Committee-

- PR-III: Mr. V. E. Kothawade (Supervisor: Dr. V. P. Wani)
- PR-II: Mr. V. E. Kothawade (Supervisor: Dr. V. P. Wani)
- PR-III: Mr. S. K. Nirgude (Supervisor: Dr. S. D. Kalpande)
- PR-II: Mr. S. K. Nirgude (Supervisor: Dr. S. D. Kalpande)
- PR-II: Mr. N. B. Ahire (Supervisor: Dr. S. N. Shelke)
- PR-II: Mr. A. B. Varandal (Supervisor: Dr. S. N. Shelke)
- PR-II: Mr. D. P. Panchve (Supervisor: Dr. M. P. Ray)
- PR-II: Mr. R. J. Pawar (Supervisor: Dr. M. P. Ray)
- PR-I: Mr. Dipak J. Chaudhari (Supervisor: Dr. G. N. Shelke)
- PR-I: Mr. Ashwin D. Patil (Supervisor: Dr. S. D. Kalpande)
- PR-I: Mr. Tushar D. Patil (Supervisor: Dr. G. N. Shelke)
- PR-I: Mr. Ganesh J. Pagar (Supervisor: Dr. L. K. Toke)
- PR-I: Mr. Vishal J. Dhore (Supervisor: Dr. L. K. Toke)
- PR-I: Mr. Amol P. Vadnere (Supervisor: Dr. S. D. Kalpande)
- PR-I: Mr. Vishal P. Chaudhari (Supervisor: Dr. S. D. Kalpande)
- PR-I: Mr. Sharad E. Bodke (Supervisor: Dr. G. N. Shelke)
- PR-I: Mr. Vishwas M. Palve (Supervisor: Dr. G. N. Shelke)
- PR-I: Mr. Kishor W. Kale (Supervisor: Dr. S. D. Kalpande)



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Progress Report/RRC/Synopsis Presentations:

2. **16/03/2023:** Following pre-synopsis presentation held with Research Advisory Committee-
 - Mr. Raghavendra R. Barshikar (Supervisor: Dr. P. R. Baviskar)
3. **28/04/2023:** Following Ph.D. viva-voce presentation held with appointed panel by SPPU-
 - Mr. Tushar Y. Badgujar (Supervisor: Dr. V. P. Wani)
4. **09/06/2023:** Brief presentation (RRC) on research topic held with Research Advisory Committee-
 - Santosh Rama Shekokar (Supervisor: Dr. H. A. Chavan)
 - Nilesh Sitaram Gaikwad (Supervisor: Dr. D. D. Deshmukh)
 - Pranav Gajanan Firke (Supervisor: Dr. L. K. Toke)
 - Manoj Subhash Patil (Supervisor: Dr. H. A. Chavan)
 - Ravindra Mahadeo Ghogare (Supervisor: Dr. D. D. Deshmukh)
 - Yuvraj Vadaje (Supervisor: Dr. H. A. Chavan)

Publications:

1. S. K. Nirgude and S. D. Kalpande, Parametric optimization of friction stir welding of AA 6101 T-64 and pure Cu using response surface methodology, International Journal on Interactive Design and Manufacturing (IJIDeM), <https://doi.org/10.1007/s12008-023-01207-w>
2. Vadnere, A.P. and Kalpande, S.D. (2023). "A review on effects of process parameters in milling challenging materials under nanofluid-based MQL conditions", Industrial Lubrication and Tribology, Vol. 75 No. 4, pp. 361-371. <https://doi.org/10.1108/ILT-01-2023-0010>
3. Vishal J Dhore, Lalit K Toke, "Overview of gravity die casting process parameters affecting product quality", 2nd International Conference on Recent Advances in Materials, Manufacturing and Machine Learning (RAMMML 2023), Yeshwantrao Chavan College of Engineering, Nagpur, Maharashtra, India, 02nd – 04th February 2023.
4. A P Vadnere, S D Kalpande, "Potential of Nanofluid based Minimum Quantity Lubrication in machining difficult-to-cut materials: A review on the perception of Sustainable Manufacturing", Second International Conference on "Recent Advances in Materials, Manufacturing, and Machine Learning 2023", Yashwantrao Chavan College of Engineering, Nagpur, 2-4 Feb. 2023.
(Will be published in Scopus indexed proceedings of RAMMML-23.)



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Workshop/Training/FDP:

1. Sharad Kisan Nirgude: Industry 4.0 as a Future, Dr. D. Y. Patil Institute of Engineering Management and Research, Akurdi, Pune. From 20th February 2023 to 24th February 2023
2. Nilesh Sitaram Gaikwad: Short Term Course on- Advances in Composite Materials: Design, Manufacturing and Applications- MNNIT Allahabad, Prayagraj, UP- June 28- July 2, 2023
3. Darshan Diliprao Kulkarni: FDP "CFD using ANSYS Fluent and multi body dynamics
4. Patil Manoj Subhash: A one week FDP on CFD using ANSYS and multi body dynamics during 13/03/2023 to 17/03/2023 at KKWIEER Nashik
5. Dhore Vishal Jagannath: "ASPECTS OF RESEARCH METHODOLOGY". Guru Gobind Singh College of Engineering and Research Centre, Nashik, 01st March to 03rd March, 2023
6. Dhore Vishal Jagannath: "Optimization Techniques For Engineering Applications", Guru Gobind Singh College of Engineering and Research Centre, Nashik, 28th March to 30th March, 2023.
7. Amol P Vadnere: One-week ISTE Approved Online Short-term Training Program on "Engineering Research Methodology" from 27 Feb. to 3 Mar. 2023, organized by AII's M H Saboo Siddiki Polytechnic, Mumbai.
8. Vishal P Chaudhari: "ASPECTS OF RESEARCH METHODOLOGY", Guru Gobind Singh College of Engineering and Research Centre, Nashik, 01st March to 03rd March, 2023
9. Dhore Vishal Jagannath: NPTEL Course on "Principles of Casting Technology". (8 Week) Jan-March 2023.
10. Amol P Vadnere: 8-week Online Course on "Introduction to Research" organized by IIT, Chennai in association with NPTEL from Feb 2023 to April 2023.

Course Work:

1. **For selected candidates in Round-I (2022-23):** Module registrations done and finalization of assignments is in process.



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Admission 2022-23:

1. **11/02/2023:** Personal Interviews for Round-I held with Candidate selection committee and 06 candidates were shortlisted by committee.
2. **10/04/2023:** Vacancies for Round-II declared by research supervisors.
3. **18/05/2023:** Personal Interviews for Round-II held with Candidate selection committee and 02 candidates were shortlisted by committee.


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


Dr. M. P. Ray
H.O.D.


Dr. V. P. Wani
Principal
Principal
MET's Institute of Engineering,
Bhujbal Knowledge City
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