

Name of Teaching Staff	:	Dr. Rahul Shankarrao Warghane	
Designation	:	Assistant Professor	
Department	:	Mechanical Engineering	
Date of Joining the Institution	:	01 Oct 2026	
Email ID	:	warghanerahul1@gmail.com	
Google Scholar Link:	:	https://scholar.google.com/citations?user=iClIx6YAAAAJ&hl=en&oi=ao	
Researchgate Link:	:	https://www.researchgate.net/profile/Rahul-Warghane	
ORCID	:	0000-0002-6700-065X	
Qualifications with Class / Grade	:	1. Ph.D. – VIT University Vellore – 2023 – Mechanical Engineering – Research Area – Farm Machinery Design and optimization. 2. M-Tech - Machine Design – Nagpur University – 2014 – Distinction Grade 3. Bachelor of Engineering - Mechanical Engineering – Nagpur University – 2009 –First Class Grade 4. Diploma in Mechanical Engineering – 2006 – MSBTE.	
Total Experience in Years	:	Teaching: 15 years	
Papers Published in Journal	:	1. Warghane, R.S., Easwara Pillai, R. Efficiency enhancement of thresher by auto-controlling the cylinder clearance. <i>Int J Syst Assur Eng Manag</i> 14, 2066–2079 (2023). https://doi.org/10.1007/s13198-023-01912-5 2. Rahul S. Warghane and Rajkumar E. Pillai (2021) , 'Design optimisation and development of thresher machine using artificial intelligence and machine learning' <i>International Journal of Engineering Systems Modelling and Simulation</i> , Vol. 12, No. 4 , pp. 119-126, https://www.inderscienceonline.com/doi/pdf/10.1504/IJESMS.2021.119872?download=true 3. Rahul S. Warghane, Rajkumar E, Vaibhav K. Bhagat and Swapnil B. Nawale, <i>International Journal of Mechanical Engineering and Technology</i> 8(11), 2017, pp. 1020–1028. http://iaeme.com/Home/issue/IJMET?Volume=8&Issue=1 4. A.D. Pathak, R.S. Warghane, S.U. Deokar,(2018) 'Optimization of cutting parameters in Dry Turning of AISI A2 Tool Steel using Carbide Tool by Taguchi Based Fuzzy Logics, <i>Materials Today: Proceedings</i>, Volume 5, Issue 2, Part 1, Pages 5082-5090, ISSN 2214-7853, https://doi.org/10.1016/j.matpr.2017.12.087. 5. Sayali Kulkarni, Dr. D. N. Raut , Dr.Rahul Warghane. “Recent Advancements In Forging: A Computing Overview “, <i>Journal of Computer Science</i> (ISSN NO: 1549-3636) Volume 19 Issue3 MARCH 2026E3 2026.DOI:10.15229. https://computersciencejournal.org/wp-content/uploads/20.pdf 6. Sayali Kulkarni, D.N. Raut, Rahul Warghane, Atul Jade, "Investigation of Deformation Characteristics in Forging through Mathematical Modelling and	

Papers Presented in Conferences	Microstructure Evolution Analysis," <i>International Journal of Mechanical Engineering</i>, vol. 13, no. 7, pp. 132-144, 2026. Crossref, https://doi.org/10.14445/23488360/IJME-V13I7P111 7. Patil, G.V., Patil, R.G., Patil, H.M. <i>et al.</i> Studies on Fretting Wear Damage Assessment of Piecewise Linear Systems Having Predefined Gap. <i>J Fail. Anal. and Preven.</i> 23, 124–133 (2023). https://doi.org/10.1007/s11668-022-01558-8 8. Rahul S. Warghane and Rajkumar E (2021), 'Design, Development & Validation of Electrostatic Husk Collector', <i>High Technology Letters</i>, Volume 27, Issue 10, 2021, pp. 114-124, https://drive.google.com/file/d/1SmzVjhg_2PsGc6sHv3hoOdeG7whFY_r6/view 9. * Rahul Warghane¹, Rajkumar E.², Swapnil Nawale³, Swapnil Deokar (2022), 'Design Optimization of Thresher Mechanism', <i>Neuroquantology</i> September 2022 Volume 20 Issue 11 Page 7331-7343 DOI: 10.14704/NQ.2022.20.11.NQ66727 1. Pillai Ajesh¹, Ameya Bhadalkar², Rahul Warghane³, Swapnil Deokar⁴, 'Design and Analysis of Snap Fit Joint with Design Calculator', <i>International Conference on Ideas, Impact and Innovation in Mechanical Engineering (ICIIME 2017)</i> ISSN: 2321-8169, Volume: 5 Issue: 6, pp. 644 –649 2. Rahul S Warghane and E Rajkumar (2021), 'Design of battery pack & controller for combined auto driven mini-harvester', <i>IOP Conf. Ser.: Mater. Sci. Eng.</i> 1123 012042, DOI 10.1088/1757-899X/1123/1/012042 3. Vikram Sawant⁴ Swapnil Deokar¹, Rahul Warghane², Abhyudaya Pathak³ (2017), 'Incremental Sheet Forming', <i>International Conference On Ideas, Impact And Innovation In Mechanical Engineering</i>, Volume 5, Issue 6, pp. 779-784, http://www.ijritcc.org/download/conferences/ICIIME_2017/ICIIME_2017_Track/1498206589_23-06-2017.pdf
Area of Specialization	Mechanical System Design, Product development, System modelling Simulation and experimentation, Farm machinery design and Analysis
Subjects Taught	UG Level: - Machine Design - Design of Mechanical System - Kinematics of Machinery - Machinery Diagnostics - Composite Materials - Production Processes PG Level: - Rapid prototyping and Tooling CAD, CAM & CAE
Projects Guided	UG Level: - Design of Sugarcane Bud Removal Machine with Advancements. - Design and development of Electric Discharge Machine - Design and Experimentation of Industrial Water Purifier - Design and development of Oxygen Concentrator - Investigation of Fiber Reinforced Elastomers for morphing wings

	<u>PG Level:</u> Material Characterization and Behavioural Study f Tooth Aligner Material-(Soft Material Focus)	
Recommended Students for Higher Education	<u>Name of the Student</u> Shreyas Honagekar -	<u>University/Industry</u> University of Illinois Chicago
Institute / Department Responsibilities handled	: NBA Criterion : 7 Coordinator Mini-project and project Incharge Lab Coordinator Budget coordinator NAAC – Criterion 04 Coordinator SIG Design domain in-charge Departmental Exam coordinator	