



Savitribai Phule Shikshan Prasarak Mandal's  
**N B NAVALE SINHGAD COLLEGE OF ENGINEERING**  
 (Approved by AICTE & Affiliated to P. A. H. Solapur University, Solapur)  
CURRICULAM VITAE



## Dr. Ravindra Tatyasaheb Vyavahare

Professor & Vice Principal, Ph.D. (Mech. Engg.)

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### Profile Summary

- Experienced engineering educator dedicated to inspiring students through innovative teaching methods and practical application of engineering principles. I have 2 years of industry and 21 years of academic & research experience.
- My commitment to student success is evident through my innovative teaching methods, personalized mentorship, and a steadfast dedication to promoting critical thinking and analytical skills.

### Educational Details

Institute / University Name	Passedout Year	Degree	Remark
Punyashlok Ahilyadevi Holkar Solapur University, Solapur	2016	Ph.D.	Awarded
Shivaji University, Kolhapur	2006	M.E. Mech. (Design Engg.)	First Class
Savitribai Phule Pune University	2000	B.E. (Mech.)	First Class
IIT	2000	GATE	89 Percentile
Bharat English School & Jr. College, Pune	1996	H.S.C.	77%
Nutan Vidyalaya, Ashti	1994	S.S.C.	84%

**Total Experience : 23 Years and 2 Months**

### Teaching Experience

<b>Institute:</b> SVERI's CoE, Pandharpur <b>From</b> 2003-01-01 <b>Total Experience:</b> 3.5 years months	<b>Designation:</b> Lecturer <b>To:</b> 2006-06-30 <b>Approved:</b> No
<b>Institute:</b> SVERI's CoE, Pandharpur <b>From</b> 2006-07-01 <b>Total Experience:</b> 2 years months	<b>Designation:</b> Asst. Prof. <b>To:</b> 2008-06-30 <b>Approved:</b> Yes
<b>Institute:</b> SVERI's CoE, Pandharpur <b>From</b> 2008-07-01 <b>Total Experience:</b> 2 years months	<b>Designation:</b> Asst. Prof. & HoD <b>To:</b> 2010-06-30 <b>Approved:</b> Yes

	<p><b>Institute:</b> SKN Sinhgad CoE, Pandharpur  <b>From</b> 2010-07-02  <b>Total Experience:</b> 3.5 years months</p> <p><b>Designation:</b> Asst. Prof. &amp; Head  <b>To:</b> 2014-03-30  <b>Approved:</b> Yes</p>
	<p><b>Institute:</b> SKN Sinhgad CoE, Pandharpur  <b>From</b> 2014-04-01  <b>Total Experience:</b> 3 years months</p> <p><b>Designation:</b> Asso. Prof. &amp; Head  <b>To:</b> 2017-06-30  <b>Approved:</b> Yes</p>
	<p><b>Institute:</b> SKN Sinhgad CoE, Pandharpur  <b>From</b> 2017-07-01  <b>Total Experience:</b> 3 years 3 months</p> <p><b>Designation:</b> Professor &amp; HoD  <b>To:</b> 2020-09-30  <b>Approved:</b> Yes</p>
	<p><b>Institute:</b> N.B.Navale Sinhgad CoE, Solapur  <b>From</b> 2020-10-01  <b>Total Experience:</b> 3 years 5 months</p> <p><b>Designation:</b> Professor, HoD &amp; Vice-Principal  <b>To:</b>  <b>Approved:</b> Yes</p>
	<p><b>Roles and responsibilities handled in Teaching:</b></p>
Industry Experience	<p><b>Industry:</b> North Star Freezing Equipment Industries Pvt. Ltd, Pune.  <b>From:</b> 2000-12-01  <b>Total Experience:</b> 2 years months</p> <p><b>Designation:</b> Technical Engineer  <b>To:</b> 2002-12-30</p>
	<p><b>Major Roles and Responsibilities Handled in Industry:</b></p>
Research Experience	<p><b>Total Experience :</b> 4 Years and months  <b>Major Roles and Responsibilities Handled in Research:</b></p> <ul style="list-style-type: none"> <li>• Completed Ph.D. Work</li> <li>• Published Research Papers in journals</li> <li>• Attended National &amp; International Conferences and Presented Papers</li> </ul>
Administrative Experience	<p><b>Total Experience :</b> 15 Years and 8 months  <b>Major Roles and Responsibilities Handled in Administration:</b></p> <ul style="list-style-type: none"> <li>• Worked as HoD</li> <li>• Worked as Dean Academics</li> <li>• Worked as coordinator for ISO certification &amp; NAAC accreditation</li> <li>• Worked for NBA accreditation</li> <li>• Worked as Coordinator Board of Studies, Punyashlok Ahilyadevi Holkar Solapur University</li> <li>• Working as Member Board of Studies, Punyashlok Ahilyadevi Holkar Solapur University</li> </ul>
Area Of Interest	<ul style="list-style-type: none"> <li>• Ergonomics, Energy Harvesting Devices</li> </ul>
Subjects Handled	
UG	<ul style="list-style-type: none"> <li>• Entrepreneurship Development</li> </ul>

	<ul style="list-style-type: none"> <li>• C Programming</li> <li>• Machine Drawing</li> <li>• Python Programming</li> <li>• Machine Design</li> </ul>
PG	<ul style="list-style-type: none"> <li>• Industrial Product Design</li> <li>• Research Methodology</li> </ul>
<b>Research And Guidance</b>	
Number of PG Students Guiding / Guided	5
Number of PhD Students Guiding / Guided	5
Total Journal Paper Publications	12
Total Conference Paper Publications	10
UGC Approved	4
Scopus Indexed	2
SCI Indexed	1
<b>Detailed Journal Publication list</b>	<ol style="list-style-type: none"> <li>1. M. N. Gund and R. T. Vyavahare, <i>Investigation on Mechanical Properties of Carbon/Coir Fiber and Epoxy Hybrid Composite Material</i>, 4th International Conference on IDEAS, INNOVATIONS, IMPACT IN SCIENCE AND TECHNOLOGY (ICIIST 2021), 10-11 June 2021.</li> <li>2. A. B. Lingemali and R. T. Vyavahare, <i>Composite Materials and Analysis Techniques: A Review</i>, International Journal of Current Engineering and Technology, Vol.10, No.6, 939-943, Nov/Dec 2020.</li> <li>3. P. Kumbhar, R. T. Vyavahare &amp; S. G. Kulkarni, <i>Vibrational Response and Mechanical Properties characterization of aluminium Alloy 6061/Sic Composite</i>, AIP Conference Proceedings 1966, 020036 (2018); doi: 10.1063/1.5038715.</li> <li>4. S. P. Nawale, R. T. Vyavahare, A. S. Aradhye, <i>High strain rate response of A356/Al2O3 aluminium alloy MMCs using Ls-Dyna</i>, Elsevier Procedia Engineering 173, 1967 – 1974,</li> </ol>

5. 5. Vyavahare R. T. and Kallurkar S. P., *Anthropometry of male agricultural workers of western India for the design of tools and equipments. International Journal of Industrial Ergonomics*, 53: 80-85, 2016 (SCI Indexed).
6. 6. Vyavahare, R. T., and S. P. Kallurkar, *Ergonomic evaluation of electric hedge trimmer using digital human modeling. Agric Eng Int: CIGR Journal*, 17(4): 100-108, 2015 (Scopus Indexed).
7. 7. Vyavahare R. T. and Kallurkar S. P., *Ergonomic evaluation of maize sheller cum dehusker, International Journal of Current Engineering and Technology*, 5 (3): 1881–1886, 2015.
8. 8. S. C. Mali and R. T. Vyavahare, *An Ergonomic Evaluation of an Industrial Workstation: A Review, International Journal of Current Engineering and Technology*, 5(3): 1820-26, 2015.
9. 9. P. K. Bhuse and R. T. Vyavahare, *Anthropometric Measurements and Grip Strength of Western Maharashtra Agricultural Workers, International Journal of Latest Trends in Engineering and Technology (IJLTET)*, 4(2): 126-132, 2014.
10. 10. S. H. More<sup>1</sup> and R. T. Vyavahare, *Anthropometric and grip strength data of agricultural workers for Marathwada region of Maharashtra (India), International Journal of Applied Engineering and Technology*, 4 (2):148-153, 2014.
11. 11. S. P. Nawale, R. T. Vyavahare, A. S. Aradhye, *A Review on Effect of High Strain Rate on Mechanical Behavior of Al based MMCs, International Journal of Emerging Technology and Advanced Engineering*, 4(7): 192-196, 2014.
12. 12. R. T. Vyavahare and S. P. Kallurkar, *Anthropometric and strength data of Indian agricultural workers for equipment design: a review. Agric Eng Int: CIGR Journal*, 14(4): 102 - 114, 2012 (Scopus Indexed).

**Detailed  
Conference  
Publication list**

1. 1. R. T. Vyavahare, *Silk fibroin based biomaterials for energy harvesting, IC-SFSR-2K24: Proceedings of International Conference on Silk Fibroin and Sericulture Resources*, 16-19 Feb. 2024
2. 2. Basavraj R. Birajdar and R. T. Vyavahare, *A Review on Epoxy Polymer Matrix Composite, Its Mechanical and Thermal Properties, Techno-societal 2022: Proceedings of the 4th International Conference on Advanced Technologies for Societal Applications-Vol 1*.
3. 3. A. B. Rathod and R. T. Vyavahare, *Identification and Analysis of Musculoskeletal Disorder Among Indian Truck Driver, Techno-societal 2022: Proceedings of the 4th International Conference on Advanced Technologies for Societal Applications-Vol 2*.
4. 4. A. B. Rathod and R. T. Vyavahare, *Categorizing and Ranking Comfort Design Requirements of Transportation Buses in India, Techno-societal 2022: Proceedings of the 4th International Conference on Advanced Technologies for Societal Applications-Vol 2*.
5. 5. "Postural analysis of male worker operating maize thresher cum dehusker" in *International Conference on Industrial Engineering at Dubai during 16-18 Nov. 2015*.
6. 6. "Selection of Farm Equipments for Ergonomic Analysis using Analytical Hierarchy Process" in *International Conference on Industrial Engg. at SVNIT, Surat during 20-22 Nov. 2013*.
7. 7. "Evaluation of Stress Intensity Factor in Edge Cracked Plate using FEA" in *International Conference on Emerging Trends in Mechanical Engg. at Thapar University, Patiala during 24-26 Feb. 2011*.
8. 8. "Smart Material for 21st Century" in *national conference at Pravara Engg. College, Loni, during 25th –26th Feb. 2005*
9. 9. "Effect of Welding Parameters on Stress Generation" in *national level Technical Symposium at R. I. T., Sakharale, during 11th-12th March 2005*.

10. 10. "Effect of Welding Current Density on Residual Stress Generation" in national conference at COE, Pandharpur, during 23rd-24th Dec. 2005.

**FDP/STTP/Workshop Attended: 8**

Sr.No	Title	Organized by	Dates from to	Duration in Weeks/ Months
1	FDP on AI TOOLS AUTOMATION FOR ACADEMIC & RESEARCH PROGRAMS	N. B. Navale Sinhgad College Of Engineering, Solapur	2023-10-01 to 2023-10-01	1 Day
2	FDP on "Inculcating Universal Human Values in Technical Education"	All India Council for Technical Education(AICTE)	2021-10-18 to 2021-10-22	
3	FDP on "OUTCOME BASED EDUCATION: A STEP TOWARDS EXCELLENCE"	Under Margdarshan Scheme of AICTE, New Delhi, conducted by Government College of Engineering, Karad.	2020-05-11 to 2020-05-15	1 Week
4	FDP on Enhancing Student Connect & Presentation Skills	Cognizant	2020-05-06 to 2020-05-06	1 Day
5	Online Webinar Sponsored by NBA on "Awareness Webinar on Outcome Based Education and Accreditation"	College of Engineering, Pune	2020-11-27 to 2020-11-27	1 Day
6	STTP on "Recent Trends in Heat Exchangers"	SKN Sinhgad College of Engg., Pandharpur	2019-12-17 to 2019-12-22	1 Week
7	Workshop on "Advances in Composite Materials"	SKN Sinhgad College of Engg., Pandharpur	2018-02-03 to 2018-02-03	1 day
8	STTP on "Recent Trends in Manufacturing"	SKN Sinhgad College of Engg., Pandharpur	2017-12-29 to 2017-12-31	3 Day

**Mooc/ Other Courses Attended: 5**

Sr.No	Title	Organized by	Dates from to	Duration in Weeks/ Days
1	Robotic Course	Infosys Springboard	2024-02-12 to 2024-02-14	8Hr
2	Course on Cracking the Creativity Code: Discovering Ideas	Coursera	2020-07-01 to 2020-08-15	5 Week
3	A course on "Becoming a changemaker: Introduction to Social Innovation"	Coursera	2020-06-15 to 2020-07-30	7 Week
4	FDP on "Noise Management and Control"	NPTEL	2019-07-01 to 2019-10-30	12 Week
5	FDP course on "Foundation Program in ICT for Education"	IIT, Bombay	2017-08-03 to 2017-09-07	2 Week

**FDP/STTP/Workshop Conducted: 4**

Sr.No	Title	Organized by	Worked As	Dates from to	Duration in Weeks/ Days
1	Two days' workshop on ARDUINO Robotics	SKN Sinhgad College of Engineering	Coordinator	2016-08-20 to 2016-08-21	2 Days

2	Entereprenurship and Innovation as a Carrer Opportunity	N. S. Soti Law College, Sangli	Resource Person	2024-02-26 to 2024-02-26	1 Day
3	Prototype/Process Design and Development – Prototyping	Lingaraj College, Belagavi	Resource person	2022-06-11 to 2022-06-11	1 Day
4	One week STTP on “Optimization Techniques”	SKN Sinhgad College of Engg., Pandharpur	Resource Person	2018-12-24 to 2018-12-24	1 Day

### Other Activities

<b>Achievements &amp; Awards</b>	<ol style="list-style-type: none"> <li>1. Qualified in GATE Exam 2 Times</li> <li>2. Worked as Coordinator, Board of Studies, Mech. Engg., Punyashlok Ahilyadevi Holkar Solapur University, Solapur</li> </ol>
<b>Professional Memberships</b>	<ol style="list-style-type: none"> <li>1. ISTE Life Member</li> <li>2. IEI Life Member</li> </ol>
<b>Major Projects Handled</b>	<ol style="list-style-type: none"> <li>1. Ergonomic Evaluation of Few Agricultural Equipments Being used in Maharashtra: Collected and published anthropometric data for agriculture workers in Maharashtra, analysed and suggested improvements for few manual operated agricultural equipments.</li> </ol>

### Personal Details

<b>Employee Code</b>	SOL/KT/02/B/421
<b>Adhar Card Number</b>	636138358548
<b>Pan Card Number</b>	AERPV8161J
<b>Passport Number</b>	J3403208