

**DEPARTMENT OF MECHANICAL ENGINEERING**

<b>Name</b>	VANAJRI SACHIN VILAS	
<b>Designation</b>	<b>HOD, MECHANICAL.</b> Associate. Prof.	
<b>Date of Birth</b>	<b>15/12/1972</b>	
<b>Highest Qualification</b>	<b>M.E.</b>	
<b>Specialisation</b>	<b>Design</b>	
<b>Teaching experience</b>	<b>25 Years</b>	
<b>Industrial Experience</b>	<b>04 Years</b>	
<b>Email id</b>	sachinvanjari@rediffmail.com	
<b>Date of joining</b>	10/07/1999	

<b>No .of Papers presented/published (National conferences)</b>	<b>03</b>
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<b>Details</b>	<p>1.13th International Conference on Recent Innovations In Science, Engineering &amp; Management 23.02.18 ISBN:978-93-87793-02-6 "Copper-Chromium electric contact materials by Power Forging".</p> <p>2. 13th International Conference on Recent Innovations In Science, Engineering &amp; Management 23.02.18 ISBN:978-93-87793-02-6 "Multi-Objective Optimization of Laser Cutting Process Parameters for mild steel."</p> <p>3.International Conference on Advances in Mechanical, Civil and Construction Engineering ICAMCCE-PUNE on 14.04.19 "Design and Fabrication Of All Terrain Wheel Chair" Paper ID IR-MCCE-PUNE-14049-2452</p>
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<b>No. of Papers presented/published (International conferences)</b>	<b>17</b>
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<b>Details</b>	<p>1. Design OF GENERALISED MODEL OF INTELLIGENT &amp; ADAPTIVE DESIGN TOOL FOR CAD SOFTWARE IJAMTES ISSN 2249-7455 VOL-II ISSUE 10(I) JULY 13</p> <p>2. "Experimental Investigation On Surface Roughness In Finish Turning Of EN8 Steel" IJSR VOL-II MAR 14</p> <p>3."Heat Transfer Enhancement using porous material" in IJLTET Journal, Volume 8 Issue 1 Jan17</p> <p>4.'Investigation of Heat Transfer Rate through Porous Material " In IJRASET Journal VOL 5, Issue X, Oct 17</p> <p>5.'Design &amp; Fabrication of Mango Seed Deshelling Machine' in IJSART VOL 4 Issue 4 April 2018</p> <p>6."Improvement In Efficiency Of Solar Evacuated Tube Using Heat Pipe" in IJSART Journal Vol 4, Issue 4 Apr 18</p> <p>7."Stair Climbing Wheelchair: A Literature Review" IJSRD Journal vol 6 Issue 9 NOV2018 ISSN23210613</p> <p>8. Customisation Of Swaging Machine IJSRD Journal vol 6 Issue 9 NOV 2018 ISSN 23210613</p> <p>9. Design and Optimization of a Diffuser Augmented wind turbine (Wind Lens turbine) using CFD IRJET VOL 7 APR 2020 ISSUE ISSN 23950072</p> <p>10. Review paper on Diffuser Augmented Wind Turbine (Wind Lens Turbine) IRJET VOL 7 APR 2020 ISSUE ISSN 23950072</p>
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	<p>11. Development of Pneumatic Exoskeleton Suit IRJET VOL 7 APR 2020 ISSUE ISSN 23950072</p> <p>12. Review on Design and Fabrication of Bevel gear operated Screw jack IJSRD VOL 8 ISSUE 1MAR2020 ISSN 23210613</p> <p>13. Review paper on design and manufacturing of rice transplanting machine IJSREM Feb -22 VOL 6 ISSUE 2 ISSN-2582-3930</p> <p>14. Research paper on design and development of paddy harvester machine. IJSREM vol 5 ISSUE 11 Feb-22 ISSN-2582-3930</p> <p>15. Review paper on design and development of paddy harvester machine. IJSREM vol 5 ISSUE 11 Nov-21 ISSN-2582-3930</p> <p>16. Design and manufacturing of rice transplanting machine IJSREM March-22 VOL 3 ISSUE 6 ISSN-2582-3930</p> <p>17. Review Paper on Automatic Bike Washer Design and Manufacturing Volume 10, Issue 2, February 2023 DOI: 10.17148/IARJSET.2023.10217</p>
<b>No. of seminars</b>	01
<b>Details</b>	1. TWO DAYS SEMINAR ON TRANSFORMATION AND EMPOWERMENT THROUGH EDUCATION at S.L.R Tiwari college MUMBAI 28/12/2020 to 29/12/2020
<b>No. of STTP/Workshops</b>	28
<b>Details</b>	<p>1) Two days Orientation program at Thadomal Sahani College in 2000.</p> <p>2) STTP on Engg. Mechanics at AISSMS college of Engg. Pune.</p> <p>3) One day seminar on Engg. Mechanics &amp; Engg. Drawing at SPCE, Andheri.</p> <p>4) Training program on "AUTOCAD" at GIT, Khed.</p> <p>5) STTP on "Advanced Materials in engineering" at SSPM COE, Kankavali.2010</p> <p>6) STTP on "Finite Element Analysis and their applications in science and engineering" at Annasaheb Dange COE, Ashta.</p> <p>7) STTP on "Solar, wind &amp; renewable energy sources" at SSPM COE, Kankavali</p> <p>8) STTP on "Nanotechnology-Fabrication Methods &amp; its application" at A.M.A.N.C. College, Rajapur</p> <p>9) STTP on "Moving towards Open Source" at Vidyalankar Institute, Mumbai 2012</p> <p>10) Two week STTP on Thermodynamics at FAMT Ratnagiri</p> <p>11) STTP on "Outcome Based Education-Innovative Teaching Learning Process " at SPIT, Andheri, Mumbai.2016-17</p> <p>12) Two Days Workshop on "Institute Development Through Research" at KIT College 2017-18</p> <p>13) STTP on "Emerging Trends and Approaches in Product Design and Development" at PVPIT Budhgaon Sangali 2017-18</p> <p>14. Workshop on PYTHON at IIT mumbai on 22.06.19</p> <p>15. STTP on Energy Efficient Practices in Refrigeration &amp; Air Conditioning at FAMT Ratnagiri on 2 to 6.12.19</p> <p>16. ONLINE STTP on the LaTeX training organized at Chevalier T. Thomas Elizabeth College for Women in January 2020 semester, with course material provided by the Spoken Tutorial Project, IIT Bombay. 27/04/2020 to 1/05/2020</p> <p>17. ONLINE STTP on Academic Innovation Industry 4.0 at VIT pune</p>

	<p>14/12/2020 to 19/12/2020</p> <p>18. Online STTP on Energy Efficient Practices in refrigeration &amp; Air conditioning at FAMT 02/12/2020 to 06/12/2020</p> <p>19. ONLINE STTP on Exploring the diamentions of innovations, incu-bation and emmerging technologies to embrase post COVID changes, at FAMT 08/06/2020 to 12/06/2020</p> <p>20. ONLINE STTP on Innovative Trends in Engineering &amp; Technology at S.L.R Tiwari college MUMBAI 25/05/2020 to 29/05/2020</p> <p>21. ONLINE STTP on Energy Conservation Week at VCET from 14/12/2020 to 18/12/2020</p> <p>22.ONLINE STTP onRecent Advances in Health 5.0 in line with NEP 2020 From 22.03.2021-26.03.2021 at Arvind Gawali College Satara</p> <p>23. ONLINE IP Awareness/Training Programme at JSPM'S B.Sawant Institute Wagholi Pune on 25.01.2022</p> <p>24.ONLINE STTP on Deep Learning with KERAS at SSPM COE KANKAVLI on 10.01.22-14.01.22</p> <p>25. ONLINE STTP on Advanced Material Processing at FAMT Ratna-giri on 21.02.22-25.02.22</p> <p>26. One day programme on Enterprenership Awareness Programme at SSPMCOE with MSME Ministry Govt of India on 18.02.2022</p> <p>27. ONLINE STTP on New Era of Manufacturing -Challenges and Op-portunity at D.Y.P.C.E.T.Kolhapur on 25.07.2022-30.07.2022</p> <p>28. Faculty orientation program on Automotive Power System and Ve-hicle system on 12.07.2022 by Mumbai University</p>
<b>No. of projects guided at UG level</b>	<b>21</b>
<b>Details</b>	<p>1.Smart Automobile (2014)</p> <p>2.Six stroke Engine(2014)</p> <p>3.Design &amp; Manufacturing of Plano Miller(2015)</p> <p>4. Design &amp; Manufacturing of Aluminum section cutting Machine (2015)</p> <p>5.Automated spray paint set-up(2016)</p> <p>6.Modified engine running on acetylene.(2016)</p> <p>7.Potato Peeling &amp; Slicing Machine (2017)</p> <p>8. Smart Seed Sowing Machine (2017)</p> <p>9. Automated Mango Seed Deshelling machine(2018)</p> <p>10.Evacuated Tube Solar Plate Collector (2018)</p> <p>11. Stair Climbing Wheelchair (2019)</p> <p>12. Swaging Machine (2019)</p> <p>13.Design and Optimization augmented horizontal WIND LENS(2020)</p> <p>14.Development of Pneumatic Excavator suit(2020)</p> <p>15.Design and development of bevel gear gear box.(2020)</p> <p>16. Modification in Paper Lamination machine(2021)</p> <p>17.Rice Transplanter (2021)</p> <p>18. Bubble barrier(2021)</p> <p>19. Design and Manufacturing of Rice Transplant Machine(2022)</p> <p>20.Design and Development of Paddy Harvester(2022)</p> <p>21. Automatic Bike Washer Design and Manufacturing(2023)</p>
<b>Membership in Professional Bodies</b>	<b>ISTE LM 5164 SAEINDIA ID 7160577220</b>
<b>Research / Sponsored / Consultancy Projects</b>	<p>1. Design &amp; Manufacturing of Plano Miller(2015)</p> <p>2.Design &amp; Manufacturing of Aluminum section cutting Machine</p>

	<p>(2015)</p> <p>3. Automated spray paint set-up(2016)</p> <p>4.Stair Climbing Wheelchair (2019)</p> <p>5. Swaging Machine (2019)</p> <p>6. Design and development of bevel gear gear box.(2020)</p> <p>7. Modification in Paper Lamination machine(2021)</p> <p>8. Design and Manufacturing of Rice Transplant Machine(2022)</p> <p>9.Design and Development of Paddy Harvester(2022)</p> <p>10. Automatic Bike Washer Design and Manufacturing(2023)</p>
<b>Awards / Honours / Prizes</b>	Participated as a Expert in Discussion in Sahyadri channel( DD) on 08.04.2006
<b>No. of Books published</b>	Nil
<b>Details</b>	-----