

	<b>Name</b>	Prof.Dr. SachinShankarrao Chavan		
	<b>Designation</b>	Professor		
	<b>Department</b>	Mechanical Engineering		
	<b>Qualification</b>	B.E(Production),M.E(Mechanical) Ph.D		
	<b>Contact No.</b>	09271635407	<b>Ph. Extension</b>	
	<b>Email ID</b>	sschavan@bvucoep.edu.in		
	<b>Experience</b>	<b>Teaching :</b>	Years:13	<b>Industry :</b>

<b>Area of Interest</b>	<b>Industrial Engineering and Composite Material</b>		
	International Journals : 28, National Journals :03		
	International conference :07 , National conference:04		
	Published one patent		
<b>Publication</b>	<b>International Journals:</b>		
	1.	<b>“Fracture problems, vibration, buckling, and bending analyses of functionally graded materials:A state-of-the-art review including smart FGMS” Taylor and Francis Group Particulate Science and Technology An International Journal ISSN: 0272-6351 (Print) 1548-0046 (Online) Journal 08 Mar 2018.</b>	
	2.	<b>“Nanotechnology: A growing need for agriculture and food sectors” Taylor and Francis Group Integrated Ferroelectrics Volume 185. Page 73-81 12 December 2017</b>	
	3.	<b>“Nanotechnology and Its Application in Cosmetic Industry A Concise Review” International Journal of Innovative Science and Research Technology Volume 2, Issue 9, September– 2017 ISSN No: - 2456 – 2165 Impact Factor : 3.585</b>	
	4.	<b>“Synthesis of TiO<sub>2</sub> Nanofibers for Solar Cells and Their Analysis Using Statistical Tool—ANOVA” Springer International Publishing AG 2018 P.M. Pawar et al. (eds.), Techno-Societal 2016, DOI 10.1007/978-3-319-53556-2_57.978-3-319-53555-5</b>	
	5.	<b>“Influence of nanotechnology and the role of nanostructures</b>	

	<p><b>in biomimetic studies and their potential applications"</b><i>Biomimetics</i><b>2017</b>, Volume2 Issue (2),2020007 May 2017.</p>
6.	<p><b>“Design &amp; Analysis of Sandwich Composite Leaf Spring For HMV”</b> International Journal of Mechanical Engineering and Technology (IJMET) Volume 8, Issue 9, September 2017, pp. 01–17 ISSN Print: 0976-6340 <b>Impact Factor 9.22 opus Indexed</b></p>
7.	<p><b>“ANOVA: Electrospinning of Nylon 6 nanofibers with optimum diameter”</b> Advanced Science Letters, Volume 22, Number 4, April 2016, pp. 808-814(7) I10.1166</p>
8.	<p><b>“Synthesis and Characterization of Nanocomposites with VATRM and Electrospinning Processes”</b>International Journal, Carbon – Science and Technology Vol.5, Issue 3, November 2013, 289 – 295.</p>
9.	<p><b>“A Review: Computer Aided Analysis for Weight Optimization of Leaf Spring Using Intermediate Layers of GFRP and CFRP”</b> International Journal of Innovative Research In Technology, Volume 4 Issue 1 July 2017 ISSN : 2349 – 600, page no 217-223 Impact factor 5.8</p>
10	<p><b>“Review –Electrospun Nanofibers In Biomedical Field”</b> IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE) e-ISSN: 2278-1684,p-ISSN: 2320-334XPP. 01-05</p>
11	<p><b>“A Review On Natural Composites”</b> IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE) e-ISSN: 2278-1684,p-ISSN: 2320-334X PP. 88-95</p>
12	<p><b>“TiO2 Nanofiber and Its Potential Application: Review”</b> International Journal of Innovative Research in Technology</p>

		<b>Publication Volume &amp; Issue: Volume 4, Issue 2, Page(s): 1 – 10, impact factor- 5.8 July 2017.ISSN 47589</b>
	13	<b>“ZnO nanofiber application area and ZnO properties review”</b> International Journal of Innovative Research in Technology Publication Volume & Issue: Volume 4, Issue 1, Page(s): 358-362. <i>impact factor- 5.8. July 2017 ISSN 47589</i>
	14	<b>“Characterization Technique of Nanofibers”</b> International Journal for Scientific Research & Development  Vol. 4, Issue 03, 2016 page no 2035-2041   ISSN (online): 2321-0613 <i>impact factor- 2.89</i>
	15	<b>“Review: Electro Spinning Technique and Factors Affecting Electro Spun Nano Fibers and Some Applications”</b> International Journal for Scientific Research & Development  Vol. 4, Issue 03, 2016 page no 681-686   ISSN (online): 2035-2041 <i>impact factor- 2.89</i>
	16	<b>“Quantum Dots and Biomedical Applications”</b> International Journal for Scientific Research & Development  Vol. 4, Issue 04, 2016 page no 166-172   ISSN (online): 2035-2041 <i>Impact factor- 2.89</i>
	17	<b>“Short Review: Different Type of Ionic Liquids for CO2 Absorption”</b> International Journal for Scientific Research & Development  Vol. 4, Issue 04, 2016 page no 870-874   ISSN (online): 2321-0613 <i>Impact factor- 2.89</i>
	18	<b>“An Effective Method for Soil Moisture Sensing using Arduino Uno and Interfacing with GSM Sim900”</b> International Journal for Scientific Research & Development  Vol. 4, Issue 04, 2016 page no 976-978   ISSN (online): 2321-0613 <i>Impact factor- 2.89</i>
	19	<b>“Review On: Application of Nanotechnology in Computer Science”</b> International Journal of Science and Research (IJSR) Volume 5

		Issue 2, February 2016 ISSN (Online): 2319-7064 Index Copernicus Value (2013): 6.14   Impact Factor (2014): 5.611 Page No 1542-1545
	20	<b>“A Brief Review on Different Synthesis Methods of CZTS Nano-Particles”</b> International Journal for Scientific Research & Development  Vol. 4, Issue 04, 2016 page no1102-1103   ISSN (online): 2321-0613 <i>Impact factor-</i> 2.89
	21	<b>“Assessment of Three Phase Nanocomposite with Electrospun Nanofibers”</b> International Journal of Science and Research (IJSR), Vol. 4, Issue 6, June 2015, 563-567. Impact Factor (2013): 4.438 ISSN 2319-7064
	22	<b>“Human Safety: Composite Road Divider”</b> International Journal of Advanced Technology in Engineering and Science Volume No.03, Issue No. 12, December 2015. Impact Factor-1.013 ISSN 2348-7550 Page No 117-123
	23	<b>“Review-Paramatrecic investigation of electrospun nanofiber”</b> , International Journal of Engineering Research and General Science Volume 3, Issue 5, September-October 2015 537-547 ISSN 2091-2730 <i>impact factor-</i> 3.72
	24	<b>“Analysis of Flexural Properties of Carbon Fiber Reinforced / E-Poxy Composite Material”</b> International Engineering Research Journal (IERJ) Special Issue 2 Page 4920-4924, 2015, ISSN 2395-1621
	25	<b>“Analysis of a Short Beam Strength of Glass Fiber Reinforced / Epoxy (GFR-E) Composite Material”</b> International Engineering Research Journal (IERJ) Special Issue 2 Page 4920-4924, 2015, ISSN 2395-1621
	26	<b>“Design, Analysis, Manufacturing and Testing of Mono Composite Leaf Spring Using UD E-Glass Fiber/Epoxy”</b> International Journal of Advanced Technology in Engineering and Science Vol. 02, Issue 12, December 2014, 112-

		121. Impact Factor-1.013.
	27	<b>“Review-Parametric investigation of electrospun nanofiber”</b> International Journal of Engineering Research and General Science Volume 3, Issue 5, September- October, 2015 ISSN 2091-2730 Impact Factor (2013): 3.843 Page 537-547
	28	<b>“Synthesis and Characterization of Nanocomposites with VATRM and Electrospinning Processes”</b> International Journal, Carbon – Science and Technology Vol.5, Issue 3, November 2013, 289 – 295.
<b><i>National Journals:</i></b>		
	1.	<b>“Enhancement in Mechanical Properties by VARTM Process &amp; Nylon Nanofibers in Advance Composite Materials”</b> Paripex - Indian Journal of Research Vol. 3, Issue 5, June 2013, 112-114. Impact Factor-0.32
	2.	<b>“Synthesis and Parametric Investigation of Nanofibers by using Electrospinning Process”</b> Paripex - Indian Journal of Research Vol. 3, Issue 5, June 2013, 101-103 Impact Factor-0.32
	3.	<b>“Mono Composite Leaf Spring-Design and Testing”</b> Indian Journal of Applied Research Vol.3, Issue 7, July 2013, 112-114. Impact Factor-0.8215
<b><i>International Conferences:</i></b>		
	1.	<b>“Review – Parametric Investigation to Produce Nano Fibers by Electrospinning Process”</b> International Conference: Advance in Mechanical Engineering Government College of Engineering, Pune 29 -31 May 2013.
	2.	<b>“Investigation of Electrospun Nanofiber-Parametric Study for diameter of the Nanofiber”</b> Nanocon 012- International Conference: Nanotechnology-Innovative Materials, Processes, Products and Applications 18-19 October 2012.
	3.	<b>“Assessment of Electrospun nanofibers properties in two</b>

		<b>phase composite”</b> International Conference on “Nano Technology materials and Composites for Frontier Applications.”NANOCON 2010 14-15 October 2010 Pune.
	4.	<b>“Low Cost Manufacturing of 1-D Nanostructures using Electrospinning”</b> International Conference on Precision, Meso, Micro and Nano Engineering, 10-11 December 2010 Government College of Engineering, Pune.
	5.	<b>“Knowledge Representation System With Help Of Petri Net In Supply Chain Management”</b> International Conference on “An Advanced optimization Technology Approach” Coimbatore Institute of Technology, Coimbatore-641014, India. 24 <sup>th</sup> -26 <sup>th</sup> June 2006
	6.	<b>“Evaluation of Length of Propeller Shaft”</b> International Conference on “An Advanced optimization Technology Approach” Coimbatore Institute of Technology, Coimbatore-641014, India. 24 <sup>th</sup> -26 <sup>th</sup> June 2006
	7.	<b>“Review-Green Supply Chain Management Practices ,Theories and Models”</b> International Conference –Advance in Mechanical Engineering Government College of Engineering, Pune, 29 -31 May 2013
<b><i>National Conferences:</i></b>		
	1.	<b>“Multiscale Effect of Micro and Nano Fibers Infused with Epon 862-W Resin”</b> National Conference “Research and Development in Mechanical Engineering” Rasoni College of Engineering, Pune 12-13 March 2013.
	2.	<b>“Nanocomposites by Electrospinning and VARTM Process”</b> NAFEMS Indian Symposium on Composite Products from Concept Design to Manufacturing 24-25 July 2009 The IEL, Banglore (India).

	3.	<b>“Review: Manufacturing of Nanofibers ByEletrospinning and their application”</b> National Conference on “Innovation in Mechanical Engineering” at Sinhgad Institute of Technology Lonavala, Pune.
	4.	<b>“Petri Nets in Supply Chain Management”</b> National Seminar XII ISTE Convention , JSPM Group of Institute Wagoli 12-13 January 2008.
<b>Books Published</b>		
<b>Professional Memberships</b>		<b>Nil</b>
<b>Workshop/ Seminar/Conference attended</b>		<ul style="list-style-type: none"> <li>• Workshop “Darim Studio” 6- 8 June 2016, BVU Institute of Management and Entrepreneurship Development, Pune.</li> <li>• Workshop “High Impact Presentation” 20-21 November 2015 BVUCOE, Pune.</li> <li>• Seminar “Cost Reduction through Innovations in S.C.M” 7th February 2015, Indian Institute of Materials Management, Pune.</li> <li>• Workshop “Understanding the Mind &amp; Conditioning Ourselves through EFT”19th July 2014, BVUCOE, Pune.</li> <li>• Short Course “FRP Composites: Overview, Characterization, Analysis, Design and Application FRP”10-11 July 2014, IIT Hyderabad.</li> <li>• Seminar “Opportunities and challenges in Supply Chain Management” 8th February 2014, Indian Institute of Materials Management, Pune.</li> <li>• Faculty Development Programme “Nanomaterials and Nanocomposites” 2-6 December 2013,College of Engineering, Pune.</li> <li>• Seminar “Social Media Marketing for Education” 12th October 2013 BVUCOE, Pune.</li> <li>• Seminar “Personal Effectiveness and Career Progression” 29th March 2013 BVUCOE, Pune.</li> <li>• Training Programme “Application of MATLAB” 4-6 March 2013 National Water Academy, Pune.</li> <li>• Seminar “Good Teaching Practices &amp; Challenges” 25th January 2013 BVUCOE, Pune</li> <li>• A Three day National level seminar on Emerging Technologies In Micro &amp; Nano Manufacturing June</li> </ul>

		<p>12th – 14th 2012 DIAT (DU),Pune.</p> <ul style="list-style-type: none"> <li>• National Seminar “Advances in New Engineering Composite Materials 12-13 Feb 2009, Sagamner.</li> <li>• Workshop on Nanotechnology-NANNOTECH 2008 April 4-5 2008 MITCOE, Pune</li> <li>• • Workshop “Teaching Engineering Effectively”11th-12th August 2006 Great Foundation</li> </ul>
Achievements		<ul style="list-style-type: none"> <li>• <b>Patent Published</b></li> <li>• <b>Publication Date : 17/11/2017:</b></li> <li>• Application No. 201621010253 dated 23.03.2016 entitled “<b>Composite Road Dividers and amethod of manufacturing the same</b>”</li> <li>• <b>Project Investigator:</b>Grants received from<b>Department of Science and Technology Govt. Of India (NANO MISSION)</b> of <b>Rs 33.72 Lacs</b> for the project entitled “Charged graphite nanoplateletes anchored ultra filtration membranes for separation of heavy metals” March 2018 to March 2020.</li> <li>• <b>Project Investigator:</b> Grants receivedfrom <b>DRDO Defence Material &amp;Stores Research Development Establishment Kanpur</b> of<b>Rs. 10.00 lakhs</b> for the project “Manufacturing of Panels of Plain and varied shapes using Composite Materials and Nano Fibers (Eletrospinning Method) by VARTM Process” Nov 2011 to Nov 2014 at B.V.U.C.O.E. Pune.</li> <li>• <b>Project Investigator:</b>Grants receivedfrom <b>DRDO R &amp; D Engineers, Pune</b> of<b>Rs. 5.20</b> lakhs for the project “Synthesis of Polyamide 6,6 nano fibers of various diameters and densities on E- glass fabric by electrospinning process” June 2013 to June 2015.</li> <li>• <b>Member Board of Studies Mechanical and Production from 2012 till date.</b></li> </ul>



		<ul style="list-style-type: none"> <li>• <b>CAP Director for Academic year 2017-18 winter examination.</b></li>   <li>• <b>Delivered Guest Lectures</b></li> <li>• S.B.Patil College of Engineering, IndapurKolhapurTopic : Nanotechnology for Mechanical Engineering dated 15<sup>th</sup> March 2017.</li> <li>• DaulatraoAhire College of Engineering, Karad, KolhapurTopic : Nanotechnology for Mechanical Engineering dated 18<sup>th</sup> January 2018.</li> <li>• Bharati Vidyapeeth College of Engineering, KolhapurTopic : Nanotechnology for Mechanical Engineering dated 4<sup>th</sup> September 2017</li> <li>• G.H.Raisoni College of Engineering &amp; Management Ahmednagar. Topic : Composite Materials Using Nanocomposite” dated 2<sup>nd</sup> August 2017</li> <li>• Department of Nanotechnology and Nanoscience Kolhapur University, Kolhapur.</li> <li>• Bharati Vidyapeeth College of Engineering, Lavale, Pune</li> <li>• Bharati Vidyapeeth Women Engineering College Pune.</li>   <li>• <b>Keynote Address</b></li> <li>• National Conference “Advance in Engineering and Technology” organized by JSPM Narhe.</li>   <li>• <b>Session Chair</b></li> <li>• National Conference “Advance in Engineering and Technology” organized by Bharati Vidyapeeth College of Engineering, Kolhapur dated 10<sup>th</sup> March 2018</li> </ul>
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		<ul style="list-style-type: none"> <li>• <b>Invited Talk</b></li> <li>• STTP “Micro and Nanotechnology” S.B.Patil College of Engineering, Indapur 9<sup>th</sup> November 2017.</li>   <li>• <b>Reviewer</b></li> <li>• International Conference –Advance in Mechanical Engineering .Government College of Engineering, Pune</li>   <li>• <b>RESEARCH OUTCOME:</b></li> <li>• <b>Manufactured Composite Road Divider</b> by using glass epoxy composite with secondary reinforcement of nano fibers, biomimic resin for increasing impact strength ,which in result will reducing impact back force i.e reduced head injures while accidents on the road.</li> <li>• <b>Manufactured and testing Composite Monoleaf Spring</b> by which 77% of weight reduction is done by using glass epoxy composite as compared to steel leaf spring.</li> </ul>
Extra Activities		<ul style="list-style-type: none"> <li>• Co-ordinator: Blood Donation Camp</li> <li>• Secretary: Alumni Association Bharati Vidyapeeth College of Engineering (From 2004 till date).</li> <li>• Co-covenor: 4th International Conference NANOCON016 Nano-Technology Nanotechnology – “Nanotechnology - Applications Advances and Innovations</li> <li>• PG Co-ordinator M.Tech Nanotechnology</li> <li>• Co-covenor: 1st International Conference NANOCON010 Nano-Technology “Material and Composites for the Frontier Applications”.</li> <li>• Member: 2nd International Conference NANOCON012 Nano-Technology “Material and Composites and Applications”.</li> <li>• Member: 3rd International Conference NANOCON014 Nano-Technology “Smart Material, Composites,</li> </ul>

		<p>Applications and New Invention”.</p> <ul style="list-style-type: none"> <li>• Convener: Golden Jubilee Committee (B.V.U.C.O.E Pune)</li> <li>• Member: Conference on “Indian Economic Conference” (2011).</li> <li>• In-charge: Production Engineering Student Association.(2006-2016)</li> </ul> <p>Programme Officer: National Service Scheme (2008-2010)</p> <ul style="list-style-type: none"> <li>• In-charge: Art Circle(2008-2010)</li> <li>• Conducting Theory and Practical for allotted subjects</li> <li>• Examiner and Paper Setter for S.E, T.E, B.E. exams.</li> <li>• In-charge-Department Time Table B.V.U.C.O.E Pune</li> <li>• Worked for NAAC &amp; NBA accreditation work in 2004,2011</li> <li>• Prepared B.V.University Annual Report:2007-08</li> <li>• Laboratory commissioning/development: Robotics, Composite Material Laboratory and Nanotechnology.</li> </ul>
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