


SRES', Sanjivani College of Engineering, Kopargaon
(An Autonomous Institute affiliated to SPPU, Pune)

Staff Profile

Personal Information			
Name of Teaching Staff: Bhaskar Santosh Vitthal			
Designation: Professor			
Department : Mechanical Engineering			
Date of joining : 1.11.2000			
E Mail ID :		bhaskarsantoshmech@sanjivani.org.in	
Contact No:		9923607460	
Education Details			
Qualification	Specialization with Class or Grade	University	Year
UG	B.E(Mechanical)	Govt. College of Engg., Pune	1996
PG	M.E.(Mech-Design)	Savitribai Phule Pune University, Pune	2006
Ph. D.	Mechanical	Savitribai Phule Pune University, Pune	2018
Total experience in years:			
Teaching:		26 years	
Industry:		2 years	
Research and Publications			
<p>[1] S. V. Bhaskar and H. N. Kudal, Multi Criteria Decision Making Approach to Material Selection in Tribological Application, International Journal of Operational Research, 36 (1), 92-122 ISSN print: 1745-7645, ISSN online: 1745-7653, September 2019, https://www.inderscienceonline.com/doi/abs/10.1504/IJOR.2019.102072 (Scopus)</p> <p>[2] S. V. Bhaskar and H. N. Kudal, Investigation of Tribological Behaviour of Nitrided and Coated AISI 4140 Steel, Journal of Materials Science and Surface Engineering, Vol. 5, Issue 5, 627-632, ISSN (Online): 2348-8956, March 2017; https://www.jmsse.in/files/553_Santosh_V_Bhaskar_et_al.PDF</p>			

[3] S. V. Bhaskar and H. N. Kudal, Experimental Investigation and Statistical Approach to Wear Characterization of Plasma Nitrided AISI 4140 Steel-A Case Study, Journal of Manufacturing and Industrial Engineering, Vol. 15 (1-2), pp. 1-9, 19th June, 2017. DOI:10.12776/MIE.V15I1-2.804

[4] S. V. Bhaskar and H. N. Kudal, Tribology of nitrided-coated steel-a review, Archives of Mechanical Technology and Materials, Vol. 37, pp. 50-57, 2017. ISSN: 2450-9469, DOI: <https://doi.org/10.1515/amt-2017-0008>

[5] S. V. Bhaskar and H. N. Kudal, Effect of TiCN and AlCrN Coating on Tribological Behaviour of Plasma-nitrided AISI 4140 Steel, International Journal of Surface Engineering and Interdisciplinary Materials Science, Vol. 5, Issue 2, July-Dec. 2017, pp. 1-17. <https://www.igi-global.com/article/effect-of-ticn-and-alcrn-coating-on-tribological-behaviour-of-plasma-nitrided-aisi-4140-steel/192111>, DOI: 10.48/01IJSEIMS.2017070101

[6] R. A. Gujar, S. V. Bhaskar, Shaft Design under Fatigue Loading by using Modified Goodman Diagram, International Journal of Engineering Research and Applications, Vol 3, Issue 4, July-August 2013, pp. 1061-1066, ISSN: 2248-9622, <https://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.414.7899&rep=rep1&type=pdf>

[7] Amit Kalmegh, Santosh Bhaskar, Dynamic Balancing of Centrifugal Pump Impeller, International Journal of Emerging Technology and Advanced Engineering, Volume 2, Issue 6, June 2012, pp. 409-413, ISSN: 2250-2459, <https://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.435.385&rep=rep1&type=pdf>

[8] Jalees Ahemad, S. V. Bhaskar, Development of Al/Sic5%, Al/Sic10%, Al/Sic15%, Metal Matrix Composite and its Comparison with Aluminium Alloy-LM25 on Tribological Parameters, International Journal of Emerging Technology and Advanced Engineering, Volume 3, Issue 9, September 2013, pp. 454-549. ISSN 2250-2459, <https://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.396.923&rep=rep1&type=pdf>

[9] B. R. Rajendra, S. V. Bhaskar, Conditioning Monitoring of Gearbox by using Motor Current Signature Analysis, International Journal of Scientific and Research Publications, Volume 3, Issue 8, August 2013, ISSN 2250-3153, <http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.413.6091&rep=rep1&type=pdf#page=564>

[10] Prafulla P. Jadhav, S. V. Bhaskar, Design and Analysis of Helical Gear Made of Stainless Steel and Nylon under Different Loading Conditions, International Journal of Engineering

Research and Technology, Volume 5, Issue 10, October 2016, pp. 546-552, ISSN: 2278-0181

[11] C. A. Kolse, S. V. Bhaskar, Mechanical and Tribological Investigation of Coated Steel, International Journal of Advance Research and Innovative Ideas in Education, Volume 1, Issue 4, 2015, pp. 134-137, -ISSN(O)-2395-4396, <http://ijariie.com/AdminUploadPdf/MECHANICAL AND TRIBOLOGICAL INVESTIGATION OF COATED STEEL ijariie1285 volume 1 14 page 134 137.pdf>.

[12] Sadafal Ganesh, S. V. Bhaskar, Vakte N. M., Mechanical and tribological analysis of nitrided AISI 4140 Steel with TiAlN and TiCN Coatings, Volume 2, Issue 2, August 2016

[13] Nilesh M. Wakte, S. V. Bhaskar, Mechanical and Tribological Analysis of Nitrided AISI 4140 Steel with Coatings, International Engineering Research Journal, pp. 1706-1712 <http://www.ierjournal.org/pupload/mitpgcon/1706-1712.pdf>

[14] S. V. Bhaskar, Dhumal Ajay, Study of Effecting Compliance for Crash Through Design and Analysis of Front Bumper for Light Vehicle, International Journal of Innovative Research in Science and Engineering, Volume 2, Issue 3, March 2016,

[15] R. A. Gujar, S. V. Bhaskar, Model analysis of inertia dynamometer by using FEA, Research Journal of Engineering and Technology, Volume 4, Issue 2, pp. 70-79, Print ISSN :0976-2973. Online ISSN: 2321-581X, <https://www.indianjournals.com/ijor.aspx?target=ijor:rjet&volume=4&issue=2&article=006>

[16] D.P. Bhaskar, A. G. Thakur, I. I. Sayyad and S. V. Bhaskar, Numerical Analysis of Thick Isotropic and Transversely Isotropic Plates in Bending Using Fe Based New Inverse Shear Deformation Theory, International Journal of Automotive and Mechanical Engineering (IJAME), Vol. 18, Issue 3, 8882 – 8894 March 2020 ISSN: 2229-8649 E-ISSN: 2180-1606. DOI: <https://doi.org/10.15282/ijame.18.3.2021.04.0681>. (<https://journal.ump.edu.my/ijame/article/view/6108>) (Scopus)

[17] S. S. Ingle, S.V. Bhaskar, D.P. Bhaskar, I. I. Sayyad, P. N. Patil, Iot Based Monitoring of Experimental Setup of Insulating Powder, Shodhasamhita, Vol. .IX, Issue- II (IV), July-December 2022, ISSN 2277 – 7067. (Published in October 2022)

[18] Dhiraj P. Bhaskar, S.V. Bhaskar, I. I. Sayyad, S.S. Ingle, A.V. Damale, FE Approach To Investigate Bending Response in Composite Plates By New Theory, NeuroQuantology, Volume 20, Issue 16, pp. 4208-4213, DOI: 10.48047/NQ.2022.20.16.NQ880428, ISSN: 1303-5150 (Published in December 2022) (Scopus)

[19] Manasi B. Gangurde, Santosh. V. Bhaskar, Bhaskar Dhiraj Popatrao, Design and Analysis of Shell and Tube Type of Heat Exchanger, International Journal of Mechanical Engineering, Volume 7, Number 7, pp. 210-219, DOI: <https://doi.org/10.56452/2022->

[12-022](#), ISSN: 0974-5823 (Published in December 2022)

(Scopus)<https://kalaharijournals.com/ijmedec2022.php>

[20] Dhiraj P. Bhaskar, Santosh. V. Bhaskar, Bhaskar Dhiraj Popatrao, Numerical investigation of sandwich plate in bending by a new inverse shear deformation theory based on finite element analysis, Forces in Mechanics, Volume 13, pp. 210-219, DOI: <https://doi.org/10.56452/2022-12-022>, ISSN: 0974-5823 (Published in December 2022) (Scopus)<https://kalaharijournals.com/ijmedec2022.php>

[\[21\]](#) Santosh. V. Bhaskar, Dhiraj P. Bhaskar, Investigation of mechanical properties of nitrided-microblasted and TiCN coated D3 tool steel, Recent Advances in Materials Manufacturing and Machine Learning, 2024, pp. 45–52, e-Book ISBN 9781003450252

Papers presented in conferences:

[1] S. V. Bhaskar, Prashant Thorat, Finite Element Analysis of Inertia Dynamometer, International Conference on Emerging Intelligent Sustainable Technologies (ICMME 2013), March 2013.

[2] S. V. Bhaskar, Modeling & Design of Exhaust Manifold under Thermomechanical Loading, 2nd International Conference on Recent Trends in Engineering & Technology (ICRTET - 2013), February 2013.

[3] S. V. Bhaskar, D. P. Bhaskar, P. S. Shinde, Harmonic analysis of motorcycle chassis Frame (800cc) by using FFT analyzer, International Conference on Advances in Machine Design and Industry Automation ICAMDIA-07, on 10-12 Jan. 2007 at COE Pune -05 (MS).

[4] S. V. Bhaskar, D. P. Bhaskar, P. S. Shinde, Analysis and Optimization of Interference Fit for Shaft–Hub Connection Using FEM, International Conference on Advances in Machine Design and Industry Automation ICAMDIA-07, on 10-12 Jan. 2007 at COE Pune -05 (MS).

[5] P. S. Shinde, S. V. Bhaskar and D. P. Bhaskar, Wear analysis of surface coating materials, International conference on Industrial Tribology – ICIT- 2006 At IIISC Bangalore, Nov 30 – Dec 2, 2006.

[6] S. V. Bhaskar, P. S. Shinde, and D. P. Bhaskar, Wear Analysis of Advanced Low Friction Surface Coating Materials, International conference on Industrial Tribology – ICIT- 2006 At IIISC Bangalore, Nov 30 – Dec 2, 2006.

[7] S. V. Bhaskar, P. S. Shinde, and D. P. Bhaskar, Dynamic analysis of motorcycle chassis (800cc) by Finite Element Analysis, Engineering Design.in2007 at I.I.Sc., Bangalore, 9-11 August 2007.

[9] S. V. Bhaskar, P. S. Shinde, Theoretical & Experimental Analysis of Motor-cycle Chassis (800cc) Frame using FEM & FFT Analyser, Team-Tech 2008 at IISC, Bangalore, 22-24 September 2008.

[10] S. V. Bhaskar, P. S. Shinde, D. P. Bhaskar, Tribological Behavior of Low Friction Surface Coating Materials, AIM-2010 at Vasavi COE, Hyderabad, 25-26 Nov. 2006.

[11] S. V. Bhaskar, P. S. Shinde, Theoretical and experimental analysis of motorcycle chassis 800cc frame using FEM and FFT analyser, International Conference on Total Engineering Analysis and Manufacturing Technologies, Indian Institute of Science, Bangalore

- [12] S. V. Bhaskar, Analysis Of Multi Mass Vibration System International Conference On Science Engineering And Spirituality, SES College Of Engineering, Navalnagar, 1-2 April, 2010
- [13] S. V. Bhaskar, Shafting Alignment Using Strain Gauge Method Recent Trends In Mechanical Engineering, Bhujbal Knowledge City Nashik, 21-22 March, 2013
- [14] S. V. Bhaskar, Finite Element Analysis Of Inertia Dynamometer, International Conference On Metallurgical Manufacturing And Mechanical Engineering, IRD India, Pune, 23 March, 2013
- [15] Prashant Thorat, S. V. Bhaskar, Engine Mount Design In Passenger Cars, First International Conference On Emerging Trends In Electronics Computer And Mechanical Engineering, Marathwada Mitra Mandal Polytechnic, Thergaon, Pune, 2013
- [16] Investigation of Mechanical Properties of Nitrided-microblasted and TiCN coated D3 Tool Steel, 2nd International Conference on Recent Advances in Materials, Manufacturing and Machine Learning (RAMMML 2023-online), 02nd – 04th February 2023 (Book Chapter)
- [17] Santosh V. Bhaskar, Sachin S. Raj, Dhiraj P. Bhaskar, Drilling Process of AISI D2 Steel With a TiAlSiN-Coated Carbide Drill: An Experimental Investigation and a Statistical Approach, International Conference on Advanced Materials and Technologies for industry 4.0 ICAIMT 4.0, 23-24 March 2023.
- [18] Kuzmin Anton Michailovich, Sachin S Raj, Mastalygina Elena Evgenyevna, Santosh V Bhaskar, Vengatesan Krishnasamy, Optimization Of Technological Modifier Ratio On Barley Straw Powder Reinforced Thermoplastic Composite For Computer Hardware, 6th International Conference for Emerging Current Trends in Materials, Manufacturing, Management Practices And Construction Technologies (PECMACT 2K23), 28-29 April, 2023.

Research Profile URL

Google Scholar	https://scholar.google.co.in/citations?user=XUgjPfYAAAAJ&hl=en
Scopus	https://bit.ly/3J3MiWD (Scopus ID: 57213574547)
Orcid	https://orcid.org/0009-0005-9166-5407

Other Research Details

Ph D Guide ?Give field & University:	Yes, Mechanical Engg. at SPPU,Pune
Ph Ds/ Projects Guided:	-
Books Published	Book chapter published
IPRs/Patents	3 designs
Professional Memberships:	LMISTE
Interaction with professional institutions	Dipex 2013, 2 nd Prize, Name of Project: Manually operated Cotton Seed Plantation Machine.

Consultancy Activities			
Duration	Title of Activity	Issued Organization	Amount
Grants fetched			
Duration	Title	Issued Organization	Amount
2 Years	Tribological Behavior of Low Friction Surface Coating Materials	BCUD, Pune	1,50,000
Awards/Recognitions			
1. Recognized as ‘Top Performing Mentor’ in the NPTEL course ‘The Joy of Computing using Python’ in July-Dec. 2022.			
FACULTY DEVELOPMENT PROGRAMMES ATTENDED			
Name of the FDP / Workshop	Organization	Duration Month-Year	
One week FDP on ‘Research Opportunities in Vibration Engineering-2023’	Mechanical Dept, Sanjivani College of Engineering, Kopargaon	4-8 April, 2023	
The Joy of Computing using Python	Indian Institute of Technology, Ropar	January-April 2022	
A webinar on ‘Current and Future opportunities in Mechanical Engineering or Interdisciplinary Project Opportunities in Mechanical Engineering’	Indian Institute of Information Technology, Design and Manufacturing, Jabalpur	26 th March, 2022	
One-week Refresher Program on Role of ICT in Teaching Learning Process	IT. Dept. of SRES’s COE, Kopargaon	5-9 May, 2021	
Research Opportunities in Mechanical Engineering	Mechanical Dept, Sanjivani College of Engineering, Kopargaon	August 2021	

ICT Tools for Online Teaching	MBA Dept, Sanjivani College of Engineering, Kopargaon	26 th May, 2020
e-Content Development in the Changing Education Scenario	Sanjivani College of Pharmaceutical Research, Kopargaon	15-17 May, 2020
Smart Use of ICT using Wordpress	SNJB COE	11 th May, 2020
A two-day workshop on 'Advanced Finite Element Analysis'(AFEM-2012)	SVNIT, Surat	May 12-13, 2012
National Program on Technology Enhanced Learning	SITRC, Nashik	16 th March, 2012
Short term training program on 'Advances in Materials & Manufacturing Processes'	DBATU, Lonere	26-30 June, 2011.
Short term course on 'Finite Element Analysis & their Engineering Applications'	SSGBCOET, Bhusawal	25-30 October, 2010
One day workshop on "Effective Research Methodology" organized by	SRES's COE, Kopargaon	31 st January, 2010
Three days workshop of "about "Annual Planning, Water & Energy Management"	M.N. Deshmukh College, Rajur, Tal: Akole.	4-6 July,2008
Implementation of revised syllabus of the subjects Engineering Graphics-I & II"	PICT, Pune	4-5 April, 2008
Two days workshop on "Mechatronics with Simulation"	VPCOE, Baramati	May 23-24, 2007

Two days workshop on “Cam and Robotics”	S.R.E.S.College of Engg. , Kopargaon.	March 16-17, 2007
3-day training program on “AutoDesk INVENTOR Professional 11”	Mechanical Engg. Dept. of SRES's COE, Kopargaon	5-7 January, 2007
One day workshop on Mechatronics”	NDMVP's College of Engineering, Nasik	1 September, 2006

FACULTY DEVELOPMENT PROGRAMMES ORGANIZED

Name of the FDP / Workshop	Organization	Duration	Month -Year	Capacity
One week online Faculty Development Program (FDP) on ‘Patent Drafting and Filing’	Mechanical Dept. , SCOE Kopargaon	1 week (5-9 June, 2023)	June 2023	Coordinator
A 2-Day Online Workshop on ‘Multi Criteria Decision Making (MCDM) Optimization Techniques using MS Excel’ on	Mechanical Dept. , SRES COE Kopargaon	2 Days	9-10 June, 2020	178
A Two Day Workshop On “Robotics, IoT, and PLC”	Mechanical Dept. , SRES COE Kopargaon	2 Days	21-22 February, 2019	37
Finite Element Method For Engineering Applications (FEM-FEA 2016)	Mechanical Dept. , SRES COE Kopargaon	2 Days	22-23, February 2016	46
Design of Experiments and Optimization Techniques (DOE-OT-15)	Mechanical Dept. , SRES COE Kopargaon	5 Days	1-5 June, 2015	61
Two-day National Conference ‘Sanjivani Vision-2012’	Mechanical Dept. , SRES COE Kopargaon	3 Days	24-26 March, 2012	
Two days workshop on “Cam and Robotics	Mechanical Dept. , SRES COE Kopargaon	2 Days	16-17 March, 2007	40

INVITED LECTURES IN CONFERENCE/SEMINAR

Title of Lecture/ Academic Session	Title of Conference/ Seminar etc.	Organized By
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All Round Development of Youth	National Service Scheme Camp at Kokamthan, Tal- Kopargaon on 2 nd December, 2016	National Service Scheme, SCOE, Kopargaon
Skill Building Towards Employability	BE Mechanical students in February, 2015	Mech Dept., SCOE, Kopargaon
All Round Development of Youth	TE Mechanical students in February, 2018	Mech Dept., SCOE, Kopargaon

Social Media Links	
Personal Website	https://learnwithsvb.wordpress.com
Linked In Profile	https://www.linkedin.com/in/santosh-bhaskar-1366a143/?originalSubdomain=in
YouTube Channel	https://www.youtube.com/Techprosvbhaskar
Other (Blog)	https://learnwithsvb.wordpress.com/online-teaching-learning/

Any Other:

NPTEL Mentoring and Engineering Graphics Special Courses conducted				
EG	Mech Dept., Sanjivani COE Kopargaon	FE Students.	2001-2005	Total more than 300 students
NPTEL Course	The Joy of Computing using Python	TY Mech Students	Jan-April-2022	Awarded as Top Performing Mentor by NPTEL
NPTEL Course	Engineering Graphics and Design	FY Mech Students	Jan-April-2022	Awarded as Mentor by NPTEL