Dr. SHAILESH DAMODARRAO AMBEKAR



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Associate Professor,

Department of Mechanical Engineering, Government College of Engineering Chhatrapati Sambhajinagar(Aurangabad)

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Overview

A Ph.D. (Mechanical Engineering) with around 27 years of accomplished teaching, research and administrative experience. having a very good international exposure, author of several publications, mentor to Ph.D. & M.E students and having guiding influence in industry specific projects which successfully found solutions to problems facing units in the Automobile and Materials sector. Possesses excellent leadership and interpersonal relationship skills.

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r	vr	m	m	"

Born 01/02/1975

Gender Male

Nationality Indian

Languages English, Hindi, Marathi

Marital Status Married

Professional Qualifications

Ph.D. (Mechanical Engg.) awarded in Dec 2020, From College Of Engineering Pune, SPPU, Pune Maharashtara, India

Title of Thesis: Design optimization of FRT Hybrid Nano composite for Maximizing Flexural Strength and minimizing wear rate

Post- M.E. (Mechanical Engineering) from Government engineering College Aurangabad India in 2007 with **70.10 % marks (Distinction)**

Graduation B.E. (Mechanical Engg.) from Amaravati Unviersity Amravati with

66.50% marks (First Division) in 1995

Trainings Atte	nded	
Subject	Venue	Period
A Course On Engineering Optimization, Indian Institute	Mumbai,	05-06-2000
Of Technology, Bombay,		(01 Week)
One Day Workshop On Revised Syllabus On EME And	MIT Aurangabad	9 th August 2002. (01
EG		Week).
One Day Workshop On Teaching Methodology And	SE Mechanical	13 th August
Scope Of Syllabus For Production Processes And	Production	2003 (1 Day).
Manufacturing Technology	Organized At	
	COE Osmanabad	
A Course On Renewable Energy	GEC Aurangabad	16-01-2007 To
		20-01-2007
		(01 Week).
Attended One Month Training Program On CNC	Swagati	05/05/2008 To
Programming And Machining	Engineering,	07/06/2008 (One
	Aurangabad	Month-04 Weeks).
National Workshop On Emerging Trends In Automobile	NIT,Warangal	3-5 July 2008
Engg		(3 Days).
A Course On Building A Winning Team, Under SAE	ADIT Vallabh	11 th To 15 th
Collegiate Chapter	Nagar	October 2008
		(01 Week).
A Course On Diesel Engine Management	IIT Kanpur	18/06/2009 To
		22/06/2009
		(01 Week)
National Workshop On Recent Advances In Eco-	IISC, Banglore	From 8-9
Friendly Lubricants		April 2010.
		(02 ays).

Pedagogy	GEC	16/05/2011 To
redugogy	Aurangabad	21/05/2011 (01
	Turangabad	Week).
Advance Engine Combustion And Diagnosis	IIT Kanpu	23/06/2011 To
Advance Engine Combustion And Diagnosis	III Kanpui	28/06/2011 (01
		Week).
Skill Matrix Enhancement And Effective Technical	GEC Aurangabad	28/11/2011
	GEC Aurangabad	
Learining		To
		09/12/2011
		(02 Week)
Engineering Optimization Techniques And Its	GEC Aurangabad	02/01/2012
Application In Research Assurance		То
		12/02/2012
		(02 Week)
Manufacturing Excellence Through Quality	IIT Roorkee	09/07/2012
		То
		13/07/2012
		(01 Week)
		, ,
Course On Automotive Control And Emmition	SCOE Pune	8-12 October
Technologies		2012(01
		Week)
Genetic Algorithm And Neuro Fuzzy Application In	GEC Aurangabad	17/12/2012
Engg.		То
86		21/12/2012
		(01 Week)
		(0 2 2 2 2 3)
Product Design And Development	Iit Madaras,	21/01/2013
	Chennai	To
		26/01/2013
		(01 Week)
		(or week)
Challenges In Measurements Of Signal And Two Phase	IIT Roorkee	24/06/2013 To
Flow Recent Trends		28/06/2013 (01
		Week)
Bio-Techniques For Pollution Control And Resources	IIT Guwahati	1/07/2013 To
Recovery		05/07/2013 (01
		Week)
Network Security	GEC Aurangabad	7-11 October 2013
I	1	

		(01 Week)
Catia, Indo German Tool Room	Aurangabad	02 nd -17 th December
		2013 (02 Week)
Computer Aided Design And Analysis Of Machine And	NIT Jaipur	23 rd December To
Structural Elements		27 th 2013 (01 Week)
Ansys	Indo Germen Tool 30 th January To 15 th	
	Room Aurangabad February 2014 (2	
		Week)
Fundamentals Of Tribology	National Institutes	26 th To 30 th May
	Of Technology	2014 (01 Week)
	Harimpur	
Maitenance Management In Industries	National Institute	25 th To 29 th
	Of Technology	December 2014 (01
	Harimpur	Week)
Computer Aided Product Design	Ssn College Of	15 th To 27 th June
	Engineering	2015 (02 Weeks)
	Chennai	
Recent Trends In Energy Research	BATU Lonere	07 th To 11 th
		December 2015 (01
		Week)
Computation And Optimization In Engineering	National Institute	28 th December 2015
	Of Technical	To 8 th January 2016
	Teachers Training	(02weeks)
	And Research,	
	Kolkata	

Professional Experience

From	То	Name of Organization	Designation
07/01/2011	Till Date	Government college of Engineering, Aurangabad	Asst. Professor
1/08/2007	06/01/2011	MIT(E) A'bad	Asst. Professor
1/07/2007	31/07/2007	MIT(E) A'bad	Sr.Lecturer
3/09/1997	30/06/2007	M I T (E) A'bad	Lecturer
14/2/96	30/04/97	Anurang Engg Pvt Ltd A'bad	Trainee Engineer

Thesis Supervision

M.Tech. Thesis

- 1. Effect of Cryogenic treatment on carburized 20MnCr5 Gear material 2013-14, Government College of Engineering Aurangabad.
- 2. Optimization of cutting parameters for surface roughness in end milling process and MRR and machining time during turning process of Aluminium 26 Alloy in 2013-14, Government College of Engineering Aurangabad.
- 3. Optimization of weight of connecting rod (C70S6 material) using ANSYS and FEMFAT 2014-15, Government College of Engineering Aurangabad.

Accomplishments

(Govt. Engineering College Aurangabad)

- 1. Working as Gymkhana Vice President of the College
- 2. Working as SAE BAJA -2023-24 Faculty Coordinator
- 3. Working as Departmental PG coordinator from Jan 2023
- 4. Working as Departmental MESA faculty Advisor from Sept 2021
- 5. Working as Departmental Testing and consultancy Coordinator from Sept 2021
- 6. Worked as Training and Placement Officer of Government college of engineering, Aurangabad since Sept 2020 to 31st Dec 2022
- 7. Worked as Training and Placement Officer of Government college of engineering, Aurangabad since Feb 2015 to July 2016
- 8. Worked as Inspection Committee Member for the Engineering college Inspections constituent by Regional Directorate Technical education, Aurangabad.
- Worked as Chief Coordinator of External Examination Like UPSC, MPSC, DTE, Staff Selection Commission etc Examination for the centre as Government college of engineering Aurangabad.
- 10. Worked as Vehicle In Charge for Government College of engineering Aurangabad.
- 11. Worked as Chairman of Vigilance Squad for the Dr.BAMU Aurangabad.
- 12. Worked as Member of Affiliation Committee for the Dr. BAMU Aurangabad.
- 13. Worked as PRO committee member for the visit Hon'ble Chief Secretory, ministry of HRD, GOV of India.
- 14. Worked as faculty advisor student for competition such as SAE BAJA, SAE Supra etc
- 15. Worked as various port folios in charge/ member in state level FE admission counseling round and state level direct second year admission.
- 16. Worked as Dept controller of Examination.
- 17. Worked as member of different committees at college and departmental level like Lab/ stock/ document verification, ME admission etc.

- 18. Worked as MESA Faculty co-ordinator for four years.
- 19. Working as dept coordinator for industry institute interaction activities / Minor Civil work In charge under TEQIP 2 activities.
- 20. Worked as technical zonal and master trainer and counting assistance for national parliamentary elections, state legislative election and Aurangabad Gram Panchayat election in the last 4 years.
- 21. Worked as coordinator for the state level training programme under DTE funds.
- 22. Worked as paper setter and examiner in the college and outside of the college as an External Examiner for UG/PG courses.
- 23. Arranging industrial tours for the student
- 24. Life member of ISTE and institute of engineers
- 25. Effective implementation of curricula for the concerned courses/ subject
- 26. Planning and delivering class room and laboratory instructions
- 27. Students assessment and evaluation including tasks related with mid term tests and end term examinations.
- 28. Design and development of learning resources.
- 29. Working as lab in charge for Auto Lab planning setting of laboratories.
- 30. Laboratories and academic facilities development
- 31. Plan and execute students development activities
- 32. Guidance and counseling to students
- 33. Participate in professional activities through interaction with industries, consultancy, testing, continuing education and training, industry sponsored project, entrepreneurship development, research.
- 34. Keep abreast of the newer knowledge, skill and technology through self up graduation and dissemination of knowledge through articles, books, journals and seminars etc.'
- 35. Self development through qualification improvement, experience enrichment professional activities and interaction with professional bodies

Publications

International Journals

- Dry Sliding Wear behavior of Cryogenic Treated 20MnCr5 Alloy Steel
 SS Kadam, SD AmbekarInternational Journal of Engineering Science Invention
 ISSN (Online): 2319 6734, ISSN (Print): 2319 6726 www.ijesi.org Volume 3
 Issue 5 May 2014 PP.67-72
- Experimental Analysis of Material Removal Rate in Drilling of 41Cr4 by A Taguchi's, S.A.Syed, S.D.Ambekar, Vol-01, Issue 04, July 2015.
- Design of Connecting Rod for Light Weight Using C70S6 Material, Deepak G. Gotiwale and Shailesh D. Ambekar, ISSN 2319-5924 Vol 3, Issue3, 2014, pp44-52.

- Dynamic Effect Analysis And Flexural Storage Modulus Optimization Of CFRP Hybrid Nano Composites Using RSM, Shailesh D. Ambekar, Vipin Kumar Tripathi, Huynh Tan Hoi, VOLUME 9, ISSUE 08, AUGUST 2020.
- Investigation of the Effect of Nano Particles on Visco-elastic Behaviour of CFRP Hybrid Nanocomposites, Shailesh D. Ambekar*, Vipin K. Tripathi, ISSN 0976 – 6693.
- Comparative study of effect of Cryogenics heat treatment and Case hardening on the Wear Property of 20MnCr5, S. D. Ambekar1, a, Sandeep Kadam2, b, S. A. Sonawane3, c, ISSN: 1662-7482, Vol. 798, pp 435-439.
- Cutting parameters optimization for surface finish and machining time in turning of OHNS O1 grade hardened tool steel for near dry machining, S.A. Haseeb, S.D. Ambekar, Int Res J Eng Technol 3 (8), 2321-0613.
- The Multi-objective Optimization Design Approach for Carbon Fiber Hybrid Nanocomposites Containing NanoClay and NanoZnO Particles by Using OptiComp, SD Ambekar, VK Tripathi, Journal of Bio-and Tribo-Corrosion 6 (3), 1-15
- Wear Behaviour of Cryogenic Treated M2 Tool Steel under Dry Sliding Condition, SA Sonawane, VK Tripathi, SD Ambekar, Applied Mechanics and Materials 798, 395-401
- Influence of Process Parameters on Depth of Penetration In GMAW Process by Using Taguchi Method, SD Ambekar, SR Wadhokar, International Journal of Science and Research 4 (5)
- Optimization of flexural strength of CFRP hybrid nano composites containing nanoZnO and nanoclay particles, Shailesh D. Ambekar, Vipin Kumar Tripathi, Huynh Tan Hoi, ISSN 2277-8616, VOLUME 9, ISSUE 08, AUGUST 2020.
- Ambekar. SD," Experimental Analysis of Material Removal Rate in Drilling of 41Cr4 by a Taguchi's Approach, SS Ahmed, Journal of Engineering Research and Applications 5 (5), 28-33
- Dry Sliding Wear Behavior Of Carburized 20MnCr5 Alloy Steel, SS Kadam, SD Ambekar, Int. J. Eng. Sci. Invent 3, 67-72.
- Design of Connecting Rod For Weight Reduction Using C70S6 Material, DG Gotiwale, SD Ambekar, International Journal of Scientific & Engineering Research 5 (5), 1253-1260.
- A review on optimization of cutting parameter for surface roughness, material removal rate and machining time of aluminium LM-26 alloy, HR Ghan, SD Ambekar, Int. J. Res. Aeronaut. Mech. Eng 2 (2), 23-28
- Parametric Optimization of Gas metal arc welding process by using Taguchi method on stainless steel AISI 410, PROF. S. D. AMBEKAR, SUNIL R.WADHOKAR, Vol. 3, Issue: 1, January: 2015 (IJRMEET) ISSN: 2320-6586.
- Optimization of cutting parameter for Surface Roughness, Material Removal rate and Machining Time of Aluminium LM-26 Alloy, H. R. Ghan, S.D.Ambekar, Volume 3, Issue 2, March 2014, ISSN: 2319-5967
- Optimization and analysis of wear rate of CFRP-nanoZnO/nanoclay hybrid composites using RSM, VK Tripathi, S Ambekar, Journal of Bio-and Tribo-Corrosion 5 (4), 1-13
- A review on influence of nano particles on the wear behaviour of epoxy resin powder coatings" Vishal Arke, U. V. Hambire and S. D. Ambekar, Advances and

- Applications in Mathematical Sciences Volume 21, Issue 9, July 2022, Pages 4991-4997 © 2022 Mili Publications, India
- Design and cfd simulation of savonius type vertical axis airstream rotor in ansys fluent onkar dhakne, dr. Shailesh ambekar,dogo rangsang research journal ugc care group i journal issn: 2347-7180 vol-13, issue-1, no. 3, january 2023
- Multi-objective optimization and manufacturing of low-cost vertical axis wind turbine rotor for national highway in india for power generation, Onkar Dhakne, Dr. Shailesh Ambekar, Dogo Rangsang Research Journal UGC Care Group I Journal, ISSN: 2347-7180 Vol-13, Issue-5, No. 5,Ma23

International and national Conference

 Comprehensive Review on Effect of Zinc, Chromium, Titanium Nanoparticle Coatingon Mechanical Properties of EN24T Steels, Mirza Adnan Baig, S.D. Ambekar and Umesh V. Hambire, 7th International Conference on "Computational Optimization, Modelling and Simulation: Recent Trends and Challenges", (Shaastrarth-2022), 25 & 26 March, 2022, Rungta College Of Engineering And Technology, Bhilai

Ph.D. Thesis

<u>Title:</u> Design optimization of FRT Hybrid Nano composite for Maximizing Flexural Strength and minimizing wear rate

Supervisor: Dr. V.K.Tripathi

Department of Mechanical Engineering., College of Engineering, Pune,

Shivajinagar,

Pune- 411005

Membership of Professional Bodies

- Life Member of Indian Society for Technical Education
- Member of The Institution of Engineers (India) (M-135094-8)

Date: Sept 21st 2021

Place : Aurangabad (Shailesh Damodarrao Ambekar)