


Name of Teaching Staff:		Dr. Bhosale Kailash Changdeorao			
Designation:		Associate Professor			
Department:		Mechanical Engineering			
Date of joining	29/07/2009	Date of Retirement	20/05/2037		
Date of Birth	21/05/1977	Type of association	Permanent		
Unique ID:					
E Mail ID :		bhosalekailasmech@sanjivani.org.in			
Qualification with Class/Grade :		U.G.	P.G.	PhD	
		B.E.(Mechanical)	M.E. (Mechanical Design)	PhD Production Engineering	
Total experience in years:		Teaching: 18 years	Research:	Industry: 9 years	Others:
Area of Specialization		Optimization, Production planning and scheduling			
Courses Taught		Strength of Materials, Prodcution Technology, Engineering Graphics			
Papers published:		<div>1) Bhosale, K.C., Pawar, P.J. Investigations into effect of waiting time in integrated machine scheduling and automated guided vehicles scheduling. <i>Int J Interact Des Manuf</i> (2025). https://doi.org/10.1007/s12008-025-02248-z.</div> <div>2) Bhosale, K.C., Pawar, P.J. (2024). Material Flow Optimization of a Machine Loading Problem. In: Venkata Rao, R., Taler, J. (eds) <i>Advanced Engineering Optimization Through Intelligent Techniques. AEOTIT 2023. Lecture Notes in Electrical Engineering</i>, vol 1226. Springer, Singapore. https://doi.org/10.1007/978-981-97-4654-5_15.</div> <div>3) Bhosale, K.C., Pawar, P.J. Material flow optimisation of production planning and scheduling problem in flexible manufacturing system by real coded genetic algorithm (RCGA). <i>Flex Serv Manuf J</i> 31, 381–423 (2019). https://doi.org/10.1007/s10696-018-9310-5.</div> <div>4) Kailash Changdeorao Bhosale, Padmakar Jagannath Pawar, Production planning and scheduling problem of continuous parallel lines with demand uncertainty and different production capacities, <i>Journal of Computational Design and Engineering</i>, Volume 7, Issue 6, December 2020, Pages 761–774, https://doi.org/10.1093/jcde/qwaa055 .</div> <div>5) K.C Bhosale, P.J. Pawar, Material Flow Optimisation of Flexible Manufacturing System using Real Coded Genetic Algorithm (RCGA), <i>Materials Today: Proceedings</i>, Volume 5, Issue 2, Part 2, 2018, Pages 7160-7167, ISSN 2214-7853, https://doi.org/10.1016/j.matpr.2017.11.381.</div> <div>6) Bhosale, K.C., Pawar, P.J. (2020). Integrated Production Planning and Scheduling for Parallel Production Lines. In: Venkata Rao, R., Taler, J. (eds) <i>Advanced Engineering Optimization Through Intelligent Techniques. Advances in Intelligent Systems and Computing</i>, vol 949. Springer, Singapore. https://doi.org/10.1007/978-981-13-8196-6_59.</div> <div>7) Pawar, P.J., Bhosale, K.C. Flexible Job Shop Scheduling for Press Working Industries with Operation Precedence Constraint. <i>Process Integr Optim Sustain</i> 6, 409–430 (2022).</div>			

	https://doi.org/10.1007/s41660-022-00222-w . 8) Bhosale, K.C., Pawar, P.J. (2022). Material Flow Optimisation in a Manufacturing Plant by Real-Coded Genetic Algorithm (RCGA). In: Ghosh, D., Khanra, A., Vanamalla, S.V., Hamid, F., Sengupta, R.N. (eds) Studies in Quantitative Decision Making. Asset Analytics. Springer, Singapore. https://doi.org/10.1007/978-981-16-5820-4_5 . 9) Sonam M Gujrathi, Bhosale, K.C. Integration of Condition Based Maintenance With Energy Efficiency, <u>Studies in Science of Science</u> , Vol. 43 No. 6 (2025) 10) Sonam M Gujrathi, Bhosale, K.C., Energy-Efficient Condition-Based Maintenance: A Smart Framework for Predictive Decision-Making in Industry 4.0, Journal of Information Systems Engineering and Management, 2025, 10(53s)			
Papers presented in conferences:	National: 00 International: 06			
Ph D Guide ? Give field & University:	Yes. Mechanical Engineering, Savitribai Phule Pune Engineering			
Ph Ds/ Projects Guided:	Ph Ds: Nil Projects PG : 06 UG: 15			
Project carried out	2			
	Title of the Project	Funded by	Year	Sanctioned Amount (Rs.)
	Optimisation of heat balance in resistance spot welding and improvement of fatigue life of welded joints.	Savitribai Phule Pune University	2014-16	1,70,000
	Development of standard process to reduce processing time of assembly line	GIZ-MASSIA Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH and The Marathwada Association of Small Scale Industries and Agriculture (MASSIA)	2018-19	40,000
Patents (Filed/Granted):	Nil			
Technology Transfer	Nil			
No of Books published with details	Name of the Book:	Publisher:	ISBN:	Year :
	Nil	Nil	Nil	Nil
Professional Memberships:	LMISTE, MIE			
Consultancy Activities:	Nil			
Awards:				
Grants fetched:	BCUD			
Interaction with professional institutions:	Worked as Resource person for FDP and expert lectures, Reviewer & Session Chair,			

Research Proposal Sanctioned

- AICTE has sanctioned a proposal of Rs. 90 Lakhs to set up IDEA lab at Sanjivani Rural Education Society's Sanjivani College of Engineering, Kopargaon. Savitribai Phule Pune University, Pune.

Research Proposal Submitted

1. Submitted research proposal to DST under FIST-2025 with reference no. duration 2025-27.
2. Submitted research proposal to DST- iTBI (Inclusive Technology Bussiness Incubator) of Rs. 5 Crores with reference no. NEB/ NIDHI ITBI/2025/1055 duration 2024-29.
3. Submitted research proposal to DST under FIST-2024 with reference no. SR/FST/ET-/2024/1465 duration 2024-29.
4. Submitted research proposal to DST on topic "Effortless walking and seating system for elderly" under Division :SEED, Programme or Scheme : Technology Interventions for Disabled and Elderly (TIDE) **Rs. 75.57 Lakhs** duration 2023-25.
5. Submitted research proposal to DST on topic "Development of cluster of high tech laboratories at Rural areas", under division :R & D Infrastructure, programme or Scheme : Sophisticated Analytical and Technical Help Institutes (SATHI) of **Rs. 65.67 Crores** duration 2023-27.
6. Submitted research proposal to DST on topic "Recycling of animal waste into user friendly organic manure/Fertilizer" duration 2023-24.
7. Submitted research proposal to DST of **Rs. 35,70,409/-** under FIST- PROJECT (Level-0) with reference No. SR/FST/ET-/2022/1108 duration 2022-2027.
8. Submitted research proposal to DST under FIST- PROJECT (Level-0) duration 2021-2026.

PG students Guided:05

Sr. No.	Name	Topic	Year
1	Salke P. S.	Optimization of Process Parameter in Resistance Spot W Unequal Thickness Sheet	2015-16
2	Marathe M.A.	Design & Analysis of Different Materials For Hydraulic Milling Fixture	2016-17
3	Pungal A. M.	Relative analysis of helical compression spring for conventional and composite material at different loading conditions	2017-18
4	Ugale P.A.	Finite Element Analysis of Bonded Joints in Composite	2017-18
5	Wagh V. S.	Improvement of hammer life by laser cladding	2020-23

Best paper award:

Best paper award for paper titled "Material Flow Optimisation for Multistage, Multiproduct Parallel Lines by Real Coded Genetic Algorithm (RCGA)", International conference on Manufacturing Excellence (ICMAX) at K.K. Wagh Institute of Engineering Education & Research, Nashik, Savitribai Phule Pune University, Pune, Maharashtra, India. 15-16 Feb, 2019.

List of paper published in Conferences (National/International) and Journals

Sr No	Name of Conference	Title of paper	Organizing Institute	Date / period
1	Fourth International Conference On Advanced Engineering Optimization Through Intelligent Techniques (AEOTIT)	Material flow optimization of machine loading problem	Sardar Vallabhbhai National Institute of Technology (SVNIT), Surat, Gujarat, India	September 28-30, 2023
2	3 rd International convention on green environment technology & entrepreneurship through innovation (ICGETEI-2023)	Development of standard process to reduce processing time of assembly line	Amity University, Rajasthan	August 9-11, 2023
3	3 rd International convention on green environment technology & entrepreneurship through innovation (ICGETEI-2023)	Material flow optimization of multistage, multiproduct parallel lines	Amity University, Rajasthan	August 9-11, 2023
4	3 rd International convention on green environment technology & entrepreneurship through innovation (ICGETEI-2023)	Application of fuzzy logic method for optimization of spot welding parameters of stainless steel (AISI 304)	Amity University, Rajasthan	August 9-11, 2023
5	3 rd International convention on green environment technology & entrepreneurship through innovation (ICGETEI-2023)	Prediction of welding parameters of AISI 304 steel by fuzzy logic	Amity University, Rajasthan	August 9-11, 2023
6	XXIII Annual International Conference of the Society of Operations Management, (SOM 2019),	Material Flow Optimisation of a Capacitated Vehicle Routing Problem in a manufacturing plant by using Real Coded Genetic Algorithm	Indian Institute of Technology Kanpur, INDIA	December 20 – 21, 2019
7	International conference on Manufacturing Excellence (ICMAX)	Material Flow Optimisation for Multistage, Multiproduct Parallel Lines by Real Coded Genetic Algorithm (RCGA),	K.K. Wagh Institute of Engineering Education & Research, Nashik,	15-16 Feb, 2019.
8	International Conference On Advanced Engineering Optimization Through Intelligent Techniques (AEOTIT)	Material flow optimisation of flexible manufacturing system using real coded Genetic Algorithm (RCGA),	Sardar Vallabhbhai National Institute of Technology (SVNIT), Surat, Gujarat, India	August 03-05, 2018
9	International conference on Manufacturing Excellence (ICMAX)	Optimisation of operation allocation problem in flexible manufacturing system by Real Coded Genetic Algorithm,	K.K. Wagh Institute of Engineering Education & Research, Nashik,	3-4 March, 2017
10	Internal Conference on Advanced & Agile manufacturing (ICAM-ASD) – 2016	Material flow optimisation of flexible manufacturing system using real coded Genetic Algorithm (RCGA)	Shri Guru Gobind Singhji Institute of Engineering & Technology, Nanded, India.	6th - 7th October, 2016

Industry Training attended

Sr No	Organizing institute	Title of course	Date/period
1	Johnson Controls India Pvt. Ltd. Pune	Train the trainer- Building Management System	April 24-28, 2023

Organization of STTP, Workshops

Sr No	Organizing institute	Name of event	Date/period
1.	SRES COE, Kopargaon	Training supporting staff for NBA Accreditation	25/03/2023
2.	SRES COE, Kopargaon	Analysis of engineering systems using Creo	13-24 November, 2022
3.	SRES COE, Kopargaon	IGTR Aurangabad certified for 1-day workshop on “IoT using Arduino”	February 15, 2019
4.	SRES COE, Kopargaon	IGTR Aurangabad certified CATIA course for Mechanical Engineering Students	July 28- 04 August, 2016
5.	SRES COE, Kopargaon	One day National level workshop on Skill Development	September 14, 2015
6.	SRES COE, Kopargaon	IGTR Aurangabad certified Ansys course for Mechanical Engineering Students	July 17- August 01, 2015
7.	SRES COE, Kopargaon	Guest lecture on “ RAC and its industrial applications” by Mr. Anil Tribhuwan	July 04, 2015
8.	SRES COE, Kopargaon	IGTR Aurangabad certified CATIA course for Mechanical Engineering Students	June 05- June 18, 2015

STTP, Workshops conducted

Sr No	Organizing institute	Name of event	Date/period
1.	SRES COE, Kopargaon	Skill Development Course on “Use of Excel in day-today life”	November 16, 2022
2.	SRES COE, Kopargaon	Online course on “Use of Excel in day-today life”	November 2019
3.	SRES COE, Kopargaon	The use of Excel in Engineering Applications for Staff	December 12-14, 2018
4.	SRES MBA Department	Data Analytics by using Excel	September 2-4, 2017

5.	SRES COE, Kopargaon	Microsoft Excel Basics for SE Mechanical students	August 10, 2017
6.	SRES COE, Kopargaon	Microsoft Excel Basics for Mechanical Engineering students	March 15-16, 2016
7.	SRES COE, Kopargaon	Excel course for SE students	August 5 & 7, 2015

FDP/ Training program attended

Sr No	Organizing institute	Name of event	Date/period
Two Weeks Workshop			
1	I.I.T. Kharagpur	Materials Engineering and industrial Applications: hybrid nanocomposites for photonics, energy and electronic devices	Nov. 11-22, 2013
One Week Workshop			
1.	AI Innovations and MATLAB Solutions	PCET'S , PIMPRI CHINCHWAD COLLEGE OF ENGINEERING & RESEARCH ,RAVET.	23 - 28 September 2024
	Educational Organizations Management Systems	Sanjivani College of Engineering, Kopargaon	22nd and 23rd March 2024
	Maharashtra State Faculty Development Academy	Sensitization on Innovation and cutting edge technologies	27/06/2022-01/07/2022
2.	National Institute of Technical Teachers Training and Research, Chandigarh	Ergonomics and Product Design	18/07/2022 to 22/07/2022
3.	IIT Kharagpur	Advanced CAD CAM applications in CNC Machining	April 20-26, 2018
4.	SRES COE, Kopargaon	Design of experiments and optimisation techniques	June 1-5, 2015
5.	SVNIT Surat	Advanced Engineering optimisation Through Intelligent Techniques	Jan. 27-31, 2014
6.	SVNIT Surat	FEM with MATLAB	May 6-10, 2013
7.	Sinhgad Academy of Engineering, Pune	Research methodology for innovative research in Mechanical Engineering	April 16-21, 2012
8.	SRES COE, Kopargaon	Five days Mission 10X workshop	December 19-23, 2011.
9.	VIIT, Pune	Computer Aided drafting & programming using Autodesk technologies	May 19-May 23, 2008.

Sr No	Organizing institute	Name of event	Date/period
One Day / Two Days Workshop			
1.	Autofina, Pune	Industrial Robotics	03/09/2022

2	K.K. Wagh Institute of Engineering Education & Research, Nashik	Artificial intelligence: Research and applications	6-7 January, 2018
3	IIW, Kolkata	National Welding Seminar	December 15-17, 2016
4	K.K. Wagh Institute of Engineering Education & Research, Nashik	Soft computing	8-10, December, 2016

