

Somaiya Vidyavihar University

Name: Dr Sangita Nitin Bansode		E-mail: sangeetabansode@somaiya.edu		
Contact No: 9819090169 / 66449517				
Department/Section: Mechanical Engineering				
College: K J Somaiya College of Engineering				
DOJ 04/02/1999	Somaiya:	Career Experience: 30 Yrs	Industry Experience: Nil	Teaching Experience: 30 Yrs
Present Academic Designation: Associate Professor			Present Administrative Designation:	

Area of research/specialization and Courses Delivered
<p>Research domain/interests/areas</p> <ol style="list-style-type: none"> 1. Automation 2. Robotics 3. FEA 4. Additive Manufacturing 5. Casting <p>Courses Delivered</p> <ol style="list-style-type: none"> 1. Computer Aided Engineering 2. Robotics and AI 3. Additive Manufacturing 4. Finite Element analysis 5. CAD / CAM / CIM 6. Production Engineering 7. Industrial Engineering 8. Manufacturing Processes 9. Computer Aided Manufacturing

Recognition as a teacher by any University	UG: Yes	PG: Yes	Ph.D : Yes
<p>Details of Recognitions</p> <ol style="list-style-type: none"> 1. UG – Mumbai University 2. PG - Mumbai University 3. PhD - Somaiya University 			

Education					
Examination	Name of the Degree	University/Board	Institute/College	Year	CPI/SPI/ %Marks
Ph.D	Doctorate in Mechanical Engg.	Mumbai University	VJTI - Matunga	2020	
PG	M.Tech in CAD/CAM & Robotics	Mumbai	VJTI , Matunga	2006	9.0
UG	Bachelor of Production Engineering	Marathwada University	JNEC College of Engineering	1989	68 %
Diploma	Mechanical Engineering	DTE Mumbai	Government Polytechnic Aurangabad	1986	68 %
NET/SET/Other					

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Notable Experience Details					
Sr. No	Name of the organization	Designation	Date of Joining	Date of Leaving	Experience (Years)
1.	Pd. V.V.Patil COE A, Nagar	Lecturer	Aug 92	Aug 96	04
2.	K. J. Somaiya College of Engineering	Associate professor	04/02/99	Still working	25

Research Accomplishments and Projects		
No of students pursuing Ph.D as on date: 02		No of students completed Ph.D as on date:NA
No of students completed PG thesis / Project work as on date:		No of students / groups completed UG projects as on date:
Publications Total: 13	Number of Peer review Journal papers: 5	Number of Conference papers:4

Details of Publications:

International Journals

Journal Papers

1. Sangita Bansode, V.M.Phalle, Shankar S.Mantha.Taguchi Approach for Optimization of Parameters that Reduce Dimensional Variation in Investment Casting. Archives of Foundry Engineering. - ISSN (1897-3310) Volume 19(1), **2019** pp. 5 – 12. [Emerging Sources Citation Index]
2. Sangita Bansode, V.M.Phalle, S.S.Mantha. Optimization of process parameters to improve dimensional accuracy of investment casting using Taguchi approach. Advances in Mechanical Engineering –Volume 11(4), **2019** pp. 1-12. [Science Citation Index Expanded]
3. Sangita Bansode, V.M.Phalle, S.S.Mantha. Influence of Slurry Composition on Mould Properties and Shrinkage of Investment Casting. Transactions of the Indian Institute of Metals. Transactions of the Indian Institute of Metals ISSN 0972-2815. DOI 10.1007/s12666-020-01872-5
4. A Mobile Semi-Autonomous Robot For Soil Sampling: TechRxi (<https://www.techrxiv.org>). 19-11-2021 / 23-11-**2021** Author Vistasp Edulji1y, Atharva Pradhan1y, Jay Shah1y, Sumedh Soman1y and Sangita Bansode1*(Published)
5. Development of A/C Duct inspection and cleaning Robot prototype using Internet of Things (IOT) -International conference in Advancements in Design and Tribology (ICADT-**2021**) 17th -18th December, 2021- SVNIT– Neeraj Bhonde and Sangita Bansode (Presented)
6. Design of smart transformer Breather and analysis using Ansys Fluent – 43 World conference on Applied science engineering and technology – world conference – Goa India – Pritih Zanjad and Sangeeta Bansode – 29 and 30 December **2022**. (Presented)
7. Parameter Optimization for improving Digital Light Processing (DLP) Component Properties – Archana Pancharya and Sangita Bansode- **2023**- International journal of Engineering research in Mechanical and Civil engineering (IJERMCE). (Published)

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8. 3D bioprinting: A systematic review for future Research Direction : Indian Journal of Orthopedics (2023): Kavita Kumari Thakur , Ramesh Lekuwale , sangita bansode , rajech Pansare (Published)

National Journals

9. Sangita Bansode, V.M.Phalle, S.S.Mantha. Productivity enhancement in investment casting foundry using automation technique in shelling operation. Industrial Engineering. ISSN/ISBN (2581-4915) Volume 12 (7), 2019.

Conferences

10. Rapid prototype a rapid approach for investment casting. National Conference, Saboo Siddikiq College of Engineering, 3-5 Jan 2013, Byculla, Mumbai.
11. Influence of feeders in distortion of investment casting, 62nd Indian Foundry Congress, 7-9 Feb 2014, Gandhi Nagar, Ahmedabad.
12. Optimised feeding system for investment casting to reduce dimensional variation, 63rd Indian Foundry Congress, 28 Feb-1 March, 2016, Greater Noida, Delhi.
13. Optimized design of feeding system for complex steel (CF8) investment casting to improve quality and productivity- International conference. ATSMDE, 21-22 Dec 2017, VJTI, Matunga, Mumbai.
14. CFD analysis of thin wall pump impeller for sustainable manufacturing and energy management - International conference on technologies for energy agriculture and health care (ICTEAH 2024) 15-16 April 2024. KJSCE, Vidyavihar.

Books/Book Chapters

Patents/Copy Rights

No of Research / consultancy / projects completed: Rs:	No of Research / consultancy / projects on-going: Rs:	No of Research / consultancy / projects on applied as on date: Rs:
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Details of Research / consultancy / projects:

Completed :NA

On-going: NA

Applied : NA

IPR/ Copyrights :

FDPs/Seminars/Workshops/Training Programs Attended/ Organized/ Delivered

Attended

1. STTP on Fault diagnosis of rotary machines and FEA
2. work shop on E - Foundry , Casting design and simulation
3. STTP on Advance Machine Design
4. Work shop on Industrial Automation
5. Work shop on Smart manufacturing and IOT

Organized and attended

1. Software training for 3D Printing and design
2. Nondestructive training for faculty
3. ANSYS used for Additive manufacturing
4. Adams training for faculty
5. Dynamic analysis training
6. Ansys used for Additive manufacturing
7. Computational fluid dynamics
8. Non Destructive Testing : Integrating Legacy and Emerging New Technique
- 9.

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Delivered

1. Lecture on DPT in NDT STTP

Notable Key Scholastic Achievements

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| 1. | Sanctioned grant of 10000 Rs for interdepartmental UG project on Robotics |
| 2. | Sanctioned grant of 10 lac for Ph D student project : bio printing (co guide) |

Notable Positions and Responsibility

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| 1. | Convener- Faculty grievance cell convener |
| 2. | Convener- NAAC criteria 2 convener |
| 3. | Coordinator – IT infrastructure of Mechanical Department |
| 4. | Incharge - Production Engineering Lab |
| 5. | Coordinator Honors course CAE |

Date: 10 / 09 / 2024

Signature of Faculty Member