

Somaiya Vidyavihar University

Name: Prof. Shilpa Sadanand Bhambure			E-mail:shilpabhambure@somaiya.edu		
Contact No: (022) 66449529					
Department/Section: Mechanical					
College: K J Somaiya School of Engineering					
DOJ Somaiya: 21 st July 2008		Career Experience: 20 Yrs		Industry Experience:_ _Yrs	
				Teaching Experience: 20 Yrs	
Present Academic Designation: (Assistant Professor)			Present Administrative Designation: -		

Area of research/specialization and Courses Delivered					
Research domain/interests/areas					
1. Computer Aided Design and Engineering					
2. Composite Materials					
Courses Delivered					
1. Engineering Drawing					
2. Engineering Mechanics					
3. Computer Aided Machine Drawing					
4. Computer Aided Design					
5. Computer Aided Engineering					
6. Industrial Engineering & Enterprise resource planning					
7. Thermodynamics					

Recognition as a teacher by any University	UG: Yes	PG: Yes	Ph.D : Yes/No
Details of Recognitions			
1. UG: Mumbai University, Somaiya Vidyavihar University			
2. PG: Mumbai University			

Education					
Examination	Name of the Degree	University/Board	Institute/College	Year	CPI/SPI/ % Marks
Ph.D	PhD Mechanical	Mumbai University	VJTI	2023	
PG	M.E. Mechanical	Mumbai University	KJSCE	2013	74.75%
UG	B.E. Mechanical	Shivaji University	RIT Sakharale	1999	63.58%
Diploma					
NET/SET/Other					

Notable Experience Details					
Sr. No	Name of the organization	Designation	Date of Joining	Date of Leaving	Experience (Years)
1.	VJTI Matunga, mumbai	Lecturer	Aug. 2004 – Dec. 2006	January 2007	2 years
2.	K. J. Somaiya COE, Vidyavihar	Lecturer	Jan. 2007 –May 2008	June 2008	1.5 years
3.	K. J. Somaiya School of Engineering, Vidyavihar	Assistant Professor	July 2008 – Till Date	-	17 years

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Research Accomplishments and Projects		
No of students pursuing Ph.D as on date: --		No of students completed Ph.D as on date:-
No of students completed PG thesis / Project work as on date:01		No of students / groups completed UG projects as on date: 25
Publications Total: 05	Number of Peer review Journal papers: 03	Number of Conference papers: 05
<p>Details of Publications:</p> <p>International Journals</p> <ol style="list-style-type: none"> 1. Shilpa S. Bhambure, Addanki S. Rao & Thambiannan Senthilkumar “Characterization of Control and Chemically Modified Kenaf Fiber”, Journal of Natural Fibers, Taylor & Francis, https://doi.org/10.1080/15440478.2021.1993500 Impact Factor: 5.323 2. Shilpa Bhambure, A. S. Rao and T Senthilkumar “Analysis of Mechanical Properties of Kenaf and Kapok Fiber Reinforced Hybrid Polyester Composite” Journal of Natural Fibers, Taylor & Francis DOI: 10.1080/15440478.2022.2156964 Impact Factor: 5.323 <p>National Journals</p> <ol style="list-style-type: none"> 3. Shilpa Bhambure, A. S. Rao and T Senthilkumar (2022) “Effect of Chemical Treatments on Physical Properties of Kenaf Bast Fibers”, Indian Journal of Fibre & Textile Research (IJFTR) NISCAIR Publications Impact factor: 0.84 <p>Conferences</p> <ol style="list-style-type: none"> 4. Shilpa Bhambure, A. S. Rao “Experimental Investigation of Impact Strength of Kenaf Fiber Reinforced Polyester Composite” VIT Chennai March 2021, Materials Today: Proceedings 46(6) DOI: 10.1016/j.matpr.2021.02.055, Volume 46, Part 2, 2021, Pages 1134-1138. 5. Shilpa Bhambure, A. S. Rao “Estimation of Mechanical Properties of Kenaf Fiber Reinforced Polyester Composites” Lecture Notes in Mechanical Engineering, https://doi.org/10.1007/978-981-16-7787-8, Print ISBN 978-981-16-7786-1, ISBN 978-981-16-7787-8 (eBook). 6. Shilpa Bhambure, A. S. Rao “A Review on Biotribology in Engineering and Medical Applications” TriboIndia 2018, VJTI Mumbai (SSRN Electronic journal). 7. Shilpa Bhambure, A. S. Rao “A Role of Bio Manufacturing in Industrial Applications” NITIE Mumbai (SSRN Electronic journal). 8. Shilpa Bhambure, A. S. Rao “A Review on Bio Composites in Industrial Applications” Pillai College of Engineering. 9. Priyanka Patil, Shilpa Bhambure “Influence of body weight on the Knee Joint Cortical Bones using Finite element analysis” K J Somaiya School of Engineering, June 2025. <p>Books/Book Chapters</p> <ol style="list-style-type: none"> 10. --- <p>Patents/Copy Rights</p> <ol style="list-style-type: none"> 1. A Suture Device (Issue No- 14/2022) 		

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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:02 (Rs: 8,50,000) (Rs:41,43,360)
Details of Research / consultancy / projects: Completed --- On-going --- Applied 1. SVU Collaborative Research 2. Core Research Grant		
IPR/ Copyrights Patent granted "A SUTURE DEVICE" on 16 th October 2023		

FDPs/Seminars/Workshops/Training Programs Attended/ Organized/ Delivered
<p>Attended</p> <ol style="list-style-type: none"> Four days training program on Inventor Professional (2008) at Don Bosco Institute of Technology, Vidyavihar, Mumbai from 29th July – 1st August 2008. One week STTP on Manufacturing processes and Systems: An IT Perspective (University Approved) in K. J. Somaiya College of Engineering, Vidyavihar, Mumbai- 400 077 conducted during 6th July – 10th July 2009. Two week workshop on (ISTE workshop) Thermodynamics in Mechanical Engineering at K. J. Somaiya College of Engineering, Vidyavihar, Mumbai- 400 077 remote centre conducted by IIT Bombay during 14th June – 24th June 2011. One day program on J-Gate training programme at Bharati Vidyapeeth College of Engineering Kharghar, Mumbai held in June 2012. One day orientation program on Engineering Drawing at SIES, Nerul, Mumbai held on 10th September 2012. One week Workshop on (TEQIP) Product Design Validation Using Finite Element Analysis (TEQIP) at Sardar Patel College of Engineering, Andheri during 24th June to 28th June 2013. Three days workshop on Computer Aided Machine Drawing at Fr. C. Rodrigues Institute of Technology, Vashi during 11th July - 13th July 2013. One day training programme on "E-Foundry: Casting Design and Simulation" at VJTI Matunga Mumbai in association with IIT Bombay held on 26th October 2013. Two week workshop on (ISTE workshop) Engineering Mechanics at SIES, Nerul Mumbai remote centre conducted by IIT Bombay during 26th Nov – 6th December 2013. One day Institutional training program on Energy Conservation at K. J. Somaiya College of Engineering, Vidyavihar, Mumbai- 400 077 held on 7th March 2014. One week Training program on Solid works Design, Validation Software at K. J. Somaiya College of Engineering, Vidyavihar, Mumbai- 400 077 in the month of January 2015. One day training program on Internet of Things (IoT) at Sardar Patel College of Engineering, Andheri Mumbai held on 7th May 2016. One day Workshop on "VSSC ISRO'S FEAST Technology at Mech. Dept. VJTI on 8th Nov.

2016

14. One week STTP on "Biology for Engineers" conducted by IIT Bombay during 5th June – 9th June 2017
15. Three days workshop on Medical Device Hakathon (MEDHA-2017) conducted by IIT Bombay, during 14th July-16th July 2017. (Received Winner award of the event (Free entry to MEDIC at COEP in Sept. 2017))
16. Two days workshop on “3D printing” conducted by IIT Bombay, during 21st and 22nd August 2017.
17. Five days “Medical Device Innovation Camp” (MEDIC-2017) conducted by COEP Pune during 13th -17th September 2017.
18. Six days workshop on “Fundamentals and applications of Fracture Mechanics” at VJTI Matunga Mumbai during 22nd -27th January 2018.
19. NPTEL online course on “Introduction to Research” Aug-Sept-2018.
20. One day workshop on “Industrial Tribology” at VJTI Matunga Mumbai on 12 December 2018.
21. Three days workshop on “Fiber Reinforced Composites” at CIRCOT Mumbai during 4-6 February 2019.
22. NPTEL online course on “Introduction to Composites” from Jan-Apr 2019.
23. Webinar on Design- Past, Present and Future organized by Department of Mechanical Engineering, D.J. Sanghavi 13th June 2020.
24. Online Faculty Development Programme on “Advances In Composite Materials and Manufacturing Process” organized by Department of Mechanical Engineering, St. Ann’s College of Engineering and Technology, Chirala from 22/06/2020 to 26/06/2020.
25. Participated and passed the Online quiz “Advances In Composite Materials And Manufacturing Process” conducted by Department of Mechanical Engineering, St. Ann’s College of Engineering and Technology, Chirala on 26-06-2020.
26. Online FDP on “Online Teaching and E Content” conducted by S.K.Somaiya College on 11th and 12th June 2020.
27. Webinar on “Virtual lab for Experimental Learning” conducted by L.T College of Engineering on 18th June 2020.
28. Online STTP on “Applications of Optimization Techniques in Mechanical Engineering” organized by Vitarka Projects from 7-11 August 2020.
29. Online webinar on “Transforming Business Operations using Industry 4.0 Technologies” organized by IIIE Mumbai Chapter on 11th July, 2020.
30. One day Symposium “Awareness to action- Single use Plastic” conducted by KJSCE Mechanical department on 22nd February 2022.

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31. Attended IP Awareness Training program conducted by NIPAM on 6th April 2023
32. One week online National level FDP on “Indian Knowledge Systems: An Introduction” conducted by Gokul University, Siddhpur, Gujrat from 4th December to 10 December 2024.
33. One week online National level FDP on “Outcome Based Education and Application of Generative AI in Teaching and Research conducted by Guwahati University, Assam in association with ipsr solutions limited from 17 April 2024 to 24 April 2024.
34. One day training on “Composite Manufacturing” at JSM composites Turbhe on 17th July 2024.
35. One week Short Term Programme on “Sustainable Product Design and Manufacturing” conducted by Mata Vaishno Devi University, Katra, Jammu in Collaboration with School of Mechanical Engineering from 22nd July to 27th July 2024.
36. One week online FDP on “Machine Drawing through AutoCAD” organized by CVR College of Engineering Telangana from 9th to 13th September 2024.
37. One week online National level FDP on “Outcome Based Education and Application of Generative AI in Teaching and Research conducted by in association with ipsr solutions limited from 2nd Jan 2025 to 9th Jan 2025.
38. Two week online FDP on “Experimental and Simulation Based Approaches in Additive Manufacturing” Jointly organized by Indian Institute of Technology (BHU) Varanasi and Electronics and ICT Academy PDPM IITDM Jabalpur from 21st July to 30th July 2025.

Organized

- 1 Medical Device Hackathon 2017 organized by KJSCE in collaboration with IIT Bombay.
- 2 World Environment Day 5th June 2021 workshop on Exploring Green Behaviors through Social Psychology Organized by K J Somaiya College of Engineering's Eco- task force under the UGC Quality Mandate SATAT and IQAC.
- 3 Medical Device Hackathon May 2022 organized by KJSCE in collaboration with IIT Bombay.
- 4 Seminar on “Personal Finance” for faculty and staff members on 6th February 2023.
- 5 Seminar on 'Introduction to Intellectual Property' on 6th April 2023.
- 6 International Conference on Technologies for Energy, Agriculture, and Healthcare on 5th and 6th June 2025

Delivered:

1. “Characterization of Composite Material” at ICAR-CIRCOT in STTP held on Training on Composite Materials on 7th February 2023.
2. “CNC part programming” at KJSCE in Summer school training held in May 2024.

Notable Key Scholastic Achievements

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|----|--|
| 1. | 3 Journal papers accepted and 2 are submitted |
| 2. | Special study material for subject Engineering Drawing |

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3.	Participated and passed the Online quiz on Advances in Composite Material
4.	Delivered talk on Characterization of Composite Material at CIRCOT Mumbai
5.	Prepared Engineering Drawing Booklet for all FY students along with key points of all topics which help them to understand the subject easily.

Notable Positions and Responsibility	
1.	FY Engineering Drawing Coordinator
2.	NAAC Criteria VI Committee Member
3.	NBA Criterial IX coordinator

Date: 09/09/2025

Signature of Faculty Member