

CURRICULUM VITAE

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Dr. Sudheer M is a seasoned Mechanical Engineering Professor with over 21 years of teaching experience at St Joseph Engineering College Mangaluru. He combines academic excellence with practical insights, having spent 3 years in the Polymer Industry in Bengaluru. Dr. Sudheer has dedicated 16 years to groundbreaking research in the characterization of polymer composites, contributing significantly to the field through numerous publications and presentations. His work focuses on enhancing the performance and durability of composite materials, making him a respected authority in academic circles.

Sudheer M is a distinguished administrator with over two decades of exemplary service at St Joseph Engineering College Mangaluru. Known for his strategic vision and exceptional leadership, he has successfully managed organizational transformations. His expertise in policy development, resource management, and team building has consistently driven institutional growth and efficiency. Sudheer's collaborative approach and commitment to excellence have earned the respect of colleagues and stakeholders alike. His ability to navigate complex challenges and implement sustainable solutions underscores his reputation as a dynamic and effective leader in the field of administration.

Educational Qualification:

Degree	University	Specialization	Year of passing	Class	Remarks
B. E	Mangalore University	Industrial Production	1999	First Class (62%)	
M. Tech	VTU Belgaum	Computer Integrated Manufacturing	2005	Distinction (84%)	Secured 2 nd Rank
Ph.D	VTU Belgaum	Tribology of Polymer Composites	2014	Degree conferred during May 2015	

Work Experience: Total 24 years of Work Experience

Industrial Experience: (About 3 Years) Worked as Quality Control Engineer at Karnataka Plascom Engineers Pvt. Ltd situated in Bangalore from September 1999 to July 2002.

Teaching Experience: (About 21 Years) Presently working as Dean – Academic Affairs and Professor in the Department of Mechanical Engineering at St. Joseph Engineering College Mangaluru. Faculty from August 2005 to till date.

Served as Member of Governing Council of St Joseph Engineering College Mangalore from 2015-18.

Appointed as the Dean – Student Welfare at St Joseph Engineering College, Mangaluru for a term of 3 years with effect from May 2017.

Served as Dean – Research and Development from 01 Aug 2021 to 21 Nov 2022.

Presently serving as Dean – Academics from 07 Nov 2022 onwards to till date.

Serving as Member of Board of Studies (BoS) VTU Belagavi from 2022-2025.

Academic Identity:

Orcid Id 0000-0003-0869-2876	Scopus Id 55347749500
Researcher Id AAC-8233-2022	Google Scholar Id 9DmPVdMAAAAJ

Research Papers Presented/Published:

International journals: 21

[1]. **M. Sudheer**, K. M. Subbaya , Dayananda Jawali , Thirumaleshwara Bhat, “Mechanical Properties of Potassium Titanate Whisker Reinforced Epoxy Resin Composites”, *Journal of Minerals & Materials Characterization & Engineering*, Vol. 11, No.2 pp.193-211, 2012.

[2]. **M. Sudheer**, Ravikantha Prabhu, K. Raju, Thirumaleshwara Bhat ”Optimization of Dry Sliding Wear Performance of Ceramic Whisker Filled Epoxy Composites Using Taguchi Approach”, *Advances in Tribology*, Volume 2012, Article ID 431903, 9 pages, **(Indexed by scopus). Q3.**

[3]. **M. Sudheer**, G. Vignesh Shanbhag, Prashanth Kumar and Shashiraj Somayaji, “Finite Element Analysis of Thermal Characteristics of Annular Fins With Different Profiles”, *ARPN Journal of Engineering and Applied Sciences* (ISSN 1819-6608), Vol. 7, No. 6, June 2012, pp. 750-759. **(Indexed by scopus). Q4.**

[4]. **M. Sudheer**, Ravikantha Prabhu, K. Raju, and Thirumaleshwara Bhat, “Modeling and Analysis for Wear Performance in Dry Sliding of Epoxy/Glass/PTW Composites Using Full Factorial Techniques,” *ISRN Tribology*, vol. 2013, Article ID 624813, 11 pages, 2013.

[5]. **M. Sudheer**, N. Karthik Madhyastha, M. Kewin Amanna, B. Jonthan, and K. Mayur Jayaprakash, “Mechanical and Abrasive Wear Behavior of Metal Sulphide Lubricant Filled Epoxy Composites,” *ISRN Polymer Science*, vol. 2013, Article ID 242450, 8 pages, 2013.

[6]. **M. Sudheer**, K.H. Vishwanathan, K. Raju, and Thirumaleshwara Bhat, “Effect of potassium titanate whiskers on the performance of vacuum molded glass/epoxy composites”, *Journal of Reinforced Plastics and Composites*, Vol. 32, No. 16, 2013 pp. 1177-1187. **(Indexed by scopus). Q2.**

[7]. **M. Sudheer**, Ravikantha Prabhu, Kandavalli Raju, and Thirumaleshwara Bhat, “Effect of filler content on the performance of Epoxy/PTW composites”, *Advances in Materials Science and Engineering*, vol. 2014, Article ID 970468, 11 Pages, 2014, doi:10.1155/2014/970468. **(Indexed by scopus). Q2.**

[8]. **M. Sudheer**, K. Hemanth, K. Raju, Thirumaleshwara Bhat, “Enhanced mechanical and wear performance of epoxy/glass composites with PTW/Graphite hybrid fillers”, *Procedia Materials Science*, Volume 6, 2014, pp. 975-987. **(Indexed by Scopus).**

- [9]. **M. Sudheer**, Ashwin Shetty, Shashiraj Somayaji, “Finite Element Investigations of Temperature Distribution in Fins with Circular Perforations”, American Journal of Materials Science 2015, 5(3C): 157-161.
- [10]. **M. Sudheer**, Pradyoth K. R, Shashiraj Somayaji, “Analytical and Numerical Validation of Epoxy/Glass Structural Composites for Elastic Models”, American Journal of Materials Science 2015, 5(3C): 162-168.
- [11]. **M. Sudheer**, “Thermomechanical Properties of Epoxy/PTW Composites”, Journal of Mechanical Engineering and Automation 2016, 6(5A): 18-21.
- [12]. **M. Sudheer**, “Study of Wear Behaviour of Recycled Metal Powder Filled Epoxy Composites Using Factorial Analysis”, American Journal of Materials Science 2016, 6(4A): 82-87.
- [13]. **M Sudheer**, “Evaluation of abrasive wear behavior of dual ceramic whisker reinforced epoxy composites”, Materials Discovery, 6, 2016, pp. 17-27. **(Elsevier, Indexed by Scopus) Q2.**
- [14]. Vikas G., **Sudheer M**, “A Review on Properties of Basalt Fiber Reinforced Polymer Composites”, American Journal of Materials Science 2017, 7(5): 156-165.
- [15]. Bilal Ahmad, Mahammad Ashfaq, Anton Joy, Zuzarte Aaron Carlos, **Sudheer M** “Fabrication and Characterization of an Eco-friendly Biodegradable Epoxy/Chitosan Composites”, American Journal of Materials Science 2017, 7(5): 166-169.
- [16]. Ravikiran Kamath. B, **Sudheer. M**, ”On tribological behavior of synthetic fiber reinforced polymer composites modified with fillers: a review”, International Journal of Mechanical and Production Engineering Research and Development, Vol. 9, Issue 5, Oct 2019, 71-80. **(Indexed by Scopus). Q3.**
- [17]. Bhavith K, Prashanth Pai M, **Sudheer M**, Ramachandra C G, Maruthi Prashanth B H and Kiran Kumar B, “The Effect of Metal Filler on the Mechanical Performance of Epoxy Resin Composites”, Engineering Proceedings, 2023, 59 (200), 1-12. **(Indexed by Scopus). Q3.**
- [18]. Sawan Shetty, Raviraj Shetty, Rajesh Nayak, Adithya Hegde, Uday Kumar Shetty S. V. and **Sudheer M**. “DOE coupled MLP-ANN for optimization of thrust force and torque during drilling of CCFRP composite laminates”, Cogent Engineering, 2024, Vol 1, No.1, 2319397. **(Indexed by Scopus). Q2.**
- [19]. B. Ravikiran Kamath, **M. Sudheer**, Vidyasagar Shetty, Deepak Kothari and Thrivikram Prabhu, “Fabrication and mechanical testing of glass fiber reinforced epoxy matrix composites modified with powdered metallic fillers”, Journal of Mines, Metals and Fuels, 2024, 72(2): 103-109. **(Indexed by Scopus). Q4.**
- [20]. **M. Sudheer**, B. Ravikiran Kamath , Raja Yateesh Yadav , Vidyasagar Shetty, Rajath , P. Akshara , Chidambar Kadoli , G. Sanjay Pai and Akash Vishwanath, “Wear Performance of Polymer Matrix Composites Reinforced with Aramid Fibers and Modified with Ceramic Nano-powders”, Journal of Environmental Nanotechnology, Vol. 14(1), 2025, 253-265. **(Indexed by Scopus). Q4.**

[21]. Ravikiran K B, Sudheer M. “Fabrication and mechanical behavior of Kevlar® fabric-reinforced epoxy matrix composites modified by potassium titanate whiskers”, Research on Engineering Materials and Structures 2025; 11(6): 3393-3404. **(Indexed by Scopus) (Q3).**

National journals: 02

[1]. Sudheer M, Sandesh Kubanooraya, Raju K and Thirumaleshwara Bhat, “Abrasive wear performance of Epoxy/Glass/PTW composites”, Annual Research Journal, NMAM Institute of Technology, Vol. 3, 2013, pp. 36-42.

[2]. Sudheer M, “Implementation of Taguchi Design for Dry Friction Coefficient of Epoxy Composites”, Annual Research Journal, NMAM Institute of Technology, Vol. 4, 2014, pp. 24-29.

International conferences: 08

[1]. **M. Sudheer**, R Shankara Reddy and K S Shivakumar Aradhya, “Evaluation of Apparent Elastic Moduli for Muite/Alumina Ceramic Matrix Composites Using Finite Element Method, Proceedings of 50th Congress of ISTAM, December 14-17, 2005, IIT, Kharagpur.pp.192-199.

[2]. **Sudheer M** and Thirumaleshwara Bhat, “Validation of Analytical Methods to Evaluate Elastic Properties of Mulite/Alumina Ceramic Matrix Composites Using Finite Element Method”, Presented in International Conference on Advances in Manufacturing Engineering held during 24-26 October 2007 at MIT Manipal.

[3]. **Sudheer M**, K M Subbaya, Thirumaleshwara Bhat, “Processing and characterization of potassium titanate whisker reinforced epoxy based polymer matrix composites”, Proceedings of the Joint International Conference on Advanced Materials (ICAM-2011), 19-20th Aug 2011, BTLIT, Bangalore pp. 111-116.

[4]. **Sudheer.M**, Ravikantha Prabhu, Raju K, Thirumaleshwara Bhat,”Dry Sliding Wear behavior of Potassium Titanate Whisker Reinforced Epoxy Based Polymer Matrix Composites”, Presented at International Multi-component Polymer Conference (IMPC-2012), 23-25th March 2012,Mahatma Gandhi University, Kottayam, Kerala.

[5]. **Sudheer M**, Sandesh Kubanooraya, Raju K, Thirumaleshwara Bhat, “Abrasive Wear Performance of Epoxy/Glass/PTW Composites”, Proceedings of International Conference in Emerging Trends in Engineering (ICETE 2013),15-16th May 2013, NMAMIT Nitte, Excel India Publishers (ISBN: 978-93-82880-29-5), New Delhi, pp.123-127.

This paper has won the “**Best Paper Award**” in Mechanical Engineering stream.

[6]. Suhas U, Balakrishna S.S, **Sudheer M**, “Processing and characterization of grey cast iron-epoxy polymer composites”, Proceedings of International Conference on Mechanical and Industrial Engineering”, (ICMIE) Bangalore, 02-June -2013, pp. 25-29.

[7]. **M. Sudheer**, K. Hemanth, K. Raju, Thirumaleshwara Bhat, “Enhanced mechanical and wear performance of epoxy/glass composites with PTW/Graphite hybrid fillers”, 3rd International Conference on Materials Processing and Characterisation (ICMPC 2014), Gokaraju Rangaraju Institute of Engineering and Technology (GRIET), Hyderabad, 8-9th March 2014.

[8]. Sudheer M, “ Dry sliding wear behavior of cast iron powder filled epoxy composites”, Presented in International Conference on Emerging Trends in Mechanical Engineering on 11th August 2018 at SJEC Mangaluru.

National conferences: 09

[1]. **Sudheer M**, Thirumaleshwara Bhat, “Friction and Wear of Polymer Composites: A Review”, A National Conference on Advances in Mechanical Engineering (AIM-2011), MIT Manipal January 2011.

[2]. **Sudheer.M**, Ravikantha Prabhu, Raju K, Thirumaleshwara Bhat,” Effect of Ceramic Micro-Whiskers on Tribo-Performance of Epoxy Resin Composites – A Taguchi Approach”, National Conference on Emerging Trends in Materials for Advanced Technology (NETMAT), at KVGCE Sullia ,Mar 20-21, 2012.

[3]. **Sudheer.M**, Ravikantha Prabhu, Raju K, Thirumaleshwara Bhat, “Hybrid effect of ceramic whiskers and graphite flakes on mechanical and dry sliding performance of epoxy composites”, National Conference on Challenges in Research and Technology in Coming Decades (CRT-2013) at SDMIT, Ujire, Sept 27-28, 2013.

[4]. **M. Sudheer**, Ashwin Shetty, Shashiraj Somayaji, “Finite Element Investigations of Temperature Distribution in Fins with Circular Perforations”, National Conference in Emerging Trends in Mechanical Engineering (eTIME-2015), SJEC, Mangaluru, Aug 8, 2015.

[5]. **M. Sudheer**, Pradyoth K. R, Shashiraj Somayaji, “Analytical and Numerical Validation of Epoxy/Glass Structural Composites for Elastic Models”, ”, National Conference in Emerging Trends in Mechanical Engineering (eTIME-2015), SJEC, Mangaluru, Aug 8, 2015.

[6]. **M. Sudheer**, “Thermomechanical Properties of Epoxy/PTW Composites”, National Conference in Emerging Trends in Mechanical Engineering (eTIME-2016), SJEC, Mangaluru, Aug 6, 2016.

[7]. **M. Sudheer**, “Study of Wear Behaviour of Recycled Metal Powder Filled Epoxy Composites Using Factorial Analysis”, National Conference in Emerging Trends in Mechanical Engineering (eTIME-2016), SJEC, Mangaluru, Aug 6, 2016.

[8]. Vikas G., **Sudheer M**, “A Review on Properties of Basalt Fiber Reinforced Polymer Composites”, National Conference in Emerging Trends in Mechanical Engineering (eTIME-2017), SJEC, Mangaluru, Aug 5, 2017.

[9]. Bilal Ahmad, Mahammad Ashfaq, Anton Joy, Zuzarte Aaron Carlos, **Sudheer M** “Fabrication and Characterization of an Eco-friendly Biodegradable Epoxy/Chitosan Composites”, National Conference in Emerging Trends in Mechanical Engineering (eTIME-2017), SJEC, Mangaluru, Aug 5, 2017.

Reviewed research articles for following 15 Journals:

Journal of Polymer Engineering, Recent Patents in Mechanical Engineering, International Journal of Material Science, Emerging Materials Research, Journal of Composite Materials. American Journal of Materials Science, Journal of Mechanical Engineering and Automation, Indian Journal of Engineering and Materials Sciences, International Journal of Nano Technology, Polymer-Plastics Technology and Engineering, Materials Engineering

and Performance, Polymer Engineering and Science, Journal of Testing and Evaluation, Silicon and Discovery.

Membership:

Life Member of Indian Society for Technical Education (ISTE). LM 47191.

Life Member of Tribology Society of India (TSI). LM 5164

Life Member of Indian society for Advancement of Materials and Processing Engineering (ISAMPE) L-1639

Life Member of International Association of Engineers (IAENG). 539774.

Subjects Taught at UG Level:

Computer Aided Engineering Drawing, Computer Aided Machine Drawing, Strength/Mechanics of Materials, Design of Machine Elements, CAD/CAM/CIM, Manufacturing Process-III, Non-Destructive Testing, Finite Element Method, Composite Materials, Automation and Robotics, Project Management, Supply Chain Management, Research Methodology and IPR, Materials Testing Lab, Computational Analysis (ANSYS) Lab, CIM & Automation lab, Design lab etc.

Subjects Taught at PG Level:

Finite Element Analysis and Advanced Materials Technology.

Dr Sudheer M

Date: 18 Jun 2026