




K. S. INSTITUTE OF TECHNOLOGY

#14, Raghuvanahalli, Kanakapura Road, Bangalore-560109.

Faculty Name	Mr. AJITH GOPAL JOSHI	
Designation	Assistant Professor	
Educational Qualification	B.E., M.Sc. Engg. (Res.)	
Experience in Years	Teaching: 16 years Industry : Nil	
Areas of Interest	Composite Materials, Manufacturing Process, Tribology	
E-mail	ajithgopaljoshi@ksit.edu.in	

Educational Details

Examination/ Degree	College / University	Year of Passing
UG	University B.D.T. College of Engineering/ Kuvempu University	2009
PG	Visveswaraya Technological University, Belagavi	2016
Ph.D	Visveswaraya Technological University, Belagavi	Pursuing

Publications

Journal Publications

Ashish Soni, Ajith Gopal Joshi; Sonu Kumar Gupta; Dhinakaran Veeman; Sethupathi Bose, Synergy of fruit waste derived hybrid biofillers and PLA on tribological response of 3D printed biocomposite: A comparative study and parametric optimization by Taguchi Design of Experiment, Materials Science and Engineering: B, 323, 323, (2026) 118700 (Q2)

Balla, S.K., Konki R.K., M. Manjaiah; Ajith G. Joshi, Davim, J.P, Optimization of Laser Powder bed fusion process parameter for the printing of AlSi12 using NSGA-II and Pareto search algorithm, Materials Science and Engineering Technology, 55(11) (2024) 1575-89

R. Suresh, Ajith G. Joshi, M. Manjaiah, Satish Kumar, Bharath K.N., Study on Mechanical properties and Parametric Optimization of Wear Behaviour of TiC incorporated Al2024 Metal Matrix Composite using Regression and Spotted Hyena Algorithm, Scientia Iranica, 31 (13), 1063-1076

Ajith G. Joshi, S. Basavarajappa, K.N. Bharath, Recent progress in the research on natural composite brake pads: a comprehensive review, Tribology-Materials, Surfaces & Interfaces 17 (3), 2023, 237-259

M.H. Divakar, S. Basavarajappa, Ajith G. Joshi, Comparative Performance Analysis of Gr and MoS2 Solid Lubricants During High-Temperature Dry Sliding Wear Behavior of Al2618-Based Hybrid MMCs, Journal of The Institution of Engineers (India): Series D, (Online first) 105 (2024) 1485-92

R. Suresh, Ajith G. Joshi, Siddeshkumar N.G., Investigation on Dry Sliding Wear Behavior of AA5083/Nano-Al₂O₃ Metal Matrix Composites, *Revista de Metalurgia*, 2022, Vol. 58(1), e213. <https://doi.org/10.3989/revmetalm.213> (Q3)

R. Suresh, Ajith G. Joshi, M. Manjaiah, Experimental Investigation on Tool Wear in AISI H13 Die Steel Turning using RSM and ANN Methods, *Arabian Journal for Science and Engineering*, 2021, Vol. 46 (3), 2311-2325 (Q1)

Ajith G. Joshi, M. Manjaiah, S. Basavarajappa, R. Suresh, Wear Performance Optimization of SiC-Gr Reinforced Al Hybrid Metal Matrix Composites Using Integrated Regression-Antlion Algorithm, *Silicon*, 2021, Vol. 13(11), 3941-3951 (Q2)

Ajith G. Joshi, S Basavarajappa, S Ellangovan, BM Jayakumar, Investigation on influence of SiCp on three-body abrasive wear behaviour of glass/epoxy composites, *Frattura ed Integrità Strutturale*, 2021, Vol. 15 (56), 65-73 (Q2)

Ajith G. Joshi, M. Prasanna Kumar, S. Basavarajappa, Investigation on slurry erosion of Al₂O₃ incorporated glass/epoxy composites, *International Journal of Surface Science and Engineering*, 2020, Vol. 14(4), 2020, 257-273 (Inderscience Publishers, UK) (Q3)

Ajith. G. Joshi, M. Prasanna Kumar, S. Basavarajappa, Influence of Al₂O₃ filler on slurry erosion behavior of glass/epoxy composites, *Procedia Material Science*, 5, 2014, 863-872 (Elsevier Publishers, Netherlands)

Ajith. G. Joshi, S. Basavarajappa, Surface Roughness in Drilling of Glass/Epoxy Composites with SiC/Gr fillers, *Journal of Machining & Forming Technology*, Vol. 6, (1-2), 2014, 65-77 (Nova Publishers, USA)

D.Abdul Budan, S. Basavarajappa, M. Prasanna Kumar, Ajith. G. Joshi, "Influence of Fibre Volume Reinforcement in Drilling GFRP Laminates volume", *Journal of Engineering Science & Technology*, 6(6), 2011 733-744 (Q3)

S. Basavarajappa, Ajith. G. Joshi, Arun Kumar. K. V, Praveen Kumar. A, M. Prasanna Kumar, "Effect of SiC filler on three-body abrasive wear behavior of Polymer Matrix Composites", *Polymer – Plastics Technology and Engineering*, 49 (1) (2010) 8 – 12. (Taylors & Francis Publishers, UK) (Q2)

Book Chapters

K.N. Bharath, Ajith G. Joshi, Amreen Taj, P.S. Shivakumar Gouda, M. Nagamadhu, Evolution and recent advancements of composite materials in sports applications, In Ed. *Applications of Composite Materials in Engineering*, Elsevier, Netherlands, 2024.

R. Suresh Ajith G. Joshi, Effect of Cutting Parameters on PVD Coated Carbide Tool Behaviour in High Speed Machining of SDSS 32760 Alloy. In Ed. *Sustainable Surface Engineering: Approaches for Industrial Applications Vol. II*, CRC Press, 2024, (Article in Press).

P Kaushik, R Kumar, M Manjaiah, Ajith G. Joshi, Studies on Cold Metal Transfer Welding of Aluminum 5083 Alloy to Pure Titanium, In Ed. *Advanced Joining Technologies*, CRC Press, 2024, 74-85

B. Krishna Prabhu, A.S. Saviraj, Ajith G. Joshi, Wear Behavior of Recycled Polyethylene Terephthalate Reinforced with Fly Ash Cenosphere, In Ed. *Structural Composite Materials. Composites Science and Technology*. Springer, Singapore, 2024, 213-220

B. Krishna Prabhu, S. M. Kulkarni, Ajith G. Joshi, Effect of surface treatment of cenospheres on the mechanical properties of cenosphere/recycled-PET composites, In Ed. Surface Engineering: Methods and Applications, CRC Press, 2022, 191-203

R. Suresh, Ajith G. Joshi, M. Manjaiah, Dry Sliding Wear Behavior of HVOF Sprayed Cermet (CrC-NiCr, WC-Co & WC-Co-Cr) Coatings using Statistical Analysis and ANN Model, In Ed. Surface Engineering: Methods and Applications, CRC Press (Taylor & Francis), 2022, 289-308

M.C. Murugesu, R. Suresh, Ajith G. Joshi, Priya Jadhav, A Case Study of Additive Manufacturing in Prosthesis Development in Industry 4.0, In Ed. Industry 4.0 in Small and Medium-Sized Enterprises (SMEs): Opportunities, Challenges, and Solutions, CRC Press (Taylor & Francis), 2022, 109-121

Ajith G. Joshi, M. Manjaiah, R. Suresh, Mahesh B. Davangere, ANN Modelling of Surface Roughness and Thrust Force During Drilling of SIC Filler Incorporated Glass/Epoxy Composites, In Ed. Nature-Inspired Optimization in Advanced Manufacturing Processes and Systems, CRC Press (Taylor & Francis), 2020, 149-174

R. Suresh, Ajith. G. Joshi, Investigations on Machinability Characteristics of Hardened AISI H13 Steel with Multilayer Coated Carbide Tool using Statistical Techniques, In Ed. Handbook of Research on Manufacturing Process Modeling and Optimization Strategies, IGI Global Publishers, USA, 2017, 194-207.

C.G. Sreenivasa, Ajith. G. Joshi, Influence of Cryogenic Treatment on Mechanical Behaviour of GFRP Laminate, In Ed. Polymers at Cryogenic Temperature, Springer-Verlag, Germany, 2013, 181-201

Conference Papers

Ajith. G. Joshi, Ramesh S. Desai, Prashanth M. V., Sandeep S., Study on Tribological Behaviour of ZA-27/Al₂O₃/Gr MMC, First International Conference on Recent Innovations in Engineering and Technology-2016, 11th to 13th Nov. 2016, Rural Engineering College, Bhalki, Bidar, Karnataka

Ajith. G. Joshi, Ramesh S. Desai, Sunil Kumar B.V., Study on the influence of cryogenic treatment on mechanical properties of AlSi10Mg alloy, First International Conference on Recent Innovations in Engineering and Technology-2016, 11th to 13th Nov. 2016, Rural Engineering College, Bhalki, Bidar, Karnataka

Ajith. G. Joshi, M. Prasanna Kumar, S. Basavarajappa, Influence of Al₂O₃ filler on slurry erosion behavior of glass/epoxy composites, International Conference on Advances in Manufacturing and Materials Engineering, March 27-29th, 2014 NITK Surathkal, Karnataka

Ramesh S. Desai, D.P. Girish, Ajith G. Joshi, A Study On The Mechanical Behaviour Of Al6061/TiO₂ Particulate Composites, International Conference on Advanced Materials, Manufacturing, Management and Thermal Sciences, May 03-04, 2013 SIT, Tumkur, Karnataka

Ajith G. Joshi, Naveen Nazareth, Vaman Shenoy, Effect Of Fiber Surface Treatment Of Mechanical Properties Of Polymer Matrix Composites: An Overview, International Conference on Advanced Materials, Manufacturing, Management, and Thermal Sciences, May 03-04, 2013 SIT, Tumkur, Karnataka

M. Manjaiah, Vasu M, S. Narendranath & Ajith G. Joshi, Study on Machinability of TiNiCu Ternary SMA using WEDM, International Conference on Advances in Manufacturing and Materials Engineering, March 27-29th, 2014, NITK Surathkal, Karnataka

Ajith G. Joshi, S Basavarajappa, Anith S.Kumar, Navin Kumar P.N., Shashi Kumar . G.M., Sharanabasavaraj, Investigation on the effect of filler materials on fire resistance behavior of glass/vinyl ester composites, International Conference on Advanced Materials, Manufacturing, Management and Thermal Sciences, Nov. 18th – 19th, 2010, Siddaganga Institute of Technology, Tumkur, Karnataka

M. N. Channapagoudra, Ajith G Joshi, S. Basavarajappa, M. Prasanna Kumar, P.M. Hosmatha “Studies on the mechanical behavior of glass/epoxy composites with different fillers”, International Conference on Advanced Materials, Manufacturing, Management and Thermal Sciences, Nov. 18th – 19th, 2010, Siddaganga Institute of Technology, Tumkur, Karnataka

P.M. Hosmatha, Ajith G Joshi, M.B. Davangeri M. N. Channapagoudra, “Influence of hematite filler on the mechanical behavior of glass/epoxy composites”, International Conference on Advanced Materials, Manufacturing, Management and Thermal Sciences, Nov. 18th – 19th, 2010, Siddaganga Institute of Technology, Tumkur, Karnataka

Ajith G Joshi, Manjunath . N, S Basavarajappa, Abhay Venkatesh, “Effect of graphite filler on three-body abrasive behavior of glass/epoxy composites”, International Conference on Advance in Mechanical Engineering and Building Science, Dec 14th – 16th, 2009, Vellore Institute of Technology, Vellore, Tamilnadu.

Ajith G Joshi, S Basavarajappa, Anith .S.Kumar, Navin Kumar P.N., Shashi Kumar . G.M., Sharanabasavaraj, “Effect of filler materials on fire resistance behavior of glass/epoxy composites”, International Conference on Advance in Mechanical Engineering and Building Science, Dec 14th – 16th, 2009, Vellore Institute of Technology, Vellore, Tamilnadu.

Jaya Kumar . B.M, Ajith G Joshi, Basavarajappa .S, Abdul Budan .D, Praveen Kumar . A, “Effect of soapstone nanofiller on the dry sliding behavior of glass – Epoxy composite”, International Conference on Recent Trend in Materials and Mechanical Engineering, Narosa Publications, India ISBN: 978-81-8487-007-7, 2009, pp. 129-136.

Ellangovan.S, S.Basavarajappa, Ajith G Joshi, “Influence of Solid Lubricant on Dry Sliding Wear Behavior of Glass-Epoxy Composite”, International Conference on Recent Trend in Materials and Mechanical Engineering, Narosa Publications, India ISBN: 978-81-8487-007-7, 2009, pp. 24-30.

Ajith G Joshi, S. Basavarajappa, Ganesh .K. Mesta, “Three-body abrasive wear behavior of glass-epoxy composite”, “International Conference on Recent Advances in Materials, Processing and Characterization (RAM) -2008, July 3-4, 2008”, V.R. Siddhartha Engg. College, Vijayawada, Andhra Pradesh, pp. 127-1333.

K.N. Bharath, R.P. Swamy, A.M. Rajesh, Ajith G Joshi, “Investigation on mechanical and moisture absorption properties of areca fibers and maize powder reinforced urea-formaldehyde composites”, International Conference on Emerging Research and Advances in Mechanical Engineering, ERA – 2009, Velammal Engineering College, Chennai, Tamil Nadu, India, pp. 1151-1154

Ajith G Joshi and Jayakumar . B.M, “Effect of Variation in filler volume fraction on Three-Body Abrasive Wear Behaviour of Glass – Epoxy Composite”, National Conference on Advanced Materials, Manufacturing, Thermal and Design Engineering (NATDMME 09), to be held on March 5th-7th, 2009 at Malnad College of Engineering, Hassan, Karnataka.

Prasanna Kumar .M, Ajith G Joshi, M.H. Divakar, “Effect of cutting parameters on cutting forces for turning of ZA-27/garnet/graphite metal matrix composites”, National Conference on New Advances in Thermal, Design, Materials, and Manufacturing Engineering (NATDMME 09), to be held on March 5th-7th, 2009 at Malnad College of Engineering, Hassan, Karnataka.

Ellangovan .S, Praveen Kumar . A, Jayakumar. B.M, Ajith G Joshi, “Wear Behaviour Of Polymer Matrix Composite Subjected To Dry Sliding”, National Conference on Advances in Materials and Manufacturing Process (AMMP) – 2007, Oct 5-6, 2007, Univ. B.D.T. College of Engg., Karnataka, pp.269-272.

Professional Membership

1. Indian Society for Technical Education –ISTE

Contact Details

Name: Mr. Ajith Gopal Joshi

Official Address: Assistant Professor, Department of Mechanical Engineering, K S Institute of Technology, 14, Raghuvanahalli, Kanakapura Road, Bangalore-560109

Phone Nos: 9886979018

Alternate Email: ajith.joshi.mech@gmail.com