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GM UNIVERSITY

P. B. Road, Davanagere – 577 006 KARNATAKA | INDIA



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## Dr. Shivakumar S

Professor and Director

**G M School of Business**  
**Master of Business Administration**

### Faculty Introduction (Five to Six Lines)

Dr. Shivakumar S. brings an exceptional interdisciplinary background, specialising in the convergence of **Operations Management**, **Logistics**, and **Supply Chain Management** with **Composite Materials** and **Product Data Management**. His academic foundation includes a Master's in Industrial Engineering and Operations Research, grounding his research in both operational efficiency and materials. His standing in the academic community is demonstrated by his appointments to the Doctoral Committees of esteemed institutions such as Visvesvaraya Technological University, Manipal Higher Academy, and Shivaji University, Kolhapur, in addition to his role as a Special Officer to VTU.

## Qualifications

**Ph.D. (Mechanical Engineering)**  
Bangalore University, Bangalore, 2012

**M. Tech. (IE & OR)**  
IIT Mumbai, 1994  
**MBA (Operations Management)**  
IGNOU, New Delhi, 2016

**BE**  
Mysore University, Mysore, 1988

## Experience

### Teaching

- 32 Years in Academics



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### Research

- Experimental & Numerical Analysis of Carbon Fibre Reinforced Polymer Composites

### Conferences/Workshops Attended

International Symposium on "Business Education: Bridging Borders, Shaping Futures", 14 -16 May 2024 , GM University, Davanagere

- International conference on Computational methods, Simulation and Optimisation, Jan 11-13, 2019, Asian Institute of Technology, Bangkok, Thailand.
- International Conference on Research in Mechanical Engineering Sciences (RiMES 2017), MAHE, Manipal, 21-23 Dec 17
- International conference on recent trends in Mechanical Engineering, Raison college of Engineering, Pune, 22 Feb 2015
- International Conference on Polymer Composites ICPC- 2014, NITK, Suratkal, 19-20, Dec 14
- ICRTET-14 , Pudukottai, Chennai, 13-14 Mar, 2014
- AMMMT'14, Tumkur, May 03-04, 2014
- MLEGS-13, KIT, Kolhapur, Feb 2013
- ASMP-12, IIT, Madras, 2012 Aug 30-31
- ETRIM -11 NIT, Calicut, Aug 2011
- AMMMT'10, Tumkur, 18th & 19th Nov '10
- International conference on Arts, Science, Management and Engineering, Panaji, 23rd – 25th , April 2009

### Research Interest

- Composite Materials
- Product Data Management
- Operations Management

### Awards & Achievements

- A patent titled "An IOT based system for Brain cancer detection in Human Body" published on 09/07/21. Application no: 202141027836 A.  
Merit Scholarship for High School education  
Guided 10 PhD candidates

### Publications

1. Analysis and Monitoring of Production Data in Manufacturing Based on Cloud Technology

Anand J. Joshi 1 , Shivakumar Shivamurthy 2

Journal of Aeronautics, Astronautics and Aviation, Vol. 57, No. 1, pp. 93 – 102 (2025) 93

[https://doi.org/10.6125/JoAAA.202501\\_57\(1\).07](https://doi.org/10.6125/JoAAA.202501_57(1).07)

2. Study on Machinability Issues of Hard to Machining Inconel 718 - Kishor K Powarlag , Anupama N Kallol2b, Shivakumar S



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Malaysian Journal of Science 44 (2): 104-114 (June 2025)

3. Dr. Nikhil R, Dr. Shivakumar S, Dr. Manjunath G A: Evaluation and comparison of fracture toughness of Glass Fibre Reinforce composites, Journal of Mines, Metals and Fuels, 70(10A) 2022, DOI: 10.18311/jmmf/2022 Q 4 Journal

4. V G Tiwary, Dr. Shivakumar S., Dr. A S Deshpande, Investigations on Friction Stir Joining of 3D Printed Parts to Overcome Bed Size Limitation and Enhance Joint Quality for Unmanned Aircraft Systems, SAGE Publisher, Part C: Journal of Mechanical Engineering Science., May 4 2020

5. Anand Joshi, Dr. Shivakumar S : Production data analysis and Management study of Manufacturing and its Monitoring system based on Cloud Technology, Journal of Industrial Information Integration, Elsevier Publication (Communicated and accepted)

6. Geetanjali S Guggari, Shivakumar S, et al.,” Thermo-mechanical properties of Vinyl Ester

hybrid composites with Carbon Black and Glass Reinforcement” Advances in Materials Science and Engineering, July 2021

7. GA Manjunath, S Shivakumar, R Fernandez, R Nikhil, PC Sharath, “A review on effect of multi-directional forging/multi-axial forging on mechanical and microstructural properties

of aluminum alloys”, Materials Today Proceedings, Feb 2021.

8. Geetanjali S Guggari, S Shivakumar, GA Manjunath, “Experimental investigation of mechanical properties of Acrylonitrile Butadiene Styrene (ABS) based polymer for Submersible pumps”, IOP Conference Series: Materials Science and Engineering, <https://doi:10.1088/1757-899X/1065/1/012035>, May 2021

9. G S Guggari and Dr. Shivakumar S, Effect of Fiber orientation, Fibre resin ratio and Sea Water exposure on the Properties of Glass reinforced/ABS composites, IJMPERD June 16, 2020

10. Manjuanth G A , Dr. Shivakumar S, S P Avadhani, Investigation of Mechanical Properties

and micro structural behavior of 7050 Al alloy by Multi directional forging technique, Materials Today, Elsevier publications.

11. Ritesh Bhat, Dr. N S Mohan , Dr. Shivakumar S, Reducing the Production Lead Time of an Industry Using Value Stream Mapping Integrated with Kaizen, International Journal of

Engineering and Technology (UAE), 2018, 7(4.41 Special Issue 41), pp.21-23.

12. Shirish Kerur, Dr. Shivakumar S, Optimization of Adhesive Joining Process Parameters

on Single Lap Shear Strength Properties of Hybrid Metal Polymer Composite Joints”, International Journal of Inventive Research in Material Science and Technology, AIP Conf. Proc. 1966,020004-8, DOI 10.1063/1.5038683, pp 020004-1-020004-8.

13. Nikhil R, Shivakumar S, Anupama N. Kallol, “Experimental & Numerical Analysis of

fractography and notch sensitivity factor of Carbon Fiber Reinforced Polymer Composites”, International Journal of Mechanical and Production Engineering Research

and Development, 2249-6890; ISSN (E): 2249-8001, 2019.

14. S M Kerur and Dr. Shivakumar S, “Investigation of Environmental degradation on Joint

Properties of Polymer Adhesive Joints in Salt Water environment”, International Journal



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of Engineering Sciences, 11(4) pp 136-142, 2019.

15. S M Kerur and Dr. Shivakumar S, "Investigation of Environmental degradation on Joint

Properties of Polymer adhesive joints in salt water environment", 3rd series of ASRES world congress on Engg and Applications WCEA 2018, Kaula Lumpur, 19-21 Dec 2018.

16. R Nikhil, Dr. S Shivakumar and Dr. Kallol Anupama, "Experimental & numerical investigation of mode II failure behavior evaluation using three-point bend, end notched

flexure test", MATEC Web of Conferences, 144, 02009 (2018).

17. S M Kerur and Dr. Shivakumar S, Optimization of Adhesive Joining Process Parameters

on single Lap Shear Strength Properties of Hybrid Metal Polymer Composite Joints, International conference on Inventive Research in Material Science and Technology 2018

AIP, March 23-24 2018.

18. Khadersab A and Shivakumar S, "Vibration Analysis Techniques for Rotating Machinery

and its effect on Bearing Faults", Procedia Manufacturing Proceedings Elsevier, 247-252, 2018.

19. Khadersab A and Shivakumar S "Experimental investigation of the Excitation Forcing Function in Rotating Machinery", Procedia Manufacturing Proceedings Elsevier, 20 (2018) 290-29

### Professional Membership

- Indian Society for Technical Education. (LM ) (Life Member)
- Fellow of Institution of Engineers

### Awards & Recognitions

- V Rank in BE, Mysore University

### Administrative Responsibilities

- Director, G M School of Business
- University Level

### Workshops / FDPs / Seminars Attended

- National Workshop on "Integration of AI and IoT in Industrial Automation" Organized by NIT Surathkal- Date: 2nd – 6th January 2024 Online mode

### Workshops / FDPs / Seminars Organized

- Faculty Development Programme (FDP) on "Advances in Composite Materials" Date: 10th – 12th April 2015 Organised by: Department of Mechanical Engineering, GIT, Belgaum

### Projects Guided

- 50 UG Projects



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- 20 PG Projects

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