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GM UNIVERSITY

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

GMU - Faculty & Staff Profile Templet



Contact

Email:dileepkumar@gmu.ac.in

Phone:8722688722

Websites

Google Scholar:

<https://scholar.google.com/citations?user=szPLwVAAAAAJ>

Research Gate:

https://www.researchgate.net/profile/Dileepkumar-S-G?ev=hdr_xprf

SCOPUS: 57219804184

Orcid:<https://orcid.org/0000-0002->

Mr. Dileepkumar S G

Assistant Professor in ME

Faculty

Faculty of Engineering and Technology

School / Program

Faculty of Engineering and Technology/

B.Tech. in Mechanical Engineering

Faculty Introduction

Mr. Dileepkumar S. G. completed his M.Tech in Production Engineering Systems Technology from UBDTCE, Davanagere, in 2015 and is currently working as an Assistant Professor in the Department of Mechanical Engineering at GM University, Davanagere. His research interests lie in the areas of machinability, metal coating techniques, and wear characterization, and pursuing doctoral research in the field of wear behaviour and advanced coating processes.

Qualifications

Ph.D. (Pursuing)

Visvesvaraya Technological University (VTU), Belagavi, 2014

M. Tech. (Production Engineering and Systems Technology)

UBDTCE, Davanagere, Karnataka, 2015

BE (ME)

STJIT, Ranebennur, 2012

Experience

Teaching

- 10 Years at GM University, Davanagere

Industry

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Research

Research interests lie in the field of manufacturing and surface engineering.



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Training Program Attended

- Completed online Autodesk Training course (Fusion of Industry 4.0- Digital transformation in Design and Manufacturing) held at PESITM Shivmogga from 18th to 22nd August 2025.
- Completed online Training Program (Manufacturing Process Simulation) held at VTU centre of Excellence from 26th July to 6th August 2021

Research Interest

- Machinability
- Metal Coating Wear Characterization
- Advanced Manufacturing Processes

Awards & Achievements

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Publication / Patents

- **Patent:** Patent Filed (1095)-Study the wear characterization of Ceramic Coated EN 24 medium carbon Steel.
- **National Conference Papers:**
 - “*Study and Evaluation of Plasma Sprayed Coating on a Metal Substrate*”, 2nd international conference on Emerging Trends in Science, Engineering and Management (IFERP), Organized by Dept. of Electronics and Communications Engineering GMIT, on 15th to 16th July 2021.
 - “*A study of Response Parameters During ECDCM of Crystal Glass*”, 5th national conference on emerging trends in engineering research and management (NCETERM – 2017) organized by GMIT, ON 8th and 9th September 2017.
 - “*Effect of grain size on compression and hardness properties of Rice husk Reinforced composites*”, National Conference on Mechamastic - 2k17, organized by Department mechanical Engineering, KIT, Tiptur, on 18th and 19th May 2017.
- **International Conference Papers:**
 - “*A Study of Response Parameters during ECDCM on Quartz Material*”, 1st International conference on Computational Engineering and Material Science (ICCEMS2020), Organized by Department of Mechanical Engineering GMIT, on 17-18 July 2020



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- “Effect of process parameters on tool life surface roughness and material removal rate on machining a grey cast iron using multilayer coated carbide tool”, international conference on advances in material research (ICAMR – 2019), organized by Department of Chemistry and Mechanical Engineering RUAS, on 25- 27 JULY 2019
- **International Journal Papers:**
 - S. G. Dileepkumar, K. N. Bharath, and R. Suresh “Effect of process parameters on tool life surface roughness and material removal rate on machining a grey cast iron using multilayer coated carbide tool”, AIP Conference Proceedings Volume 2274, Issue 1 10.1063/5.0022871, 2274, 030032 (2020)
DOI: <https://doi.org/10.1063/5.0022871>
S G Dileepkumar, K N Bharath, B C Naveen, Anil Kumar, “A Study of Response Parameters during ECDM on Quartz Material” IOP Conference Series: Materials Science and Engineering, 925, 012011
DOI: <https://doi.org/10.1088/1757-899X/1/012053>
 - Bharath KN, Manjunatha GB, Dileepkumar SG “Characterization of Bio Composite material from naturally woven coconut leaf sheath reinforced polymer composite”, International Journal of 2838 Biosensors & Bioelectronics, 019;5(4):132?136
DOI: <https://doi.org/10.15406/ijbsbe.2019.05.00166>
 - Vinod S Naik , Dileepkumar S G, K N Bharath, Naveen B C “Statistical analysis of response parameters during electrochemical discharge machining of crystal glass, Journal of Engineering Research and Application, PP 13-18, 2018
 - Prasanna P Kulkarni , Kiran J O , Deeleepkumar S G, “Effect of tool nose radius and cutting parameters on tool life, surface roughness in turning of grey cast iron”, International Journal of Engineering Science and Technology (IJEST) , Vol. 6 No.3 Mar 2014
- **Books/Book chapters:**
 - K.N. Bharath, S.G. Dileepkumar, G.B. Manjunatha,S.J. Amith Kumar, S. Indran and B.S. Binoj, “Optimization of parametric study on drilling characteristics of sheep wool reinforced composites”, Advances in Bio-Based Fibre,page No.- 237-240, 2022, ISBN- 978-0-12-824543-9,
DOI: <https://doi.org/10.1016/B978-0-12-824543-9.00018-9>



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Professional Membership

- Indian Society for Technical Education. (Membership No. LM 108235)

Awards & Recognitions

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Administrative Responsibilities

- **Department Level**
- Department IQAC Coordinator
- Department NAAC Coordinator
- Department NSS/NCC Coordinator

Workshops / FDPs / Seminars Attended

- Two days' workshop on E Tools for Research: Hands on Practice organized by Research Care on 28th and 29th March 2025
- 3 Day FDP on Application Software for Enhanced Course Delivery -3rd October to 5th October 2024 - AUTO CAD 3D TOOL) at GM University Davanagere.
- TEQIP 1.3 Sponsored three days workshop on realistic Approach to Wear Mechanism and Measurements organized by Cambridge Institute of Technology North Campus, Bengaluru on 21st to 23rd September 2019
- Two-day workshop on Intellectual Property Rights (IPR) organized by KSCST–GMIT IPR Cell on 17th & 18th September 2018
- Two-day workshop on Advanced Mathematical Techniques in Research and Engineering held on 28th & 29th January 2018 at GMIT.
- Two-day Faculty Development Program (FDP) on Robotics for Manufacturing Applications held on 15th & 16th April 2016 at JNNCE, Shivamogga.

Workshops / FDPs / Seminars Organized

- FDP conducted on Demonstration of Mendeley & journal finder tool" under the Faculty And Staff Enrichment Center (FASEC) on 28th September 2024 at GM University, Davanagere
- Organized a 3-Day Student Development Programme on “Digital Tools for Academic Applications” at GM Institute of Technology, Davanagere, from 20th to 22nd November 2024.
- Organized a 5-Day Student Development Programme on Web Technology from 6th to 12th November 2023 in the Department of



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Mechanical Engineering, in association with Linkable Technologies,
Davanagere.

Projects Guided

- **UG Projects**
- Abhishek k, Dhanush kumar R, Ravi K M and Yuvaraj S P (2024). *Study the wear characterization of Ceramic Coated EN 24 medium carbon Steel.*
- Harisha M.H, Hemantha R.M, Nagaraj B.G and Shreyas Singh P.H (2023). *Iot Based Automated Material Clamping Device.*
- Deekshith K, Devaramani Basavaraja, Gagan N S and Maheshkumar B Kenchareddi (2022). *Influence of Seashell on Mechanical Properties of Areca and Kenaf Fibers reinforced polymer Composite*
- Bhanuprakash V, Chetan H R, Kiran M and Manoj D Dyamenahalli (2021). *Plasma Coated Super Alloy Substrate for High Temperature Applications.*
- Ashfaq B Mr. Fayaz Khan, Furquan Ahamed N and Irshad Ahemed Khazi (2020). *Evaluation of mixed mode fracture toughness of silk/sheep wool fibre reinforced polymer composites.*
- Kiran Naik .V, Mallikarjun.G.J, Manoj Kumar .T and Praveenkumar.A.M (2019). *Study and Evaluation of Plasma Sprayed Coating On A Metal Substrate.*
- Darshan R P, Guruprasad G, H Prasannakumar And Lingaraja N (2018). *Investigation Of Bearing Strength On Bolted Lap Joints Using Statistical Techniques(2018).*

Funded Projects / Grants Received

- GMU Research Seed Money- **Development and Evaluation of HVOF Sprayed Ceramic Coating on Wear Properties of Medium Carbon Steel for High Temperature Application** (Received Rs. 25,000=00, AY-2024)
- **Plasma Coated Super Alloy Substrate for High Temperature Applications**, *Project Guide: Mr. Dileepkumar S G, Students: Mr. Bhanuprakash V, Mr. Chetan H R, Mr. Kiran M, Mr. Manoj D Dyamenahalli, Department of Mechanical Engineering, KSCST Student Project Programme, Ref. No: 45S_BE_2407, Amount Sanctioned: ₹5,000/-,*

Any Other Contributions