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GM UNIVERSITY

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

GMU - Faculty & Staff Profile Templet



Contact

Email: basavarajappas@gmu.ac.in

Phone: 9449052219

Websites

ORCID: <https://orcid.org/0000-0002-2554-0332>

Google Scholar:

<https://scholar.google.com/citations?user=PFab3MUAAAAJ>

LinkedIn: <https://www.linkedin.com/in/dr-basavarajappa-s-171b6b177>

Dr. Basavarajappa S

Assistant Professor in Mechanical Engineering

Faculty

Faculty of Engineering and Technology

School/Program

School of Engineering/

B.Tech. in Mechanical Engineering

Faculty Introduction

Dr. Basavarajappa S, Assistant Professor in the Department of Engineering Design, Faculty of Engineering and Technology, GM University, Davanagere. He holds a Ph.D. in Mechanical Engineering Sciences from Bapuji Institute of Engineering, and Technology, Davanagere (VTU, Belagavi, 2023). With 12 years of teaching and 3 years of industrial experience. His research interests include heat transfer, fluid mechanics, energy systems, computational fluid dynamics (CFD), and electronics cooling, with active engagement in teaching and applied research in thermal and energy engineering.

Qualifications

Ph.D. (Mechanical Engineering Sciences)

Visvesvaraya Technological University (VTU), Belagavi, 2023

M.Tech. (Thermal Power Engineering)

Visvesvaraya Technological University (VTU), Belagavi, 2013

BE (Mechanical Engineering)

Visvesvaraya Technological University (VTU), Belagavi, 2010

Experience

Teaching

- 10 Years at G M Institute of Technology, Davanagere
- 2 Years at PESITM, Shivamogga

Industry

- 2 Years at LUWA India PVT Ltd, Bengaluru.
- 1 year at Innovative Engineering and Tool Room, Bengaluru.

Research

- Heat transfer Analysis in heat exchanger, Electronics Cooling analysis, Renewable Energy.



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Training Program Attended

- Workshop on “Industrial Hydraulics & Pneumatics” at BIET, Davanagere, 23rd to 25th 2025.
- Application Software for Enhanced Course Delivery (ASECD) on AUTO CAD 3D TOOL, on October 3-5, 2024, Department of Engineering Design, GM University, Davanagere
- Two days workshop on ‘Automation Technology in Manufacturing’, at Indian Machine Tool Manufacturer’s Association (IMTMA) and Festo India Private Limited, Bengaluru. October, 23-24, 2019.
- One week AICTE-ISTE Approved Short Term Training Program on “Advances in Fluid Mechanics Experimental & Computational”, Don Bosco College of Engg., Fatorda, Goa, January, 8-12, 2018.

Research Interest

- Heat Transfer
- Computational Fluid Dynamics
- Energy Engineering
- Electronics Cooling

Awards & Achievements

- Nil

Publication / Patents

- **Ph.D. Dissertation:**
 - **Personal Doctoral Research**
Title: Experimental Investigation and Heat Transfer Process in concentric Tubes Fitted with Extended Surfaces

Institution: Bapuji Institute of Engineering and Technology, Davanagere, affiliated to Visvesvaraya Technological University Belagavi.

Year of Award: 2023

Field of Research: Heat Transfer (Experimental and Computational Analysis)
- **National Conference Papers:**
 - “*Micro structural Evolution and Mechanical Response of TiSrMo Alloy Processed by CIP,*” presented at the National Conference on Advances in Mechanical Engineering (MARS-AI 2025), GM University, Davanagere, Karnataka.



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- **International Conference Papers:**

- “CFD simulation of producer gas fuelled SI engine,” presented at the International Conference on Composite Materials: Manufacturing, Experimental Techniques, Modeling and Simulation (ICCEMS 2020), presented at G M Institute of Technology, Davanagere, Karnataka, India May 15–6, 2020.
<https://iopscience.iop.org/article/10.1088/1757-899X/925/1/012058/meta>
- “Computational study of heat transfer enhancement in double pipe heat exchanger using helical fins” presented at International Conference on the Confluence of Advancements in Robotics, Vision and Interdisciplinary Technology Management (IC-RVITM). RV Institute of Technology & Management, Bengaluru. Karnataka, India November 28-29, 2023.
<https://ieeexplore.ieee.org/document/10435115>

International Journal Papers:

- Basavarajappa S, Mallikarjuna V Bidari, Mujeebulla Khan Guttal, (2014) “Modelling, Thermal Design and Thermal Analysis of an Electronic Unit”, International Journal of Engineering Sciences & Research Technology (IJESRT), ISSN 2277-9655, Volume 03, Issue 01, pp 472-480, published in January 2014.
<https://paper.researchbib.com/view/paper/24422>
- Ganesha T, N Jagadeesh, Basavaraja K, Basavarajappa S,. (2017) “Biodiesel Production from Calophyllum Inophyllum Oil using Ultrasonication Method and Investigation of its Properties with Diesel and Kerosene Blends”, International Journal of Innovative Research in Science, Engineering and Technology(IJIRSET) Volume 06, Issue 08, pp 1-7, Published in August 2017.
<https://www.cabidigitallibrary.org/doi/full/10.5555/20183152466>
- S Basavarajappa, G Manavendra, SB Prakash,. “A review on performance study of finned tube heat exchanger” (2020) Journal of Physics: Conference Series. pp 1-11, Published in



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March 2020. <https://iopscience.iop.org/article/10.1088/1742-6596/1473/1/012030/meta>

- S Basavarajappa, G Manavendra, SB Prakash,. “Enhancement of Heat Transfer in Double Pipe Heat Exchanger – A Numerical Analysis”(2022) International Journal of Research and analytical Review(IJRAR), Volume 9, Issue 4,pp.,520-526, Published on October 2022. <https://ijrar.org/papers/IJRAR22D1062.pdf>

- **Book Chapter:**

- N. B. Pradeep, S. Parameshwara, S. G. Chethan, V. Lokesh, T. S. Harish, S. Basavarajappa, and K. B. Girisha,. “Mechanism of Ball Milling and the Factors Affecting the Process of Milling”, (2024), Published in Springer Natural, Journal PP., 1-11, Published on November 2024. <https://link.springer.com/book/10.1007/978-981-97-6504-1>

Professional Membership

- Indian Society for Technical Education. (Membership No. LM 108227) (Life Member)

Awards & Recognitions

Nil

Administrative Responsibilities

- Department Level:
Research and Development,
- University Level:
Green and Energy audit committee member,
5s system auditor.
Diesel Generator mechanical maintenance in-charge.

Workshops / FDPs / Seminars Attended

- Two-Day Product Design Workshop on 22nd and 23rd August 2025, organized by GM University, in association with the Idea Lab. Offline mode.
- 5 days AICTE-ATAL FDP on “Computational Fluid Dynamics – A potential Engineering Design Tool”, Centurian University of Technology and Management, Gajapati, Odisha, Date 26 to 30-01-2021. Online mode.
- 5 days FDP on “Information & Communication Technology (ICT) and Outcome Based Education (OBE)”, GMIT, Davangere, Date 21 to 25-01-2020. Offline mode.



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- Faculty Development Programme “Heat Exchangers: Fundamentals and Design Analysis” (12 weeks FDP) Organised by: IIT, Kharagpur. July – Oct 2019. Online mode.
- Workshop on “Intellectual Property Rights (IPR)(KSCST-GMITIPR Cell approved two-day workshop) Organized by KSCST _GMITIPR- Date: 17th – 18th September 2018 Offline mode.
- AICTE-ISTE approved 6 days Induction/Refresher Program on “Recent Advances in IC Engines- Research and Issues” organized by department of Mechanical Engineering GM institute of Technology, Davanagere. Date: 23rd – 28th July 2018 Offline mode
- Two Workshop on “Advanced Mathematical Techniques in Research and Engineering” organized by Departments of Mathematics and IQAC GM institute of Technology, Davanagere. Date: 29thd – 28th January 2018 Offline mode.
- Five days AICTE-ISTE Approved Short Term Training Program on “Advances in Fluid Mechanics Experimental &Computational Organized by Don Bosco College of Engg., Fatorda, Goa - Date: 8th – 12th January 2018 Offline mode.
- Three day FDP on “Feel Teacher” Learning and Development Intervention organized by GM Institute of Technology, Davangere and conducted by CLHRD, Mangalore, from 27 through 29 July 2015, at GM Institute of Technology, Davangere. Offline mode.
- Five days FDP on “ Thermal Management of Electronic Equipments” organized by department of Mechanical Engineering, PES institute of Technology, Bengaluru, Date: 4th – 8th March 2013 Offline mode.

Workshops / FDPs / Seminars Organized

Nil

Projects Guided

- **UG Projects**
 - Kumar H., Ravi Verma, Pradeep Kumar., and Naik (2015-16). *Design and development of biomass and performance analysis by using rice Husk.*
 - Abhishek V. S., Adarsh D. C., Akhil A. K., and Bharath Kumar C. (2016-17). *Performance Analysis of Biomass Gasifier.*



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- Prajwal K., Prajwal K. M., Rajesh Nayak, Veeravenkata Nagasai Y. (2017-18). *Analysis of IC Engine with Homogeneous Combustion in Porous Medium.*
- Basavaraj C. Hulagabali, Basavaraj Hosakeri, Mahantesh Prakash Vali,, and Mohan Hulakoti. (2018-19). *Heat Transfer Enhancement and Performance Analysis of Heat Exchanger.*
- Akhilesh K. B., Kishorakumar K. M., Lokesh R. B., and Rakesh Hullal. (2019-20). *Development of Hybrid Electric Bicycle.*
- Amaresh K., Punith B. O., Amith K. S., and Rakshit.(2020-21). *Performance Analysis of Heat Transfer Enhancement in a Heat Exchanger Using Fins.*
- Beeresh B N, Sharath E, Kirankumar M., and Ajay N M. (2021-22). *Experimental Analysis of Double Pipe Heat Exchanger In Parallel and Counter Flow Arrangement.*
- Akash G. S., Beerasha G. M., Sagar N. H., and Sanjay B. N. (2022-23). *Experimental Study of Heat Transfer Enhancement and Pressure Drop Characteristics in Double Pipe Heat Exchanger Using Extended Surfaces.*
- Gombi Ravikiran, Manasa J., Kotresh H. G., and Bindu Shree B. R. (2023-24). *Battery Thermal Management System for Electric Vehicles using MATLAB.*
- Manjunath G. M., M'd Mallik Rehan,, and Mallikarjun K. M. (2024-25). *Development of A Prototype Autonomous Electric Vehicle.*
- Asif B. M., Umaiz Ahamed,, and Umraj K. (2024-25). *Development of A Prototype Autonomous Electric Vehicle.*
- Darshan D. Palankar, Varsha A. Raichur., and Chethan B. R. (2024-25). *Development of Eco-Plastic From Fish Scale.*
- Deepika D., Dhanvanthkumar H., Kiran Teggin,, and Siddappa M. U. (2024-25). *Development of Portable Horizontal Axis Wind Mill.*

Funded Projects / Grants Received

- Design and development of biomass and performance analysis by using rice Husk, Name of Principal Investigator: Basavarajappa S, Mechanical Engineering department, GMIT, KSCST Grant, Amount Sanctioned Rs. 6,000/-, AY - 2015–2016.



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- Battery thermal management system for electrical vehicle using mat lab. Name of Principal Investigator: Basavarajappa S, Mechanical Engineering department, GMIT, KSCST Grant, Amount Sanctioned Rs. 5,000/-, AY - 2023–2024.
- K-Tech NAIN-Development and Characterization of Bio Plastic from Fish Scales, Name of Co-Principal Investigator

- Any Other Contributions

Coordinating offline software training program on Lab VIEW under LEAP, GM university