

PROFILE

Name	Dr. BHARATH L
Position & Affiliation	Associate Professor, Department of ME
Areas of Interest	Manufacturing Engineering, Computer Numerical System, Operation Research, Operation Management.
Email	bharath.mech@cambridge.edu.in
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Professional Webpage (if any)	-

Educational Qualifications:

Ph. D	Visvesvaraya Technological University	India	2022
MTech	Manipal University	India	2012
BE	Visvesvaraya Technological University	India	2010

Areas of Research:

Composite Materials, Optimization Technique, Analysis of Variance, Regression Analysis etc

Brief Profile: (write about yourself)

Dr. Bharath L is an Associate Professor in the Department of ME. His academic interests include computer integrated manufacturing, metal forming and machining process, operation research, material science, metal casting and welding. In addition to his interest in academics, he also focuses on research in the area of metal matrix composite materials, Taguchi Orthogonal Arrays by using Mini Tab software,

He holds a B.E. degree in Mechanical Engineering from Visvesvaraya Technological University and an M. Tech degree in Manufacturing Engineering and Technology from the Manipal Institute of Technology (Deemed University) and obtained Ph. D under Visvesvaraya Technological University. He has participated in various workshops and faculty development programs held by various colleges / universities.

He has around 12+ years of teaching experience and is associated with Cambridge Institute of Technology from 2016.

Guided B.E. and M. Tech students in their seminars and project dissertations.

Awards/Achievements/Others:

- Received **BEST PAPER AWARD** for the paper entitled “*Optimization of ductility and yield strength on Al2024/B4C composite material using Taguchi Technique*” in the International Virtual conference on Robotics, Automation, Intelligent Systems and Energy (IVC-RAISE 2020) which is held on 15th December **2020**, organized by the Department of Mechatronics Engineering, Kongu Engineering College, Perundurai.
- Received **BEST PAPER AWARD** for the paper entitled on “*Influence of process parameters on tensile strength and hardness of AW2024/B4C composite using Taguchi’s technique*” in the International Conference on Materials and System Engineering (ICMSE-2021) held on 7 - 8th May **2021**, by Department of Mechanical Engineering, SJBIT, Bengaluru, India.

Courses Taught:

Operation Research, Elements of Mechanical Engineering, Operation Management, Computer Aided Design and Manufacturing, Automation and Robotics, Production Engineering.

Publications/Patents:

Publications

- “*Aluminium Matrix Composites – A Review*” Indian Foundry Journal, Issue 10, Vol. 64, Oct. 2018, PP. 21-26.
- “*Formation and evaluation of tensile Strength and hardness properties of Al2024 alloy reinforced with boron Carbide particulates*” IJRAR, Issue 1, ISSN 2348-1269, Vol. 7, Jan. 2020, PP.494-501.
- “*Influence of Process Parameters on the Mechanical Properties of Al-Cu alloy by Taguchi’s Technique*” Aegaeum journal, Issue 7, ISSN 0776-3808, Vol. 8, July 2020, PP.881-887.
- “*Influence of boron carbide, heat treatment on ductility and yield strength of Al2024 alloy*” ISER, Issue 7, ISSN 2229-5518, Vol. 11, July 2020, PP.13-17.
- “*Optimization of ductility and yield strength on Al2024/B4C composite material using Taguchi Technique*” IOP Conference Series: MSE, Vol. 1055, Feb. 2021, PP.01-10. DOI 10.1088/1757-899X/1055/1/012117.
- “*Influence of process parameters on tensile strength and hardness of AW2024/B4C composite using Taguchi’s technique*” Elsevier Materials Today – Proceedings, Vol. 47, Part 10, 2021, PP.2345-2350. DOI: 10.1016/j.matpr.2021.04.308.
- “*Optimization of process parameter on yield strength and ductility on Al7075/SiC/Gr. Hybrid composite by using Taguchi’s technique*” Elsevier Materials Today – Proceedings, Vol. 47, Part 10, 2021, PP.2370-2375. DOI: 10.1016/j.matpr.2021.04.322.
- “*Evaluation of UTS and compression strength of Al2024/B4C composites by experimental method and validation through regression analysis*” Elsevier Materials Today – Proceedings, Vol. 59, Part 1, 2022, PP.25-30. DOI: 10.1016/j.matpr.2021.10.066.

- *“Synthesis, Properties and Characterization of Nanofluid - A Critical Review”* IJERT, ISSN (Online): 2278-0181, Vol. 10, Issue: 09, Sep. 2021, PP. 641- 644. DOI: 10.17577/IJERTV10IS090218.
- *“Validation of hardness and tensile strength of Al-Mg alloy reinforced with silicon carbide and graphite hybrid composite by regression equation”* Elsevier Materials Today – Proceedings, Vol. 59, Part 1, 2022, PP.562-567. DOI: 10.1016/j.matpr.2021.12.079.
- *“Investigation on Hardness of Al7075/Gr./SiCp Hybrid Metal Matrix Composites”* IJERT, ISSN (Online): 2278-0181, Vol. 10, Issue: 02, Feb. 2021, PP. 566 – 569, DOI: 10.17577/IJERTV10IS020209.
- *“Mechanical Characterization of Copper and Aluminium Powder Reinforced Epoxy Polymer Composites”* IJERT, ISSN (Online): 2278-0181, Vol. 12, Issue: 03, March 2023, PP. 101 – 104, DOI: 10.17577/IJERTV12IS030071.
- *“Evaluation of microstructure and prediction of hardness of Al–Cu based composites by using artificial neural network and linear regression through machine learning technique”* Multiscale and Multidisciplinary Modeling, Experiments and Design, SPRINGER, 12th July 2024, DOI: 10.1007/s41939-024-00525-0.

Patents

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Book/Book
Chapters

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Research and Consultancy:

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