

CURRICULUM VITAE

Sharath H K

Assistant Professor
Department of Mechanical Engineering
Malnad College of Engineering (MCE)
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EDUCATIONAL BACKGROUND

Degree	University	Subject	Academic Year	Percentage
Ph.D.	Visvesvaraya Technological University (MCE)	Mechanical Engineering	Pursuing (Comprehensive Viva completed)	-
M.Tech.	Visvesvaraya Technological University (MCE)	Industrial Automation & Robotics	2013	71.96
B.E.	Visvesvaraya Technological University (MCE)	Industrial and Production Engineering	2011	74

EMPLOYMENT DETAILS

Employer	Post held	Date of Joining	Date of Leaving
Malnad College of Engineering (MCE), Hassan	Assistant Professor	21 August 2013	Till date

CURRICULAR PROJECTS

M-Tech Thesis: Automated Book Picking Robot for Libraries

Ph.D. Title: Studies on the Machining of Inconel 718 using Cryogenic treated Cemented Carbide Cutting Tool Inserts and Non edible Vegetable Oil as Cutting Fluid

RESEARCH AREA

❖ Metal Cutting, Cryogenics & Tribology

CERTIFICATION COURSE

1. **IUCEE International Engineering Educator Certification Program**, Organized by Indo-Universal Collaboration for Engineering Education, Spring 2020.
2. **Design Thinking- A Primer**, Indian Institute of Technology Madras, NPTEL Online Certification Course, Jan-Feb 2023 (4 weeks)

SHORT TERM COURSE/ WORKSHOPS/ WEBINARS ATTENDED

1. Workshop on **“International Quality Management Systems ISO 9001”**, February 24 & 25, 2009, Malnad College of Engineering, Hassan
2. FDP on **“Empowering Teachers”**, October 24 to 25, 2013, Malnad College of Engineering, Hassan
3. Training Programme on **“Hydraulic, Pneumatic Systems in Industrial Automation”**, January 27 to 29, 2014, Malnad College of Engineering, Hassan
4. FDP on **“Analytical and Numerical Techniques in Applied Mathematics and Engineering”**, July 28 to 2 August 2014, Malnad College of Engineering, Hassan
5. FDP on **“Essential Skills for Mechanical Engineers”**, September 1 to 5, 2014, Malnad College of Engineering, Hassan.
6. FDP on **“Advances in Bio-Lubricants and Cutting Fluids”**, December 8 to 12, 2014, Malnad College of Engineering, Hassan
7. FDP on **“Feel Teacher”**, June 6 to 11, 2016, Malnad College of Engineering, Hassan
8. Workshop on **“Virtual Laboratory”**, February 16, 2017, Malnad College of Engineering, Hassan
9. FDP on **“Emerging Trends in Materials and Manufacturing Technology”**, February 27 to March 3, 2017, Malnad College of Engineering, Hassan
10. FDP on **“Geometric Dimensioning & Tolerancing”**, March 20 to 24, 2017, Central Manufacturing Technology Institute, Bengaluru
11. FDP on **“Challenges in Non Conventional Energy Sources”**, April 9th to 13th 2018, Malnad College of Engineering, Hassan
12. FDP on **“Total Quality Management”**, May 28 to June 1, 2018, Malnad College of Engineering, Hassan
13. FDP on **“Recent Trends in Automotive Technology”**, June 25th to 29th 2018, Malnad College of Engineering, Hassan
14. Workshop on **“Essentials for Academic Research”**, July 20, 2018, Malnad College of Engineering, Hassan
15. Workshop on **“Outcomes Based Education(OBE)”**, August 04-05, 2018, Malnad College of Engineering, Hassan
16. FDP on **“Design of Thermal Systems”**, 27th to 31st August 2018, Malnad College of Engineering, Hassan

17. FDP on **“Being a Great Teacher”**, 3rd & 4th November, 2018, Malnad College of Engineering, Hassan
18. FDP on **“Feel Teacher- Developing, Counselling, Mentoring”**, 2nd November, 2019, Malnad College of Engineering, Hassan
19. Webinar conducted by ICT Academy on **‘Future of AI inspired by customer use cases for AI-ML’**, 09 April 2020
20. Webinar conducted by ICT Academy on **‘The Future of Making’**, 14 April 2020
21. FDP on **“Technological Trends in Industry”**, June 29 – July 3, 2020, Vemana Institute of Technology, Bengaluru.
22. FDP on **“Trends in Energy Conservation Technologies”** during July 6 - 11, 2020, organised by Vidyavardhaka College of Engineering, Mysuru.
23. FDP on **“Recent Advances and Trends in Mechanical Engineering & Material Science”**, during July 27 - 31, 2020, organised by K.S.Institute of Technology, Bengaluru.
24. FDP on **“Heating, Ventilation, Air Conditioning & Refrigeration (HVAC & R)”**, during August 3-8, 2020, organised by Vidyavardhaka College of Engineering, Mysuru.
25. **‘Refresher course on Advanced Pedagogy’**, during January 24-February 4, 2022, organised by National Institute of Technical Teachers Training and Research, Kolkata.
26. FDP on **“Renewable Energy for Sustainable Development”**, during March 1-5, 2022, organised by Bharatratna Indira Gandhi College of Engineering, Solapur.
27. Workshop on **‘Introduction to Fusion 360’**, July 18, 2022, Malnad College of Engineering, Hassan.
28. FDP on **‘Recent Trends in Mechanical Engineering’**, during August 8-16, 2022, organised by Fabtech Technical Campus, College of Engineering & Research, Sangola.
29. Workshop on **“Geometric Dimensioning and Tolerancing”**, 28 & 29 September, 2022, Malnad College of Engineering, Hassan.
30. FDP on **“Train the Trainers in Process Automation”**, 10 to 15 April, 2023, DST-FIST Centre for Innovative Teaching Learning and Research, Malnad College of Engineering, Hassan.

PUBLICATIONS

Journals

1. **Sharath H.K.** and Shivashankar B.S., **“Book Handling Robot for Libraries”**, International Journal of Engineering Research & Technology (IJERT), Vol. 2 Issue 8, August – 2013
2. Veena C D, **Sharath H K**, Sree Rajendra & Shivashankara B S, **“Design and Fabrication of PLC and SCADA based Robotic Arm for Material Handling”**, International Research Journal of Engineering & Technology (IRJET), Vol. 5, Issue 6, June – 2018

3. Ranjith A V, Sree Rajendra, Shivashankara B S, **Sharath H K**, “*Intellectual 4way Traffic Control System Using PLC and SCADA*”, International Research Journal of Engineering & Technology (IRJET), Vol. 5, Issue 6, June – 2018

Conferences

1. Pramod R, **Sharath H K**, “*Automated Sheet Metal Forming Tool*”, International Conference on Materials, Manufacturing and Machining for Industry 4.0 (ICMMM 2.0), held on October 9th & 10th, 2020.
2. Sumana U, **Sharath H K**, “*Automation of the Special Purpose Machine to Perform Boring Operation on Rocker Arm*”, International Conference on Materials, Manufacturing and Machining for Industry 4.0 (ICMMM 2.0) held on October 9th & 10th, 2020.
3. Lakshmikantha J C, **Sharath H K**, “*Design & Development of a Robotic Workcell to Reduce Human Intervention and Increase Productivity*”, National Conference on Recent Innovations in Mechanical Engineering (RIME’2k21), held on 18th November 2021.

Book Chapter

1. Jeevan, T.P., **Sharath, H.K.**, Divya, H.V. (2024). *Advances and Trends in Industrial Lubrication*. In: Sinha, S.K., Kumar, D., Gosvami, N.N., Nalam, P. (eds) Tribology for Energy, Environment and Society. ICOIT 2022. Lecture Notes in Mechanical Engineering. Springer, Singapore. https://doi.org/10.1007/978-981-99-9264-5_6

M.Tech. PROJECT SUPERVISION

1. Veena C D, *Design and Fabrication of PLC and SCADA based Robotic Arm for Material Handling*, 2018
2. Niha Shariff, *Segregation of metals and non-metals by using PLC and SCADA*, 2019
3. SAVITHA T C, *PLC and SCADA based irrigation system to monitor the moisture content of agriculture fields*, 2019
4. PRAMOD R, “*Design and Fabrication of PLC Based Automated Sheet Metal Forming Tool*”, 2020
5. SUMANA U, “*Design and Development of an Automated Material Handling System for Sansera Bore Finishing Machine*”, 2020
6. LAKSHMIKANTHA J. C., “*Design and development of a Robotic work cell to reduce human intervention and increase productivity*”, 2021

ACHIEVEMENTS

1. Delivered invited lecture in ‘Proof Reading & Book Design’ workshop conducted for research scholars by Dr. Ramamanohara Lohiya Study Centre, Kannada University, Hampi on 23-5-2024 & 24-5-2024.
2. Secured consolation place for the product ‘Automated Sheet Metal Forming Tool’ in

‘Anveshana’, a National Level Prototype Competition held on 23rd February 2024 organized by BMS Innovation Centre and Entrepreneurship Park, BMS Institute of Technology and Management.

3. Participated in Academia Pavilion of IMTEX Forming-2024 held during 19-23 January 2024 and organized by Indian Machine Tool Manufacturer’s Association at Bengaluru and exhibited the project ‘Automated Sheet Metal Forming Tool’.
4. Participated as subject expert of Trilingual Glossary of Engineering (English-Hindi-Kannada) held at Malnad College of Engineering, Hassan from 23-5-2022 to 27-5-2022 organised by Commission for Scientific & Technical Terminology (CSTT), New Delhi.
5. Received financial aid for publishing book ‘Modala Todal’ from Kannada Pustaka Pradhikara in 2014
6. Columnist for the news website ‘Eedina’
7. Regular contributor for leading Kannada daily ‘Prajavani’
8. Wrote two books titled ‘Modala Todal’ & ‘Belakina Beli’ in Kannada

PERSONAL DETAILS

Address: ‘Prajodaya’, Behind Dental College, Vivekananda road, Vidyanagar (p), Hassan (T) & (D), Karnataka 573202

Date of Birth: 17th January 1990, Married, Nationality: Indian

Language: Kannada & English