

Dr. Ashrith H S

☎: +91 – 9844883545

✉: ashuhiriyal@gmail.com

Scopus Author ID: 57201913212

Google Scholar ID: [Ashrith H S - Google Scholar](#)

ORCID ID: 0000-0001-7118-1476



Objective:

Be affiliated with a prestigious organisation in improving the standards of profession and empowering them with necessary skills, qualities, knowledge, attitude, and value of time.

Academic qualification:

Course	University	Institution	Batch	Percentage/CGPA
Ph. D (Mechanical Engineering)	National Institute of Technology Karnataka, Surathkal	National Institute of Technology Karnataka, Surathkal	2019	8.0 (Course work)
M. Tech (Manufacturing Science and Engineering)	Visvesvaraya Technological University, Belgaum	M S Ramaiah Institute of Technology, Bangalore	2011	9.22 (CGPA)
B.E (Mechanical Engineering)	Visvesvaraya Technological University, Belgaum	Malnad College of Engineering, Hassan	2009	65.84%

Work experience:

S. No.	Position held	Name of the institution	From	To
1	Lecturer	Rajeev Institute of Technology, Hassan, Karnataka	18/07/2011	31/08/2012
2	Assistant Professor	Rajeev Institute of Technology, Hassan, Karnataka	01/09/2012	04/07/2015
3	Research Scholar	National Institute of Technology Karnataka, Surathkal, India	06/07/2015	20/12/2018
4	Senior Assistant Professor	Mangalore Institute of Technology & Engineering, Moodabidri, Karnataka	21/01/2019	23/05/2019
5	Assistant Professor	Malnad College of Engineering, Hassan	21/08/2019	Till date

Subjects handled:

- Elements of Mechanical Engineering
- Computer Aided Engineering Drawing
- Additive Manufacturing
- Kinematics of Machinery
- Manufacturing Process
- Aircraft Material Science
- Mechanics of Materials
- Metal forming

Additional responsibilities:

- Working as IQAC Department coordinator
- Working as Internship Coordinator
- Working as student mentor
- Member of Dept. Academic Committee, R&D and consultancy committee, BOS & BOE
- Worked as Timetable and Exam Coordinator
- Developed laboratory manuals
- Worked as coordinator for organising seminars and invited talks
- Initiated and maintained the Department Library
- Developed and implemented detailed lesson plans
- Guided, led, and mentored students in project works
- Worked with the Department for achieving accreditation from NBA

Areas of Interest:

- Syntactic foam fabrication
- Machining of polymer matrix composites
- Characterization of polymer composites
- Optimization techniques (PSO, FFD, RSM and ANN)

Mechanical Tools:

- Solid Works
- ANSYS
- Minitab-18
- MATLAB
- Design-Expert.

Internship:

- **Summer Internship Program, Kumamoto University, Kumamoto-Japan.**

Have undergone Summer Internship Training at Kumamoto University, Kumamoto-Japan in March 2018. During the program visited various research laboratories in the Kumamoto University. Internship included various technical discussions regarding problems in the research.

Journals and Conferences:

1. Ashrith, H. S., Jeevan, T. P., & Divya, H. G. V. (2023). *3D Printing of Crystalline Polymers*. Polymer Crystallization: Methods, Characterization and Applications, 233-254. <https://doi.org/10.1002/9783527839247.ch9> (Book Chapter).
2. Ashrith, H. S., Jeevan, T. P., & Xu, J. (2023). *A Review on the Fabrication and Mechanical Characterization of Fibrous Composites for Engineering Applications*. Journal of Composites Science, 7(6), 252. <https://doi.org/10.3390/jcs7060252> (MDPI, Scopus)
3. Divya, H. V., Jeevan, T. P., Ashrith, H. S., & Rudresh, B. M. (2022). *Effect of wood filler on the mechanical and thermal behavior of polypropylene/short glass/short carbon fiber-reinforced hybrid composites*. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 44(7), 1-19. <https://doi.org/10.1007/s40430-022-03573-0> (Springer, SCIE, IF= 2.220)
4. Ain Q. U., Ashrith H. S., Singh M. K., & Jeevan T. P. (2022). *Containers with Lubricating Agents for Friction and Wear*. In Micro-and Nano-containers for Smart Applications (pp. 243-263). Springer, Singapore. https://doi.org/10.1007/978-981-16-8146-2_11 (Book Chapter).

5. Ashrith H S and Mrityunjay Doddamani (2021). *Point angle effect on drilling of closed cell foams*. Composites Part C: Open Access. <https://doi.org/10.1016/j.jcomc.2021.100179> (Elsevier, Scopus)
6. T. P. Jeevan, S. R. Jayaram, Asif Afzal, H. S. Ashrith, Manzoore Elahi M. Soudagar & M. A. Mujtaba (2021), *Machinability of AA6061 aluminium alloy and AISI 304L stainless steel using nonedible vegetable oils applied as minimum quantity lubrication*. Journal of the Brazilian Society of Mechanical Sciences and Engineering. <https://doi.org/10.1007/s40430-021-02885-x> (Springer, SCIE, IF= 2.220)
7. Ashrith H S, Mrityunjay Doddamani & V N Gaitonde (2019). *Effect of wall thickness and cutting parameters on drilling of glass microballoon/epoxy syntactic foam composites*. Composite Structures; <https://doi.org/10.1016/j.compstruct.2018.12.022> (Elsevier, SCI, IF= 5.65)
8. Ashrith, H. S., Doddamani, M., Gaitonde, V., & Gupta, N. (2018). *Hole Quality Assessment in Drilling of Glass Microballoon/Epoxy Syntactic Foams*. JOM, 70(7), 1289-1294; <https://doi.org/10.1007/s11837-018-2925-x> (Springer, SCI, IF= 2.471)
9. Ashrith, H. S., Doddamani, M., Gaitonde, V., & Gupta, N. (2018). *Influence of materials and machining parameters on drilling performance of syntactic foams*. Materials Performance and Characterization, 7(1), 495-514; <https://doi.org/10.1520/MPC20170166> (ASTM International, Scopus)
10. Ashrith, H. S., Jeevan, T. P., & Doddamani, M. (2021). *Experimental investigation on the machinability characteristics in drilling of syntactic foams*. In IOP Conference Series. Materials Science and Engineering, 1189(1); <https://doi.org/10.1088/1757-899X/1189/1/012022>.
11. B.N. Sharath, T.P. Jeevan, Maughal Ahmed Ali Baig, H.S. Ashrith, Asif Afzal, Avala Raji Reddy (2021). *Machinability studies on boron carbide and graphite reinforced aluminium hybrid composites*. Materials Today: Proceedings, 46 (17), 8734-8741; <https://doi.org/10.1016/j.matpr.2021.04.036> (Scopus).
12. Angadi, S. B., Ashrith, H. S., Gaitonde, V. N., Karnik, S. R., & Doddamani, M. (2019). *Experimental investigations on hole quality in drilling of cenosphere reinforced epoxy composite*. In IOP Conference Series: Materials Science and Engineering, 561(1), 012039; <https://doi.org/10.1088/1757-899X/561/1/012039> (Scopus).
13. Ashrith H, S., Doddamani, M., & Gaitonde, V. (2018). *Evaluation of circularity error in drilling of syntactic foam composites*. In American Institute of Physics Conference Series, 1943(2), 20065; <https://doi.org/10.1063/1.5029641> (Scopus).
14. Ashrith, H. S., Jeevan, T. P., & Doddamani, M. Experimental investigation on the machinability characteristics in drilling of syntactic foams. International Conference on Trends in Mechanical Engineering Sciences (ICTMES-2020), April 10-12, Hassan, India, 2020.
15. S B Angadi, Ashrith H S, Mrityunjay Doddamani, V N Gaitonde and S R Karnik. *Experimental investigations on hole quality in drilling of cenosphere reinforced epoxy composite*. First International Conference on Materials Science and Manufacturing Technology (ICMSMT-2019), April 12-13, Coimbatore, Tamil Nadu, India, 2019.
16. Ashrith H S, Mrityunjay Doddamani & V N Gaitonde. *Experimental investigation on the machinability characteristics in drilling of epoxy syntactic foam*. 7th International Engineering Symposium - IES 2018, March 7-9, Kumamoto University, Japan, 2018.
17. Ashrith H S, Mrityunjay Doddamani & V N Gaitonde. *Evaluation of circularity error in drilling of syntactic foam composites*. International Conference on Design, Materials & Manufacture, January 29-31, NITK Surathkal, 2018.
18. Ashrith H S, Mrityunjay Doddamani, V N Gaitonde & Nikhil Gupta. *Machinability Study of Syntactic Foams*. Proceedings of the 10th International Conference on Precision, Meso, Micro and Nano Engineering, 456-459, December 07-09, IIT Madras, 2017.
19. Ashrith H S, Mrityunjay Doddamani, V N Gaitonde & Nikhil Gupta. *Surface roughness evaluation in drilling of syntactic foams*. International Conference on Advances in Polymer Science and Technology, November 23-25, IIT Delhi, New Delhi, 2017.

20. Ashrith H S and Sridhar B S. *Asbestos friction material used for clutches – review*. National Conference on Emerging Trends in Mechanical Engineering (NCETME-2011), June 08-09, MSRIT, Bangalore, 2011.

Awards and Recognition:

- Received grant under Research Promotion Scheme of Rs. 14.67 lakh from AICTE
- MHRD Scholarship for Pursuing Ph.D. during July-2015- December-2018.
- JASSO Scholarship at Kumamoto University, Japan during March-2018.

Certification Course, Workshops & FDP:

- Participated in Two-week Short Term Training Programme (STTP) course on “*Refresher course on Advanced Pedagogy*” organised by National Institute of Technical Teachers' Training & Research (NITTTR), Kolkata, from 24th January to 4th February 2022.
- Participated in One-week Faculty Development Programme on “Recent Developments in Advanced Materials Processing Techniques and Characterization” organised by Department of Chemistry, School of Engineering, Presidency University, Bengaluru, from 21st to 25th February 2022.
- Participated in 5 days Faculty Development Programme on “Design Thinking” organised by Visvesvaraya Technological University, Mysore, from 07th to 12th March 2022.
- Completed 12 weeks SWAYAM certification course on “*Introduction to Composites*” conducted by NPTEL, MHRD, GOI.
- Participated in one-week FDP on “3-D Printing and Design” organised by BMSCE, Bangalore during 01-05 Sep 2020.
- Completed 8 weeks SWAYAM certification course on “*Road Map for Patent Creation*” conducted by NPTEL, MHRD, GOI.
- Participated in two-week FDP on “*Lightweight Structures for Engineering Applications through Composites and Topology Optimization*” organised by GEC Hassan during 27-01-2020 to 07-02-2020.
- Completed 16 weeks SWAYAM certification course on “*Refresher Course on Teacher and Teaching in Higher Education*” conducted by NPTEL, MHRD, GOI.
- Participated in one-week GIAN course on “*Dynamic Response of Advanced Composites*” at NITK Surathkal organized by GIAN, MHRD and GOI during December 10-14, 2018.
- Completed certificate course on “*Materials Characterization*” organized by IIM-HRD, The Indian Institute of Metals, Chennai Chapter & IIT Madras, July 12-15, 2016.
- Participated in one-week GIAN course on “*3D Printing & Additive Manufacturing*” at NIT Warangal organized by GIAN, MHRD and GOI during June 20-24, 2016.
- Participated in one-week GIAN course on “*Hybrid composites: Manufacturing, Mechanics and Materials*” at NITK Surathkal organized by GIAN, MHRD and GOI during December 18-22, 2016.
- Participated in a two-day workshop on “*Advances in Stress Analysis and Dynamics*” sponsored by TEQIP-II held at NITK Surathkal during March 16-17, 2017.
- Participated in a three-day workshop on “*Laser Processing of Materials*” sponsored by TEQIP-II held at NITK Surathkal during March 09-11, 2017.

- Participated in a one-week FDP on “*Advances in Bio-Lubricants and Cutting Fluids*” organized by MCE, Hassan during December 08-12, 2014.
- Participated in a four-day FDP on “*Insights into sustainable steel Manufacturing Practices*” held at JSW Steel, Toranagallu, Bellary during July 16-19, 2013.
- Participated in a one-day workshop on “*Composite Materials & Its Applications*” organized by Dr. AIT, Bangalore on April 24, 2013.

Ph.D. thesis on:

“Machinability characteristics in drilling of Glass microballoon/Epoxy Syntactic Foam”

Different types of syntactic foam composites are developed by varying the glass microballoon content and wall thickness. The effect of various input parameters on the machinability characteristic of developed foam composites is studied during drilling using coated carbide tools. Main objective of the work is to develop regression models based on response surface methodology for predicting the responses and optimized the process parameters using Grey Relation Analysis for producing quality holes in drilling of lightweight syntactic foams widely used in Aerospace, Automobile and Marine applications.

Personal Information:

Name	: Ashrith H S
Father's Name	: Shivegowda H S
Date of Birth	: 02 nd June 1987
Nationality	: Indian
Marital Status	: Married
Gender (M/F/T)	: M
Religion	: Hindu
Caste	: Vokkaliga
Permanent Address	: #1-15, Keshava Road Indiranagar, Sathyamangala Layout Hassan-573201 Karnataka, India.
Mobile Number	: +91 98448 83545
E-mail id.	: ashuhiriyal@gmail.com

I hereby declare that all the above information is true to the best of my knowledge.



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