




DAYANANDA SAGAR ACADEMY OF TECHNOLOGY AND MANAGEMENT

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)

Opp. Art of Living, Udayapura, Kanakapura Road, Bangalore- 560082

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Accredited NBA, NAAC with A+, New Delhi

Faculty Name	Dr Ashok Kumar M S	
Academic Designation	Assistant Professor	
Educational Qualification	BE, M. Tech, Ph.D	
Experience in Years	12	
Area of Interest	Composite Materials	
Date of Birth	12/09/1984	
Aadhar No	233845504642	
PAN No	AKGPA9143C	
Email ID	ashok-me@dsatm.edu.in	

Educational Details

- Ph.D - Awarded in the Year 2020
- M.Tech (Computer Integrated Manufacturing) in the year 2010 from PES College of Engineering Mandya
- B.E (Mechanical Engineering), Sri Venkateshwara College of Engineering in the Year 2007.

Personal Details

- Date of Birth: 12/09/1984
- Hobbies: Traveling, Carrom
- Languages Known: Kannada, English and Hindi

Professional Experience

- Worked as Lecturer in Mechanical Engineering Department at PES College of Engineering Mandya from Feb 2010 to July 2011.
- Working as Assistant Professor in Mechanical Engineering Department at Dayananda Sagar Academy of Technology & Management from Aug 2011 to till date.

Publications

International Journals:

- Presented Technical Paper Titled “Statistical Analysis for Detecting Tool wear in turning A356 MMC with 20% SiC using GMDH” - International Conference on Futuristic Trends in Mechanical Engineering (ICFTME-2012), held at Thiruvalluvar College of Engineering and Technology, Vandavasi on January 28th and 29th 2012. Global Journal of Mechanical Engineering & Computer Science, 2012: 2 (2) 2012: Pp.95-99. **ISSN 2277-6664(95-99)**
- Presented Technical Paper Titled “Evaluation of Tribological Properties of A356-Al₂O₃

Metal Matrix Composites” Honnaiah C, Ashok Kumar M S* and S L Ajit Prasad. International Journal of Mechanical Engineering and Robotics Research, India. ISSN 2278 – 0149 ,Vol. 3, No. 2, April 2014© 2014 IJMERR.

- Published technical paper “Experimental Investigations on Mechanical & Tribological Properties of Extruded Aluminium A356 - Al₂O₃ Stir Cast MMC” in Materials Today Publication, Proceedings 5 (2018) 3044 – 3051. [10.1016/j.matpr.2018.01.105](https://doi.org/10.1016/j.matpr.2018.01.105)
- Published technical paper “Influence of Extrusion Process on Mechanical and Tribological Properties of Aluminium A356 – Al₂O₃ Stir Cast MMC” in Materials Today Publication, Proceedings 5 (2018) 26918 – 26924. [10.1016/j.matpr.2018.08.179](https://doi.org/10.1016/j.matpr.2018.08.179)
- Published technical paper “Microstructural Characterization of Microwave Processed Al-SiC_p Metal Matrix Composites Subjected to Extrusion”, Applied Mechanics and Materials, Trans Tech Publications Ltd, Switzerland,ISSN: 1662-7482, Vol. 895, pp 115-121 [10.4028/www.scientific.net/AMM.895.115](https://doi.org/10.4028/www.scientific.net/AMM.895.115)
- Published technical paper “Wear Characteristics of Aluminium MMCs Subjected to Extrusion Process”, IOP Conference Series: Materials Science and Engineering 1013 (2021) 012017, IOP Publishing [10.1088/1757-899X/1013/1/012017](https://doi.org/10.1088/1757-899X/1013/1/012017)
- Published technical paper “Design and Fabrication of Motorized Stirrer Mechanism for Stir Casting Furnace” MAT Journals, Journal of Recent Trends in Mechanics, E-ISSN: 2582-3213, Volume 4 Issue 3. [10.5281/zenodo.3573308](https://zenodo.org/doi/10.5281/zenodo.3573308).
- Published technical paper “Design and Fabrication of Bottom Pouring Type Stir Casting Furnace With Carrier Gas” MAT Journals, Journal of Advancement in Machines, E-ISSN: 2582-2233, Volume 4 Issue 3. [10.5281/zenodo.3574306](https://zenodo.org/doi/10.5281/zenodo.3574306)
- Published technical paper “Machinability Study of Aluminium Metal Matrix Composite (Al6061 - SiC)” MAT Journals, Journal of Fluid Mechanics and Mechanical Design, E-ISSN: 2582-2233, Volume 2 Issue 1. [10.5281/zenodo.3786119](https://zenodo.org/doi/10.5281/zenodo.3786119).
- Published technical paper “Evaluation of Mechanical Properties of Natural Fibre Reinforced Polymer Composites” MAT Journals, Journal of Recent Activities in Production, E-ISSN: 2581-9771, Volume 6 Issue 2. Pp. 33-39
- Published technical paper “An Introduction to Robotics & Its Configuration” MAT Journals, Journal of Automation and Automobile Engineering, E-ISSN: 2582-3159, Volume 5 Issue 3. Pp. 39-42.
- Published technical paper “Effect of Natural Reinforcements on Mechanical Properties of MMCs Processed by Stir Casting” MAT Journals, Journal of Advancements in Material Engineering, E-ISSN: 2582-0036, Volume 5 Issue 3. Pp. 21-24.
- Published technical paper “Effect of Natural Reinforcements on Mechanical Properties of MMCs Processed by Stir Casting” MAT Journals, Journal of Advancements in Material Engineering, E-ISSN: 2582-0036, Volume 5 Issue 3. Pp. 21-24.
- Published technical paper “Hybrid Air Conditioning System Using Solar Heater” MAT Journals, Journal of Thermal Energy Systems, E-ISSN: 2582-5747, Volume 5 Issue 3. Pp. 8-13.[10.46610/JoTES.2020.v05i03.002](https://doi.org/10.46610/JoTES.2020.v05i03.002)

International Conferences:

- Presented technical paper Titled “ Prediction of Tool Wear by Group Method of Data Handling (GMDH)” at International conference on Emerging Trends in Engineering, ICETE-2011 at NMAM, Nitte.
- Presented Technical Paper Titled “ Studies on A356 –Al₂O₃ Metal Matrix Composites” at International Conference on Science, Engineering and Management in Education and Research – A Global Perspective at Dayananda Sagar Institutions, Bangalore-82, on 26-27th September 2013.
- Presented Technical Paper titled “Experimental Investigations on Mechanical & Tribological Properties of Extruded Aluminium A356 - Al₂O₃ Stir Cast MMC” at International conference on Advances Materials & Applications (ICAMA 2016)

15/6/2016 -17/6/2016 at BMS College of Engineering Bangalore.

- Presented Technical Paper titled “Influence of Extrusion process on Mechanical and Tribological Properties of Aluminium A356 - Al₂O₃ Stir Cast MMC” at International conference on Advances in Materials & Manufacturing (ICAMM 2016) 8/12/2016 - 10/12/2016 at OSMANIA University Hyderabad. E-ISBN: 978-93-86256-19-5.
- Presented Technical Paper titled “Mechanical and Tribological Characterization of Aluminium based Hybrid Metal Matrix Composites” at International conference on Advances in Mechanical Engineering and Sciences (ICAMES 2017) 21/04/2017 - 22/04/2017 at PES college of Engineering, Mandya in association with Institute for Engineering Research and Publications (IFERP). DOI: 01.1617/vol1iss4pid002323
- Presented Technical Paper titled “Experimental study of Fatigue characteristics of Al-SiC-MoS₂ Hybrid Metal Matrix Composites” at International conference on Advances in Mechanical Engineering and Sciences (ICAMES 2017) 21/04/2017 -22/04/2017 at PES college of Engineering, Mandya in association with Institute for Engineering Research and Publications (IFERP). DOI: 01.1617/vol1iss4pid002323
- Presented Technical Paper titled “Evaluation of Mechanical and Tribological Behaviors of As Cast and Extruded Aluminium A356 – Al₂O₃ – MoS₂ Hybrid MMCs” at International conference at Industrial Tribology at Kolkatta (ICIT 2017) 06/12/2017 - 09/12/2017 organized by Tribology society of India and Balmer Lawrie Co Ltd.
- Presented Technical Paper titled “Structural characterization of Microwave Processed Al-SiC_p Metal Matrix Composites Subjected to Secondary Processing” International Conference on Green Trends in Mechanical Engineering Sciences (3-5 October 2018 at Malnad College of Engineering, Hassan.
- Presented Technical Paper titled “Evaluation of Mechanical Properties of Aluminium Hybrid MMCs” First International Conference on Advanced Technologies in Intelligent Control, Environment, Computing and Communication Engineering (ICATIECE-2019) 2019 at Dayananda Sagar Academy of Technology & Management, Bangalore on 19th-20th March,

National Conferences:

- Presented technical paper Titled “An Insight into Rapid Manufacturing of IN VIVO Devices” at National Conference on Rapid Prototyping and Manufacturing –RPM 2009 at R.V.College Of Engineering. Bangalore.
- Presented technical paper Titled “ Manufacturing of *In vivo* Devices using Rapid Prototyping Techniques” at National conference on Advances in Mechanical Engineering NAME2010 at JNNCE , Shimoga .
- Presented Technical Paper Titled “Influence of Cutting forces in Machining of Aluminium Metal Matrix Composite (A356 - Al₂O₃)” Harsha R, Kaushik Kumar, Satish.M, Ashok Kumar.M.S. National Conference on Emerging Trends in Engineering & Technology at G. Madegowda Institute of Technology (GMIT) Bharathinagara (K.M.Doddi), Mandya- 571422.
- Presented Technical Paper Titled “Experimental investigations on Surface Roughness of Aluminium Metal Matrix Composite (A356 - Al₂O₃)” Vijay.C.Parihar, Mukkaram Sultan, Suraj.S, Ashok Kumar.M.S. National Conference on Emerging Trends in Engineering & Technology at G. Madegowda Institute of Technology (GMIT) Bharathinagara (K.M.Doddi), Mandya- 571422 .
- Presented Technical Paper Titled “Emerging trends in Mechanical Engineering”, Sandeep.s, Chiranth.R, Ashok Kumar.M.S. National Conference on Emerging Trends in Engineering & Technology at G. Madegowda Institute of Technology (GMIT) Bharathinagara (K.M.Doddi), Mandya- 571422.
- Presented Technical Paper Titled “Rapid Prototyping”, V.M.Chirag, Puneeth.G,

Shreyas.S.P, Ashok Kumar.M.S. National Conference on Emerging Trends in Engineering & Technology at G. Madegowda Institute of Technology (GMIT) Bharathinagara (K.M.Doddi), Mandya- 571422.

- Presented Technical Paper Titled “A Study on Mechanical Behaviour of Aluminium Based MMC Reinforced With Alumina (A356-Al₂O₃)”, Krishna Murthy, Ashok Kumar.M.S, S.L.Ajit Prasad, 1stNational Conference on Advances in Mechanical Engineering at AMC College of Engineering Bangalore-83.
- Presented Technical Paper title “Design and Analysis of Fairlead Component of ARRV” at 2nd National Conference on Convergence of Science, Technology & Management (NCCSTM) 2016 at Dayananda Sagar Academy of Technology & Management, Bangalore, May 2016. ISBN: 978-93-84935-97-9.
- Presented Technical Paper Titled “Experimental investigations on Surface Roughness of Aluminium Metal Matrix Composite (A356 - Al₂O₃) Krishna Murthy, Ashok Kumar.M.S, S.L.Ajit Prasad,1stNational Conference on Advances in Mechanical Engineering at AMC College of Engineering Bangalore-83.
- Presented Technical Paper Titled “A Study on Mechanical Behaviour of Hot Extruded Aluminium Based MMC Reinforced With Varying Alumina Particles (A356-Al₂O₃) Ashok Kumar.M.S, Honnaiaha.C, Swetha at 5thNational Conference on Emerging Trends in Engineering Technology at Jyothi Institute of Technology Bangalore-83.
- Presented Technical Paper titled “A Study on Mechanical Properties of Aluminium Based MMC Reinforced with Varying Percentage of Alumina (A356-Al₂O₃)” ASHOK KUMAR.M.S, RAM SAMARTH, SHANTANU M S at National Conference on Recent Advances in Materials (NCRAM -2017) held at APS college of Engineering, Bangalore on 30th August 2017.
- Presented Technical Paper title “GEPARD The E- Commuter (Electric Bicycle)” at 4th National Conference on Convergence of Science, Technology & Management (NCCSTM) 2018 at Dayananda Sagar Academy of Technology & Management, Bangalore, May 2018. ISBN: 978-93-85682-54-4.

Conference Attended

Seminar Attended

Workshop Attended**Patents published with All Details****Research Grants fetched with File No.****Student Project Funds Fetched with Grant No.****Consultancy Amount Fetched with Details****Awards**

Secured 1st Rank and Gold Medal in M.Tech

Academic Activity

- NAAC Coordinator

Faculty Development Activity/Workshops

- Carried out Industrial Training in Government Tool Room and Training Center, Mysore, during the period of III semM.tech.
- Participated in the Short Term Training Programme on Advances in Design, Manufacturing and Analysis of Composites and Smart Materials, STTP 2010 at N.I.T.K, Suratkal.
- Participated in the Faculty Development Programme on Teaching Methodologies in Thermodynamics, THERMODYN-2011 at G.S.S. Institute of Technology, Bangalore.
- Participated in the Faculty Development Programme on Finite Element Modelling and Analysis at Maharaja Institute of Technology, Mysore.
- Participated in the Two days workshop on composites at N.I.E, Mysore

- Chief Faculty Advisor for Developing Go- Kart Vehicle for the SAE members at Dayananda Sagar Academy of Technology & Management.
- Trainer for Rexroth Bosch Hydraulics & Pneumatics drive control system at Dayananda Sagar University, Bangalore.
- Participated in one day workshop on composites at B M S College of Engineering, Bangalore.
- Participated in one week refresher programme on “Design of Machine Elements” at VidyaVardhaka College of Engineering, Mysore from 2/7/2018 to 7/7/2018.
- Participated in 3 Days workshop on “Teaching Learning Methodologies” at Dayananda Sagar Academy of Technology & Management, Bangalore from 26/7/2018 to 28/7/2018.
- Participated in 5 Day Faculty Development Programme on “Research Opportunities on Materials and Manufacturing” at Dayananda Sagar Academy of Technology & Management, Bangalore from 16/1/2019 to 20/1/2019.
- Participated in 3 Days FDP on “NAAC” at Dayananda Sagar Academy of Technology & Management, Bangalore from 31/1/2019 to 2/2/2019.
- Participated in 2 Days FDP on “Intellectual Property Rights” at Dayananda Sagar Academy of Technology & Management, Bangalore from 14/02/2019 to 15/02/2019.
- Participated in 5 Days FDP on “Recent Innovations in Manufacturing” at Dayananda Sagar Academy of Technology & Management, Bangalore from 28/6/2019 to 2/7/2019.
- Participated in 1 Day workshop on “Virtual Labs” at ATME College of Engineering, Mysore on 26/10/2019.
- Participated in 5 Days FDP on “Augmented and Virtual Reality Interfaces for 3D Printing” at Dayananda Sagar Academy of Technology & Management, Bangalore from 28/01/2020 to 01/02/2020.
- Participated in webinar on “Semiconductor Science and Technology” organized by Department of physics, Sapthagiri College of Engineering, Bangalore on 12/06/2020.
- Participated in “E-Quiz on CAED” organized by School of Mechanical Engineering, Reva University Bangalore on 13/6/2020.
- Participated in webinar on “Intellectual Property Rights Patent Filing Procedure” organized by Mechanical Engineering Department, Shetty Institute of Technology, Kalaburagi Bangalore on 15/6/2020.
- Participated in Quiz on “Faculty Awareness on NBA” Organized by Department of Electrical and Electronics Engineering, Mallareddy College of Engineering and Technology, Hyderabad on 16/6/2020.
- Participated in Quiz on “Material Sciences” Organized by Department of Mechanical Engineering, Sir M Visvesvaraya Institute of Technology, Bangalore on 16/6/2020.

Contact Details

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