




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 MECHANICAL ENGINEERING

Accredited NBA, NAAC with A+, New Delhi

Faculty Name	Dr. MANOHAR .H.S	
Academic Designation	Associate Professor & Head	
Educational Qualification	BE., M.Tech.(MMD), Ph.D.	
Experience in Years	14 Years	
Area of Interest	Metal Matrix Composites, Nano & Hybrid Composites, Design,	
Date of Birth		
Email ID	hodmech@dsatm.edu.in dr.manoharphd@gmail.com	

Educational Details

- Ph.D.– 2014- Jawaharlal Nehru Technological University Ananthapur, Anantapuramu, Andhra Pradesh, India.
- M.Tech. – 2007 – Visvesvaraya Technological University, Belagavi, Karnataka, India.
- B.E. –2005 – Visvesvaraya Technological University, Belagavi, Karnataka, India.

Personal Details

- **Date of Birth:** 27/04/1983
- **Hobbies:** Reading Books, playing Cricket, etc.
- **Languages Known** – Kannada, English, Hindi, Telugu

Professional Experience

- Worked as: Sr.Lecturer in M.V.J.C.E from March 2008 to 10th July 2010
- Worked as: Asst. prof , in CMR Institute of Technology, Bangalore, from 14th July 2010 to 30th July 2013
- Worked as: Associate Professor & HOD (M.Tech and Research Center),in SEA College of Engineering & Technology, Bangalore, from 5th Aug 2013 to 27th July 2018
- Worked as: Associate Professor in D.S.A.T.M from 20th August to 18th December 2018
- Working as: Head of the Department in D.S.A.T.M from 18th December 2018 to Till Date

Publications

International Journals:

- H.S. Manohar, N.Chikkanna, B.UmaMaheswarGowd, and M.Krishna, “**Effect of Heat Treatment on Damping Properties of Nanoclay Particulate Reinforced MMCs**”, **International Journal of Recent Technology and Engineering, IJRTE**, Volume-1, Issue-1, April 2012, PP.38-42.
- H.S. Manohar, N.Chikkanna, and B.UmaMaheswarGowd, “**Effect of Addition of Nanoclay on Machinability of Al/Nanoclay Metal Matrix Composites** “**International Journal of**

Engineering Research and Applications, IJERA, Vol. 2, Issue 5, September- October 2012.

- N. Krishnamurthy¹, H. S. Manohar¹, M. S. Prashanthareddy,² and H. P. Raju,³ **“A Study of Parameters Affecting Wear Resistance of Alumina and Yttria Stabilized Zirconia Composite Coatings on Al-6061 Substrate” International Scholarly Research, Network, ISRN Ceramics, Volume 2012, Article ID 585892, 13 pages doi:10.5402/2012/585892.**
- G.V Krishna Reddy, N.Chikkanna, H.S Manohar, B.Umamaheswar Gowd, **“Experimental Evaluation of Thermal Transport Characteristics of MMC’s for heat Sink Material for Electronics Cooling” International Journal of Advanced Engineering and Nano Technology (IJAENT) ISSN: 2347-6389, Volume-1, Issue-4, March 2014**
- G.V Krishna Reddy, H.S Manohar, N.Chikkanna, B.Umamaheswar Gowd, **“Evaluation and Enhancement of Thermal Transport Characteristics of Metal Matrix Composites and Contact Interfaces” International Journal of Emerging Science and Engineering (IJESE) ISSN:2319-6378, Volume-2, Issue-5, March 2014.**
- KG.Srinivas¹, N.Chikkanna², Manohar.HS³ **“Optimize the Casting Process Parameters for Mechanical Properties of Al/Carbon Black MMCs by Statistical Technique” : International Journal of Research in Engineering & Technology (IMPACT: IJRET) ISSN(P): 2347-4599; ISSN(E): 2321-8843 Vol. 5, Issue 2, Feb 2017, 1-8**
- ¹K.G.Srinivas, ²N.Chikkanna, ³Manohar.H.S, ⁴Sreenivasa Reddy, **“Effect of Carbon Black Content on Coefficient of Thermal Properties of Al/Carbon Black Composites” International Journal of Mechanical Engineering; ISSN Print: 2319-2240; ISSN Online: 2319-2259.**
- KG.Srinivas¹, N. Chikkanna², Manohar.HS³ **“ Effect of Ageing Temperature on Fatigue Behavior of Carbon Black Reinforced Aluminium Composites” International Academy of Science, Engineering and Technology” Volume 6, Issue 2, Feb 2017**
- ^[1]Dr.Manohar H S, ^[2]Lakshmikanth C, ^[3]Puneeth Kumar M V **“Investigating the effect of reinforcement on corrosive erosive properties of Al/Nanoclay Metal matrix composites” International Journal of Engineering Research in Mechanical and Civil Engineering (IJERMCE) Vol 2, Issue 5, May 2017, ISSN (Online) 2456-1290**
- ^[1]Srinivas Reddy Mungara, ^[2]Dr.Manohar H S, ^[3]Thimmaraju L H **“Effect on Addition of Reinforcement on Mechanical Properties of Al7050/B4C Metal Matrix Composites” International Journal of Engineering Research in Mechanical and Civil Engineering (IJERMCE) Vol 2, Issue 5, May 2017, ISSN (Online) 2456-1290**
- ^[1]Dinesh M, ^[2]Niranjan.G, ^[3]Dr.Manohar HS **“Fabrication and Investigation on Hardness Behavior of Aluminium Hybrid Metal Matrix Composites (Al8010 Reinforced with TIC and Nanoclay Particles)” International Journal of Engineering Research in Mechanical and Civil Engineering(IJERMCE) Vol2, Issue 9, September 2017, ISSN (Online) 2456-1290.**
- Puneeth Kumar MV, T Krishna Rao, Manohar H S, Bharath V **“Effect of Boron Carbide on Tribological properties of Zinc Aluminium Metal matrix composites”, International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-8 Issue-2, July 2019**
- Sharan Teja Reddy. K¹, Manohar H. S², Vijee Kumar³ & Shanwaz Patil⁴ **“The Synthesis**

And Characterization of Silicon Nitride and Graphite Reinforced Aluminium Hybrid Metal Matrix Composites: A Review, International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)ISSN (P): 2249-6890; ISSN (E): 2249-8001 Vol. 8, Special Issue 6, Oct 2018, 889-893

- Sharan Teja Reddy ^{a,†}, H.S. Manohar ^b, S.N. Anand ^a **“Effect of carbon black nano-fillers on tribological properties of Al6061-Aluminium metal matrix composites”** Materials Today: Proceedings 20 (2020) 202–207
- H.S. Manohar ^{a,†}, Srinivas Reddy Mungara ^b, S.N. Anand ^c, K. Sharan Teja Reddy ^c **“Development and study on corrosion properties of Al6061/Nanocarbon black reinforced aluminium metal matrix composites”** Materials Today: Proceedings 20 (2020) 185–190
- Manjunath K, Dr. Thirtha Prasad H P, Dr. Manohar H S **“Microstructure and Hardness of Al2214 Alloy With Graphite Particulates”** International Journal of Production Technology and Management (IJPTM), Volume 11, Issue 1, January-June, 2020, pp. 1–7, Article ID: IJPTM_11_01_001
- Srinivas Reddy Mungara , H.S. Manohar, **“Study of mechanical characteristics of stir cast AA7050-B4C metal matrix ceramic composites”**, Materials Today: Proceedings, <https://doi.org/10.1016/j.matpr.2020.07.102>, 14 August 2020.
Dr. Anand SN, Dr. Manohar Hs,” Finite Element Structural Analysis of a Pit Viper 235 Main Frame” Journal of Scholastic Engineering Science and Management June 2021, Volume 1, Issue 3, pp: 19-31, SSRN: <https://ssrn.com/abstract=3882895>.

International Conferences:

- H.S. Manohar¹, N.Chikkanna², B.UmaMaheswar Gowd³ “Effect of addition of nanoclay on Wear behaviour of Al/nanoclay Metal Matrix Composites” Recent Advances in Material Science (RAMS-2012), 6-8 November 2012,PP85
- N.Chikkanna¹, H.S. Manohar², B. Uma Maheswar Gowd³ “Effect of Heat treatment on Micro-hardness & Electrical properties of Nanoclay Particulate Reinforced MMCs” Recent Advances in Material Science (RAMS-2012), 6-8 November 2012,PP 86-87.(Awarded as **Best Orally Presented Paper of the Conference RAMS-2012**)

Conference Attended

Seminar Attended

- “Practical Approach Towards Structural analysis using CAE ”on 01 Jun 2020.
- “Understanding NAAC Benchmarks” on 06 Jun 2020 & 07 Jun 2020 at Sita Ram Arya Memorial college of Education, Haryana.
- “Fundamentals of Hybrid Vehicle” on 12 May 2020.
- “Adsorption cooling Technologies” Organised by Mechanical Engineering Dept of gopalan college of engineering and Management, Bangalore on 1st July 2020.
- “Investigation of the effects of cracks on Vibrations Parameters of a Cantilever Beams” Presented by Dr Vikas R Khalkar, Department of Mechanical Engg, Gharda Institute of Technology, Ratnagiri, held on 07 July 2020
- “Future Approach To Aerospace Vehicle Design” Presented by Ms Aishwarya Dhara ,

Assistant Professor, Department of Aerospace Engineering Chandigarh University, Organised by Department of Mechanical Engineering, Francis Xavier Engineering college, Tirunelveli on 06 July 2020.

- “An Insight Into Fluid Mechanics in Mechanical & Civil Engineering ” 5th June 2020 Organized by Department of Mechanical and Civil Engineering SAE College of Engineering and Technology, Bangalore.
- “NanoFluids in Solar Energy Utilization” Presented by Dr A.Valan Asasu, Professor Department of Mechanical, Thiagarajar College of Engineering, Madurai. Organized by Department of Mechanical Engineering, Francis Xavier Engineering College, Tirunelveli on 11 July 2020.
- “IPR and e – content Development” Organized by Rajaram college, Kholapur, held on 8th,9th,10th June 2020.
- “EPR for Plastic Waste Management in Indonesia” on 10th June 2020 held by CSEAS in Co-operation with EU project on Rethinking plastic.
- “Machining of Titanium alloys using various Technologies” Presented by Dr Eriki Ananda Kumar, Professor Department of Mechanical and Automotive Engineering, FIVETI University Ethiopia, Organized by Department of mechanical engineering, , Francis Xavier Engineering college, Tirunelveli on 13 June 2020.
- “Refrigerants in Engineering Applications” on 22nd June 2020,Organized by Department of Mechanical Engineering, Vidyavardhaka College of Engineering, Mysuru.

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

- **Best Teacher Award** from the Department of Mechanical Engineering for the Academic Year 2008-09 at MVJ College of Engineering, Bangalore.
- **Third Prize for Best Project Work under VTU** for the Academic Year 2010-11 conducted at Reva Institute of Technology, Bangalore.
- **Received best orally presented Paper certificate** at International Conference on Recent Advances in Material Science -RAMS-2012.
- Authored a book on **FINITE ELEMENT METHODS** for 6th semester Mechanical Engineering Students.
- Authored a book on **ELEMENTS OF MECHANICAL ENGINEERING** for 1st semester Mechanical Engineering Students.

Academic Activity

- Imitated MAKER SPACE Platform, for the students to showcase the Innovative Ideas, at DSATM, Bangalore-82
- Developed 3D Printing Laboratory (3D HUB) in the Department of Mechanical Engineering ,DSATM, Bangalore-82
- Developed R&D Center which involves in Synthesis and Characterization of Metal Matrix and Hybrid Metal Matrix Composites at SEA College of Engineering & Technology.
- Supervising 5 Students For Ph.D Program Under VTU, Belagavi
- Co-Supervising 1 Students For Ph.D Program Under SRM University
- Organized Workshop on “Solar and Smart Energy Systems” held during 19-20, September 2014 at SEA College of Engg., & Technology, Bangalore (co-organized with Placement Cell) (2 days).
- Convener of VTU-VGST sponsor FDP on “Finite Element Methods in Structural Mechanics”, held during 5-8, August 2013 at SEA College of Engg., & Technology, Bangalore (4 days).
- CO-Organizer of one-day Workshop on “Manufacturing Excellence” held on 24th November, 2009 at MVJ College of Engineering, Bangalore (1 day).

Faculty Development Activity/Workshops

- “Research Areas in Mechanical Engineering “ Organised by Department Of Mechanical Engineering , CMR Institute Of Technology , Bangalore from 28th June to 3rd July 2020.
- “ Advance Trends in Mechanical Engineering” jointly Organized by Department of Mechanical Engineering , University College of engineering(A), Osmania University and Lords Institute of engineering and Technology, Hyderabad, during 22 June 2020 to 27 June 2020
- “Advancements and Futuristic Trends in Materials and Mechanical Engineering” Organized by Industry Institute Interaction Cell, Department of Mechanical Engineering. BIT, Bangalore on 27th to 31th July 2020.
- “Advanced Materials, Machining and Characterization,” Organized by Department of Mechanical Engineering , on 6th to 10th July 2020, by Sir MVIT , Bangalore.
- “Trends in Energy Conservation Technologies” Organized by Vidyavardhaka College of Engineering, Mysuru, on 06 Nov 2020.
- “ Enhancing Research Work Of PHD Aspirants Through Systematic Approach “ Organized by Lokmanya Tilak College of Engineering, Mumbai, on 8th to 10th June 2020.
- “Role of Teachers in Quality Enhancement & Accreditation” Organized by Santhiram Engineering College , Nandyal, on 5th to 11th June 2020.
- “ Research Trends In Mechanical Engineering “ Organized by Gudlavalleru Engineering College, Gudlavalleru, on 15th to 20th June 2020.
- “Advances in Machining Process”, ‘Organized by Department of mechanical Engineering , PES Institute Of Technology, Shivamogga, on 17th to 19th June 2020.
- “Emerging Engineering Materials” ‘Organized by Department of mechanical Engineering in association with ISME from 1st to 5th June 2020.
- “Advanced Materials, Machining and Characterization,”
- “Research Proposal Writing and Opportunities in the field of science, Engineering and Management” ‘Organized by R & D Centre – BIT Bangalore from 6th to 11th July 2020.
- ADDITIVE MANUFACTURING: THE RESEARCH SCOPES & FUTURE TRENDS ‘Organized by Santhiram Engineering College , Nandyal on 22th to 28th May 2020.
- “Technological Trends in Industry” Organized by Vemana Institute of Technology Bangalore On 29 June To 3rd July.

Contact Details

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