Profile

Name of the Faculty	Dr. M. Devaiah	
Designation	Professor	-
Department	Mechanical Engineering	-
Area of Interest	Manufacturing, Composite Materials, production, 3D Printing, Additive Manufacturing	6
Subjects Taught	Engineering Graphics, Engineering Mechanics, FMHM, FMHM Lab, MOS, MOS Lab, MMS, MMS Lab. Operations Research, Optimization Techniques, Renewable Energy Sources (NCES), Environmental Studies	R.
JNTUH Registration Id	41150402-133226	
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Educational Qualifications:

S. No.	Degree	Specialization University/College		Year
1	BE	Mechanical Engineering	Osmania/CBIT	1997
2	M.Tech	Industrial Metallurgy	Kakatiya/NIT Warangal	2000
3	PhD	Mechanical Engineering	Osmania	2013

Paper Publications:

S. No.	Publication details			
1	Malkapuram Devaiah, D., Pothula Chucharitha., and Jaweed Shaik, "Design, Aerodynamic Analysis, and Fabrication of Agricultural Drone", SAE Technical Papers,			

	WCX, E-ISSN: 0148–7191, 2021, SCOPUS Indexed, Web of Science (ESCI) Indexing, CiteScore: 0.47, SJR: 0.360, SNIP: 0.528, H-Index: 107, doi.org/10.4271/2021-01-0809.
2	Malkapuram Devaiah, "Development of Hybrid Natural Fiber Reinforced Epoxy Matrix Composites with SiC as Filler," SAE Technical Papers 2021-01-0357, E-ISSN: 0148– 7191, 2021, SCOPUS Indexed, Web of Science (ESCI) Indexing, CiteScore: 0.47, SJR: 0.360, SNIP: 0.528, H-Index: 107, doi.org/10.4271/2021-01-0357.
3	Dr. M. Devaiah, Thermal Properties of Hybrid natural reinforced polymer matrix composites with SiC as filler, SAE Technical Papers, SAE International, 2018-28-0047, E-ISSN: 0148–7191, 2020, SCOPUS Indexed, Web of Science (ESCI) Indexing, CiteScore: 0.47, SJR: 0.360, SNIP: 0.528, H-Index: 107, DOI:10.4271/2020-28-0047
4	Dr. M. Devaiah*, Bhasker Bommara, P. Laxmi Reddy, M. Ravindra Gandhi, "Thermal Characterization of Fiber Reinforced Polymer Composites and Hybrid Composites" International Journal of Mechanical Engineering and Technology (IJMET), Volume 10, Issue 04, February 2019, pp. 153 - 165, SCOPUS Indexed, CiteScore: 2.13, SJR: 0.119, SNIP: 0.215, H-Index: 10,
5	Dr. M Devaiah, Rajasekhar Vangala, N Rajendar and K Raju, "Comparison of mechanical properties For carbon, e-glass and hybrid (carbon & e-glass) composites" International Journal of Mechanical Engineering and Technology (IJMET), Volume 10, Issue 02, February 2019, pp. 407-417, SCOPUS Indexed, CiteScore: 2.13, SJR: 0.119, SNIP: 0.215, H-Index: 10,
6	Dr.M. Devaiah, Nithin Kumar, P Sandeep Kumar, P Sudheer Rao, "Experimental Investigation of Microstructure and Mechanical Properties of Brass - Iron Joined by TIG welding Process" Lecture Notes In Mechanical Engineering, Springer. Paper accepted to publish. SCOPUS Indexed, Web of Science (ESCI) Indexing, CiteScore: 0.16, SJR: 0.129, SNIP: 0.180, H-Index: 6,
7	Devaiah, Malkapuram, SEM and Fractography Analysis of SiCp/Al2O3 Ceramic Matrix Composites Prepared Through Directed Metal Oxidation Process of Al Alloy (October 6, 2018). The IUP Journal of Mechanical Engineering, Vol. XI, No. 4, October 2018, pp. 27- 39, Available at SSRN: <u>https://ssrn.com/abstract=3383345</u> .
8	Devaiah Malkapuram and Prasad, T Siva, Manufacturing of Die Using Rapid Prototyping Technique (November 6, 2018). The IUP Journal of Mechanical Engineering, Vol. XI, No. 4, November 2018, pp. 69-79, Available at SSRN: <u>https://ssrn.com/abstract=3383362</u> , UGC Approved Journal.
9	Dr. M. Devaiah* , T. Siva Prasad, "Experimental Study of Lost Foam Casting", Journal of Future Engineering and Technology, ISSN: 0974-6536, Vol. 13, Issue 4, Pp. 46 – 52, UGC Approved Journal, Indian Citation Indexed (ICI) .
10	M. Devaiah, Coefficient Of Thermal Expansion And Elastic Modulus Of SiCp/Al ₂ O ₃ Ceramic Matrix Composites Prepared By Directed Metal Oxidation Process, SAE Technical Papers, SAE International, 2018-28-0047, E-ISSN: 0148–7191, 2018, SCOPUS Indexed, Web of Science (ESCI) Indexing, CiteScore: 0.47, SJR: 0.360, SNIP: 0.528, H-Index: 88, DOI:10.4271/2018-28-0047
11	M. Devaiah, Mathematical Model Validation of Experimental results of SiCpAl ₂ O ₃ Ceramic Matrix Composites Prepared by Directed Metal Oxidation of an Al Alloy, SAE Technical Papers, SAE International, 2018-28-0046, E-ISSN: 0148–7191, 2018, SCOPUS Indexed, Web of Science (ESCI) Indexing, CiteScore: 0.47, SJR: 0.360, SNIP: 0.528, H-Index: 88, DOI: 10.4271/2018 – 28 – 0046.
12	Dr.M. Devaiah*, A. Santhosh, Friction Stir Welding Of Aluminium 6082, SAE Technical Papers, SAE International, 2018-28-0051, E-ISSN: 0148–7191, 2018, SCOPUS

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	H-Index: 88, DOI: 10.4271/2018 – 28 – 0051.			
	Dr.M. Devaiah, K. Shiva Prasad Reddy and Karna Koti Reddy, "Designing and			
10	Simulation of Baler Included with Combine Harvester", Journal of Advanced Research in			
13	Dynamical and Control Systems, Volume 10, 8 - Special Issue, 2018, ISSN: 1943-023X,			
	pp.97 - 102, SCOPUS Indexed Journal. H index: 6, Impact Factor: 0.22. CiteScore:			
	0.19, SNIP: 0.135, SJR: 0.114, UGC Approved Indexing.			
	Dr.M. Devaiah , "Comparison of Thermal Conductivity Experimental Results of SiC _p /Al ₂ O ₃ Ceramic Matrix Composites with Mathematical Modelling", International			
14	Journal of Applied Engineering Research, ISSN 0973 - 4562 Volume 13, Number 6 pp.			
14	3784 - 3788 (2018), SCOPUS Indexed Journal. H index: 13, SJR: 0.199 SNIP: 0484,			
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_	Material Mild Steel". International Journal of Advanced Research Trends in Engineering			
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	M. Devaiah, S. Santhosh Kumar, V. Seshu Bai, T. Rajasekharan."Mechanical properties			
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	matrix composites prepared by directed oxidation of an aluminium alloy for wear			
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1,	Number 3, September (2012), pp 151-158. Impact factor: 0.558. WOS Indexing,			
	SCOPUS Indexing Journal and UGC Approved Indexing. H Index: 9, SNIP: 0.498,			
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	M. Devaiah, T. Srihari, and T. Rajasekharan. "Identification of Growth Promoter to			
18	Fabrication SiC _p /Al ₂ O ₃ Ceramic Matrix Composites Prepared by Directed Metal Oxidation of an Al Alloy". <i>Journal of Minerals and Materials Characterization and</i>			
10	Engineering, Volume 11, Number 11, November (2012), PP. 1063-1068. Impact factor:			
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24	S. Santhosh Kumar, M. Devaiah and T. Rajasekharan. "Fabrication of SiC/Al ₂ O ₃ CMCs & their physical properties". AIP Conference Proceedings, ISSN: 0094-243X, Web of Science (ESCI) Indexing, Scopus Indexing, UGC Approved, H Index: 54, SNIP: 0.300, SJR: 0.165, 1447, 1295 (2012); DOI: 10.1063/1.4710487.
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26	M. Devaiah , S. Santhosh Kumar, T. Srihari, and T. Rajasekharan. "Coefficient of thermal expansion and ultrasonic properties of SiC_p/Al_2O_3 ceramic matrix composites prepared by directed metal oxidation of aluminium alloy". Oral Presentation at the 5th International Conference Proceedings on Theoretical, Applied, Computational and Experimental Mechanics ICTACEM, 27-29, 2010, IIT Kharagpur-721302, INDIA, ISBN: 9789380813035
27	Dr.M. Devaiah , K. Shiva Prasad Reddy, " Designing and Simulation of Baler Included with Combine Harvester", Paper presented at International Conference on Trends in Engineering, Management, Pharmacy & Sciences (ICTEMPS-2018), 21 st April 2018, Geethanjali College of Engineering and Technology, Hyderabad, Telangana, INDIA, , pp 76 -79, ISBN 978-93-85100-86-4.
28	M. Devaiah, Shiva Prasad Reddy. K, N. Satya Guha,"Report on better performance on Engines". Oral Presentation at 1 st International Conference on "Innovations in Mechanical Engineering (ICIME -18) 5 th – 6 th January 2018, Gurunanak Institute of Engineering and Technology, Hyderabad-501203, Telangana, INIDIA, pp 76 -79, ISBN 978-93-85100-86-4.
29	Shiva Prasad Reddy. K, M. Devaiah, N. Satya Guha,"Report on modification of I.C.Engines". Oral Presentation at International Conference on "Applied Sciences, Engineering, Technology and Management (ICASETM -17)", 02 nd –03 rd November 2017, DRK Institute of Science and Technology, Hyderabad-501203, Telangana, INIDIA. Pp 23 - , ISBN: 978-81-932966-8-4.
30	Dr. M. Devaiah , Dr. D. Samuel John, R. Sudharshan and Dr. T. Siva Prasad, "Optimization of process parameters in Arc welding on material mild steel". Oral Presentation at International Conference on "Research Contribution in the New Era of Arts, Science, Engineering, management and Pharmacy", 6 th - 7 th August 2017, Hyderabad-501203, Telangana, INIDIA, pp 94 -102, ISBN: 13:978-1973775645.
31	Dr. D. Samuel John, Dr. M. Devaiah and Dr. T. Siva Prasad, "Spur Gear Drive Analysis of Static and Dynamics of High Contact Ratio". Oral Presentation at International Conference on "Research Contribution in the New Era of Arts, Science, Engineering, management and Pharmacy", 6 th - 7 th August 2017, Hyderabad-501203, Telangana, INIDIA, pp 116 -124, ISBN: 13:978-1973775645.
32	D. Samuel john, Dr. M. Devaiah and B. Subba Rao. "Analysis on the Impact of Bullwhip Effect (BWE) in Supply Chain Management". Oral Presentation at Proceedings of International Conference on Emerging Trends in Mechanical Engineering (ICETiME-

	2016), pp 233-239, 23 rd -24 th September 2016, Department of Mechanical Engineering,
	ICFAI Foundation of Higher Education Hyderabad-501203, Telangana, INIDIA.
	Samuel john, Dr. M. Devaiah and Dr. T. Siva Prasad. "Design and Fabrication of Solar
	Powered Lawn Mower with Linear Blades". Oral Presentation at Proceedings of
33	International Conference on Emerging Trends in Mechanical Engineering (ICETiME-
55	2016), pp 240-244, 23 rd -24 th September 2016, Department of Mechanical Engineering,
	ICFAI Foundation of Higher Education Hyderabad-501203, Telangana, INIDIA.
	B. Subba Rao, Dr. M. Devaiah , D. Samuel john, and G. Jagan Naik. "Agriculture
	Pesticide Sprayer using Solar Energy". Oral Presentation at Proceedings of International
34	Conference on Emerging Trends in Mechanical Engineering (ICETiME-2016), pp 348-
51	352, 23 rd -24 th September 2016, Department of Mechanical Engineering, ICFAI
	Foundation of Higher Education Hyderabad-501203, Telangana, INIDIA.
	Dr. T. Siva Prasad, Dr. M. Devaiah and D. Samuel john. "Effect of Burnishing on Surface
	Properties of Ferrous and Non-Ferrous Metals". Oral Presentation at Proceedings of
35	International Conference on Emerging Trends in Mechanical Engineering (ICETiME-
55	2016), pp 520-525, 23 rd -24 th September 2016, Department of Mechanical Engineering,
	ICFAI Foundation of Higher Education Hyderabad-501203, Telangana, INIDIA.
	M. Devaiah , S. Santhosh Kumar, T. Srihari, and T. Rajasekharan. "Al ₂ O ₃ –SiC Ceramic
	Matrix Composite: Physical Properties & Microscopic Features". Accepted for Poster
36	Presentation at the 3rd International Conference on Recent Advances in Composite
50	Materials –ICRACM 2010, ENSIL - ENSCI in Limoges (France), December 13-15,
- (P)	2010.
-	M. Devaiah , S. Santhosh Kumar, T. Srihari, and T. Rajasekharan. "SiC _p - Al ₂ O ₃ Ceramic
4	Matrix Composite for wear resistance applications". Accepted for Oral Presentation at the
37	International Conference on Interfaces and Interphases in Multicomponent Materials-
4	IIMM, Sheffield, UK, 1-3 September, 2010.
	M. Devaiah , S. Santhosh Kumar, T. Srihari, and T. Rajasekharan. "Mechanical
	properties of SiC _p /Al ₂ O ₃ ceramic matrix composites prepared by directed metal
38	oxidation of aluminium alloy". Oral Presentation at the National Symposium for
	Materials Research Scholars, MR-10, IITM, December 13-15, 2010.
	W Devalah S Santhosh Kumar T Srihari and T Ralasekharan "Physical properties of
39	M. Devaiah , S. Santhosh Kumar, T. Srihari, and T. Rajasekharan. "Physical properties of SiC _p /Al ₂ O ₂ ceramic matrix composites prepared by directed metal oxidation of
39	SiC _p /Al ₂ O ₃ ceramic matrix composites prepared by directed metal oxidation of
39	SiC _p /Al ₂ O ₃ ceramic matrix composites prepared by directed metal oxidation of aluminium alloy". Oral Presentation at the National Symposium for Materials Research
39	SiC _p /Al ₂ O ₃ ceramic matrix composites prepared by directed metal oxidation of aluminium alloy". Oral Presentation at the National Symposium for Materials Research Scholars, MR-10, IITM, December 13-15, 2010.
39	 SiC_p/Al₂O₃ ceramic matrix composites prepared by directed metal oxidation of aluminium alloy". Oral Presentation at the National Symposium for Materials Research Scholars, MR-10, IITM, December 13-15, 2010. M. Devaiah, A. Parusha Ram, T. Srihari, and T. Rajasekharan, "Elastic Properties of
	 SiC_p/Al₂O₃ ceramic matrix composites prepared by directed metal oxidation of aluminium alloy". Oral Presentation at the National Symposium for Materials Research Scholars, MR-10, IITM, December 13-15, 2010. M. Devaiah, A. Parusha Ram, T. Srihari, and T. Rajasekharan, "Elastic Properties of SiC_p/Al₂O₃ Ceramic Matrix Composites Prepared by Directed Metal Oxidation of an
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	 SiC_p/Al₂O₃ ceramic matrix composites prepared by directed metal oxidation of aluminium alloy". Oral Presentation at the National Symposium for Materials Research Scholars, MR-10, IITM, December 13-15, 2010. M. Devaiah, A. Parusha Ram, T. Srihari, and T. Rajasekharan, "Elastic Properties of SiC_p/Al₂O₃ Ceramic Matrix Composites Prepared by Directed Metal Oxidation of an Aluminium Alloy", Oral Presentation at the National Conference on Recent Advances in Mechanical Engineering, 8-9, March 2012, Mechanical Engineering Department, UCE,
	 SiC_p/Al₂O₃ ceramic matrix composites prepared by directed metal oxidation of aluminium alloy". Oral Presentation at the National Symposium for Materials Research Scholars, MR-10, IITM, December 13-15, 2010. M. Devaiah, A. Parusha Ram, T. Srihari, and T. Rajasekharan, "Elastic Properties of SiC_p/Al₂O₃ Ceramic Matrix Composites Prepared by Directed Metal Oxidation of an Aluminium Alloy", Oral Presentation at the National Conference on Recent Advances in Mechanical Engineering, 8-9, March 2012, Mechanical Engineering Department, UCE, OU Hyderabad, A.P500 007, India
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40	 SiC_p/Al₂O₃ ceramic matrix composites prepared by directed metal oxidation of aluminium alloy". Oral Presentation at the National Symposium for Materials Research Scholars, MR-10, IITM, December 13-15, 2010. M. Devaiah, A. Parusha Ram, T. Srihari, and T. Rajasekharan, "Elastic Properties of SiC_p/Al₂O₃ Ceramic Matrix Composites Prepared by Directed Metal Oxidation of an Aluminium Alloy", Oral Presentation at the National Conference on Recent Advances in Mechanical Engineering, 8-9, March 2012, Mechanical Engineering Department, UCE, OU Hyderabad, A.P500 007, India M. Devaiah, T. Srihari, and T. Rajasekharan, "Identification of Growth Promoter to Fabrication of SiC_p/Al₂O₃ Ceramic Matrix Composites Prepared by Directed Metal Metal
	 SiC_p/Al₂O₃ ceramic matrix composites prepared by directed metal oxidation of aluminium alloy". Oral Presentation at the National Symposium for Materials Research Scholars, MR-10, IITM, December 13-15, 2010. M. Devaiah, A. Parusha Ram, T. Srihari, and T. Rajasekharan, "Elastic Properties of SiC_p/Al₂O₃ Ceramic Matrix Composites Prepared by Directed Metal Oxidation of an Aluminium Alloy", Oral Presentation at the National Conference on Recent Advances in Mechanical Engineering, 8-9, March 2012, Mechanical Engineering Department, UCE, OU Hyderabad, A.P500 007, India M. Devaiah, T. Srihari, and T. Rajasekharan, "Identification of Growth Promoter to Fabrication of SiC_p/Al₂O₃ Ceramic Matrix Composites Prepared by Directed Metal Oxidation of Aluminium Alloy", Oral Presentation at the National Conference on Recent Advances in Mechanical Engineering, 8-9, March 2012, Mechanical Engineering Department, UCE, OU Hyderabad, A.P500 007, India M. Devaiah, T. Srihari, and T. Rajasekharan, "Identification of Growth Promoter to Fabrication of SiC_p/Al₂O₃ Ceramic Matrix Composites Prepared by Directed Metal Oxidation of an Al Alloy", Oral Presentation at the National Conference on Recent
40	 SiC_p/Al₂O₃ ceramic matrix composites prepared by directed metal oxidation of aluminium alloy". Oral Presentation at the National Symposium for Materials Research Scholars, MR-10, IITM, December 13-15, 2010. M. Devaiah, A. Parusha Ram, T. Srihari, and T. Rajasekharan, "Elastic Properties of SiC_p/Al₂O₃ Ceramic Matrix Composites Prepared by Directed Metal Oxidation of an Aluminium Alloy", Oral Presentation at the National Conference on Recent Advances in Mechanical Engineering, 8-9, March 2012, Mechanical Engineering Department, UCE, OU Hyderabad, A.P500 007, India M. Devaiah, T. Srihari, and T. Rajasekharan, "Identification of Growth Promoter to Fabrication of SiC_p/Al₂O₃ Ceramic Matrix Composites Prepared by Directed Metal

Books/Book Chapters Published:

S. No.	Publication details		
1	Dr. M. Devaiah, P, Chucharitha, Md. Jawed, "Design, Aerodynamic Analysis and Fabrication of Agricultural Drone", LAP LAMBERT Academic Publishing, ISBN: 978-620-2-66888-0, May 2021.		
2	Dr.M. Devaiah, a Textbook of "Additive Manufacturing for Medical Implants, SciMedTech Publishers, Delhi, ISBN: 9789387631076, 2 nd February, 2018.		
3	Dr.M. Devaiah , a Textbook of "Additive Manufacturing for Automotive Components, Research India Publications, ISBN: 978-93-87388-02-4, December 2017.		
4	Dr.M. Devaiah , a Textbook of "DIMOX Processed Al ₂ O ₃ /SiC CMCs through Al Alloy: Physical properties, LAP LAMBERT Academic Publishing, ISBN: 978-3-659-85800-0, November 2017.		

Experience:

Teaching	20	
Industry	01	
Research	5	
Total Experience	22	