

Dr. S. Madhava Reddy

Professor of Mechanical Engineering



Education Qualifications: M.E (Industrial Engg.) Ph.D (Mechanical Engg)
Specialization: Industrial Engineering

ADDRESS:

- B – Block -Room No.103

JNTUH ID:

35150331-203743

EMAIL:

smadhavareddy_mct@mgit.ac.in

DATE OF JOINING:

16-09-2002

EXPERIENCE - 28 Years

- Teaching - 25
- Research -12 (Include teaching experience)
- Industry -3
- Others –

SUMMARY:

- Publications - 65
- Conferences - 52
- Books – 1
- Awards- 2

EVENTS:

- Organized - 25
- Attended - 120

LET'S MEET ON SOCIAL:

- <https://www.linkedin.com/in/dr-madhava-reddy-s-00537a27a/>

Membership of Professional Bodies:

1. Life member- Indian Society for Technical Education(ISTM) -LM/35555
2. Fellow- Institution of Engineers (India) -F122383-2
3. International Association of Engineers (IAENG)-289627
4. Indian Society for Advancement of Materials and Processing Engineering (LM-2367)
5. Soft Computing Research Society (SCRS)- 2024-03-07-5233
6. Life member- AI-ML Innovative Entrepreneurs and Engineers (AMIEE)-AMI/25/01180

Responsibilities Held at Institution Level:

1. Transport in charge from 01-07-2016 to 23.03.2023
2. Member in Anti ragging Committee
3. Member in Alumni-Constitution of Committee
4. Chairman- Internal Transport committee from 2016 to till date
5. Faculty Advisor, ISTE Students Chapter-MGIT from 2024 to till date
6. Deputy Director- Internal Quality Assurance Cell- MGIT from 2022 to till date

Responsibilities Held at Department Level:

1. In- charge-Engineering Work shop.
2. Member- NBA ,NAAC and Autonomous Committees of the department

Research Guidance:

1. Ph.D -1 In progress
2. M.Tech (Mechatronics) -7
3. B.Tech (Mechanical and Mechatronics) -42

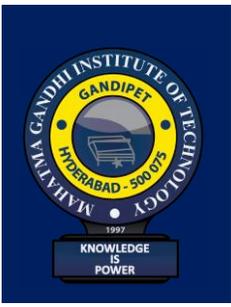
Honors /Awards Receive:

1. As the Faculty Advisor, received ISTE Best Faculty Chapter Award for the year 2024
2. Received Best Faculty Award in recognition of outstanding contribution in research in the year 2023
3. As the Faculty Advisor, received ISTE Appreciation Award Award for the year 2022

Courses Handled at Under Graduate /Post Graduate Level:

- **UG:** Operations Research, Management Science, Engineering Mechanics, Mechanics of Solids, Production Planning and Control, Industrial Management, Engineering Graphics, MEMS Design, Mechanics of Solids, System and Simulation, Mathematical modeling and Simulation.
- **PG:** Micro Electro Mechanical Systems

Publications:



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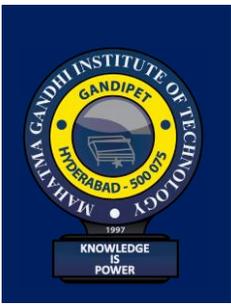
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1. Selvarajan L, Prakash B, Niranjana T, Madhava Reddy S, Singaravel B and Periasamy K, A critical insight into the use of EDM for machining advanced ceramic composites – a review, An International Journal of Machining Science and Technology, Taylor & Francis publisher. Impact factor is 5.7. Published on 13.06.2025. Indexed in Scopus. ISSN: 1091-0344 (Print) 1532-2483 (Online)
2. Abhinav. P, D. Vyshnavi, SK. Priya, V. Ashok, Dr. S. Madhava Reddy, Design and Fabrication of Omni Directional Turbine, International Journal of Research Publication and Review, Vol. 6, Issue.5, Pp 15282-15288 May 2025, ISSN : 2582-7421, IF 6.884- Peer reviewed and Open access journal.
3. Krishna Reddy A, Brundha T, Rohit P, Rahul Kumar, S Madhava Reddy, Design and Fabrication of Portable Oxygen Ventilator, Bulletin for Technology and History Journal, Page No:19-24, **Volume 25, Issue 2, 13th Feb 2025. If: 6.1, ISSN No.0391-6715**, Scopus Active and UGC CARE Group 2 Journal.
4. S. Deepak Reddy, P. Surendar Reddy and S Madhava Reddy, CFD Analysis on Air Conditioning Effect using K-Omega Model, International Journal for Research in Applied Science & Engineering Technology, ISSN: 2321-9653, Volume 13, Issue II, Pp.366-378 , Feb 2025, IF: 7.538, Indexed by Scopus.
5. P. Gokul, S. Madhava Reddy, K. Sudhakar Reddy, D. Manoj Kumar, P. Sirisha, P. Ravali, Design and Fabrication of Automated Accumulator for Waste Management, , International Journal for Research in Applied Science & Engineering Technology Volume 12, Issue VII, July 2024, ISSN: 2321-9653; Pp.35-45
6. Abhishek Indupally, Atharva Patil, S. Madhava Reddy, P.V.Prasad Reddy, Design And Analysis Of 3D Printed Cable Protector Using PLA/ABS, Bulletin For Technology And History Journal, Volume 24, Issue 05, May 2024, Pp. 423-434, ISSN No : 0391-6715, IF.6.1. An UGC CARE Group II Approved Journal and Indexed by Scopus.
7. S. Seenivasan, D.F. Melvin Jose, R.J. Golden Renjith Nimal, S. Madhava Reddy, M. Maniyarasan, S. Balasubramani and R. Girimurugan, Study on the Mechanical Behavior of Aramid Epoxy Composites with Coal Ash Filler, NanoWorld J 10(S1): S250-S258. March 20, 2024.
8. M A Alim Ahmed and S Madhava Reddy, IoT-Based Smart Hydroponic System and Monitoring of Plant's Health through Image Processing, International Journal of All Research Education and Scientific Methods (IJARESM), ISSN: 2455-6211, Volume 12, Issue 1, January-2024, Pp.985-989.
9. Santoshi Navallika D, S Hemanth Kumar, K Sai Sriker Reddy, D Katyayani and S Madhava Reddy, Mechanism for Automation in Welding Processes of Pressure Vessels, Journal of Emerging Technologies and Innovative Research, Peer reviewed, Refereed Journal, Vol.10, Issue 7, July 2023, ISSN: 2349-5162, Pp.439-448
10. Samudrala Krishna Teja, Gandra Rohit, S Madhava Reddy, K Sudhakar Reddy, Development of Optimum Heat Parameters in Manufacturing of C-80 Spring Steel Circlips, Journal of Shanghai Jiaotong University, Vol.17, Issue 12, Pp.1-11, December 2021, ISSN:1007-1172, UGC care approved list, Scopus.
11. J Pavan kumar, Ankamma Rao, K Sudhakar Reddy and Madhava Reddy S “Motion analysis of piston with variation of pressure of hydraulic oil using H-Simulator, ”,Global Journal of Engineering Science and Researches(GJESR), ICAME-2018, December-2018,ISSN 2348-8034, Pp.145-153, UGC approved.
12. Avaze Shaikh, Edu Samuel Pradeep, Vikas Gattupalli, Taufeeq Hussain and S Madhava Reddy, Self-Propelled Rocker Bogie Bot Rover- Marvin, International

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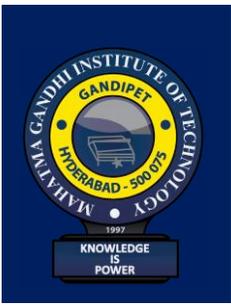
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Journal of Mechanical Engineering and Technology(IJMET), Vol.9, Issue 5, May 2018, Pp.825-833, Article Id: IJMET_09_05_091, ISSN: 0976-6359. Scopus Indexed.

13. Madhava Reddy. S, Bhaskaran.S and Sudhakar Reddy.K, “Value Analysis on Mechanical Integration”, Indian Institute of Industrial Engineering (IIIE) Journal. Volume VI, Issue No.3, March 2013, pp.29-35[ISSN: 0970-2555]
14. Madhava Reddy S and Chennakesava Reddy A.,”Evaluation of process parameters on surface roughness and residual stresses in high speed end milling of Al-Si-Mg-Fe alloys” International Journal of Advances in Machining and Forming Operations (IJAMFO), Volume 3, Number 1, January-June 2011, pp.57-70 [ISSN: 0975-4784]
15. Madhava Reddy S and Chennakesava Reddy A., Evaluation of dry sliding wear characteristics and consequences of cast Al-Si-Mg-Fe alloys, The Icfai University Journal of Mechanical Engineering, ICFAI University Press, Vol.III, No.1, 2010, pp-1-13.[ISSN: 0974-6536]
16. Madhava Reddy S and Chennakesava Reddy A, “Evaluation of process parameters on cutting forces and heat generation in high-speed end milling of Al-Si-Mg-Fe alloys”, Journal of Manufacturing Technology, Vol.8, No.6, June 2009,pp-21-29. [ISSN: 0972-7396]
17. Madhava Reddy S and Bhaskaran.S “Value Analysis on Section to Section Assembly” Journal of The Indian Institute of Industrial Engineering, Mumbai, Vol.xxxv No.5, pp.19-23, May-2006. [ISSN: 0970-2555]

Conferences:

1. P. Sellamuthu, Jithin P. Gibu, V. P. Suresh Kumar, S. Madhava Reddy, G. Sivaraman, A. Ramakrishnan, R. Girimurugan, Experimental investigations and optimization of process parameter through high speed hard turning process on C45 steel, AIP Conference Proceedings and indexed by Scopus, Vol.3306, Issue 1, 07005(5th June 2025)
2. B Rohitha Sree, S Madhava Reddy and P.V.Prasad Reddy, Modelling and Exploring temperature distribution and heat flux analysis of a coated piston, Proceeding of 2nd National conference on Contemporary Issues in Science, Engineering & Technology(NCCISSET)-2K24 held in virtual mode on 31.05.2024 & 01.06.2024, organized by Aditya College of Engineering, Madanapalle, Chittoor Dist., A.P.
3. Seenivasan, D.F. Melvin Jose, R.J. Golden Renjith Nimal, S. Madhava Reddy, M. Maniyarasan, S. Balasubramani and R. Girimurugan, Study on the Mechanical Behaviour of Aramid Epoxy Composites with Coal Ash Filler” in the 2023 Third Global Conference on Recent Advances in Sustainable Materials (GC-RASM 2023) held in virtual mode on at during 27 - 28, July 2023. The conference has been organized by the department of Mechanical Engineering, PGP College of Engineering & Technology, Tamil Nadu, India.
4. Sellamuthu, Mythilyvenkat, VP Suresh, S Madhava Reddy, Sivaraman, Ramakrishna, Experimental Investigations and Optimization of Process Parameter through High Speed Hard Turning Process on C45 Steel’, in the International conference on Advances in Materials and Manufacturing Technology (AMMT-2023), held in virtual mode on November 3 - 4, 2023, organized by Department of Mechanical Engineering, CUIET-Applied Engineering, Chitkara University, Punjab
5. D Saranya, G Manasa, O spnadana and P Anusha, Design of Solar Tracking Seed Sowing Machine, Proceedings of International e-Conference on Futuristic Trends in Mechanical, Materials & Manufacturing(ICMMM’20), on 16th June 2020, St.Peters Institute of Higher Education & Research, Chennai, Tamil Nadu.
6. P.V Prasad Reddy, S Madhava Reddy and D L Tejaswini, Modelling of a warfield Autonomous Robot with GPS and Digital Compass, Proceedings of 3rd International Conference on Innovations in Mechanical Engineering (ICIME-2020), 10-11 January 2020, Guru Nanak Institute of Technology(Autonomous), Ibrahimpatnam, Telangana.pp.1-5, ISBN-978-981-15-7557-0_46.
7. J Pavan kumar, Ankamma Rao, K Sudhkar Reddy and Madhava Reddy

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S “Motion analysis of piston with variation of pressure of hydraulic oil using H-Simulator, Proceedings of 1st International conference on Advances in Mechanical Engineering (ICAME-2018), 21-22 December 2018, CMR College of Engineering Technology(Autonomous), Hyderabad.Pp.135-142, ISBN: 978-81-923800-1-8.

8. S Madhava Reddy, J Pavan Kumar and K Sudhkar Reddy, An overview of Micro Electro Mechanical Systems and Challenges of MEMS. Proceedings of the 1st International Conference on Recent Trends in Engineering & Technology, ICRTE’ 17, 28-29 July 2017, SAMSKRUTI College of Engineering, Hyderabad.
9. K.Sudhakar Reddy, S.Madhava Reddy and G.Tejaswini, Design and Development of prototype fusion deposition modeling machine for 3D printing, Proceedings (Book of abstract) of the International NAFEMS conference on Engineering, modeling analysis, simulation and 3D printing. August 29-31, 2016. NAFEMS 3D, Bangalore, India.
10. Madhava Reddy. S Sudhakar Reddy. K, and Ankamma. K, “Energy recovery from waste and implications for greenhouse gases and global warming ” Proceedings of the International Conference on Operational Research society of India (ORIS-2010-ORURD), 15-17 December 2010. Thiagarajar College of Engineering (TCE), Madurai, Tamil Nadu. Pp. 109-116.

No. of Books/Chapter Published with details:

- Published text book of Mechanics of Solids, HI-Tech publishers, 2nd revised edition, 2012.

Events Organized:**Conferences:**

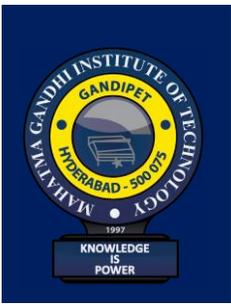
1. Convener- A National Level Technical Symposium for Engineering Students MAGISTECH’24 under aegis of ISTE Students’ Chapter –MGIT, held during 13-14 September 2024.
2. Coordinator- In-house Skill Development program on ‘Basic Trades of Engineering Workshop’ to the non-teaching staff held during 08-10 February, 2024 in the Central work shop, Department of Mechanical Engineering, MGIT.
3. Member- One Day National Level Technical Symposium on TECHNOVATION’20 & IGNITO’20 on 12 March 2020.
4. Member in Technical committee- All India Seminar on Recent trends in Automation and Digital Manufacturing, IEI. (Technical Committee member), during 23-24Sep’ 2019, The Institution of Engineers(India), Hyderabad.
5. Coordinator-National level Technical symposium on TECHNOVATION’19 & IGNITO 19 (Acted as Member in Organizing committee), on 14th April 2019
6. Member-Organized 08 Days Internship on Gasoline/Electric Formula Race during 10-17 December, 2019.

DPs/STTPs:

1. Organized One week online Faculty Development Program on “Advanced Optimization Techniques for Research problem solving” during 04-08 August 2020, Dept. of Mechanical Engineering, MGIT, Hyderabad.

Events Attended:**DPs/STTPs:**

1. Participated in AICTE Sponsored STTP on Design Thinking & Rapid Prototyping: An Entrepreneurship & Start-up Approach, organized by Dept. of Mechanical Engineering, National Institute of Technology, Arunachal Pradesh held from 22-26 March 2022.



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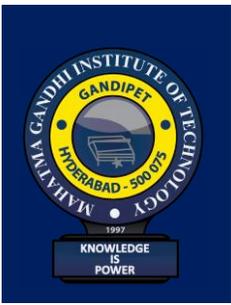
2. Participated in one week online AICTE-ISTE Refresher Course on Nanotechnology Applications in Mechanical Engineering 2021, organized by Dept. of Mechanical Engineering, Muffakham Jha College of Engineering & Technology, Hyderabad from 10-16 December 2021.
3. Participated in one Week ATAL Academy, AICTE Sponsored FDP on Design Thinking and Product development, organized by Dept. of Mechanical Engineering, National Institute of Technology, Arunachal Pradesh held from 23-27 August 2021.
4. Participated in one Week ATAL Academy, AICTE Sponsored FDP on “MEMS Technology & Microsensors” held from 26- 30 July 2021, organized by Dept. of ECE, National Institute of Technology (NIT) Shillong, Meghalaya.
5. Participated in one week ATAL Academy, AICTE Sponsored FDP on “Academic Leadership in Higher Education” held from 17.05.2020 to 21.05.2021, organized by the Dept. of Management, Central University of Rajasthan, Rajasthan, India.

Refresher Courses/ Workshops/ Webinars/ Seminars/Guest Lecture:

1. Participated in the live webinar on Green Composites, organized by Dept. of Industrial Engineering, Institute of Mechanical Engineering, Saveetha School of Engineering, SIMATS, Thandalam, Chennai. On 05.02.2022
2. Participated in the webinar on Polygeneration, organized by Dept.of Mechanical Engineering, CBIT, Hyderabad on 13.11.2021. Resource person: Dr.Tangepalli Srinivas, Dr.B R Ambedkar NIT, Jalandhar, Punjab, India.
3. Participated in the webinar on Additive Manufacturing in Industry 4.0, organized by Dept. of Mechanical & Automobile Engineering, ARASU Engineering College, Chennai, Tamil Nadu on 13.10.2021.
4. Participated in six days virtual workshop on Emerging Trends in Automotive Sector, organized by Dept. of Automobile Engineering, Sathyabama Institute of Technology, Chennai during 30th August- 4th September 2021.
5. Participated in live training and demonstrated Six Sigma White Belt, Credential id: CSSWB/JULY 2021/VE-214, organized by Vision Excellence Consulting Private Limited on 21.07.2021

Online Certifications:

1. UDEMY- online course completed on Outcome Based Education * Academic Quality Assurance through Udemy platform. Certificate no. Udemy_certificate No.UC-8a7a6647-16ac-415d-aa4b-50d6bd4512a8_ OBE and AQA dt. 31.05.2025
2. NPTEL online course on **Inspection and Quality Control in Manufacturing** through SWAYAM- Jan-Feb 2025 (4 Weeks course) conducted by IIT Roorkee.
3. SWAYAM online course on **Introduction to Cyber Security** conducted by IGNOU, New Delhi, issued on 26.01.2025, Uttarakhand Open University, Haldwani.
4. NPTEL online certification course of Introduction to Machine Learning is successfully completed during JAN-APR 2024 (12 weeks). Conducted by Ministry of HRD, Govt. of India, Indian Institute of Kharagpur.
5. NPTEL online certification course of Cyber Security is successfully completed during July-Oct 2023 (12 weeks). Conducted by Ministry of HRD, Govt. of India, Indian Institute of Kharagpur.
6. NPTEL Online certification course of Sensors and Actuators is successfully completed with Elite during Jan-April 2021(12 Weeks). Conducted by Ministry of HRD, Govt. of India, Indian Institute of Science, Bangalore.
7. Online certification course of Introduction to Artificial Intelligence (AI) Certificate dated: 11.07.2020. Successfully completed.
8. NPTEL Online certification course of Introduction to Industry 4.0 and Industrial Internet of Things is successfully completed during Sep-Dec 2020(12

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Weeks). Conducted by Ministry of HRD, Govt. of India, Indian Institute of Technology, Kharagpur.

9. NPTEL- Online Certification course on Advanced Machining Processes is successfully completed with Elite certificate, Aug-Oct 2021(8 week course).
10. NPTEL Online certification course of A Brief Introduction of Micro-Sensors is successfully completed during Jan-Feb' 2020(4 week Course). conducted by IISER-Indian Institute of Science Education and Research Bhopal and IIT Madras, Ministry of HRD, Govt. of India.
11. NPTEL Online certification course of Operations Management is successfully completed during Jan- Apr 2020(12 week course), conducted by Indian Institute of Technology Roorkee, Ministry of HRD, Govt. of India.
12. NPTEL Online certification course of Operations Research is successfully completed with Elite certificate during July- September 2019. Conducted by Ministry of HRD, Govt. of India, Indian Institute of Technology Roorkee.

My Other Contribution:

1. Delivered a invited talk on MEMS and its Applications & Mechanical Sensors and Actuators on 30.06.2021 at K.G Reddy College of Engineering & Technology, Hyderabad.
2. Serving as Reviewer of Technical Papers in the 4th International Conference On Advancements in Aeromechanical Materials For Manufacturing (ICAAMM-2021)", organized by Department of Aeronautical & Mechanical engineering, held on 27th & 28th August 2021 at MLR Institute of Technology, Hyderabad.
3. Appointed as Foreign Examiner Nominee for conducting Ph.D Viva voce defence at Sathyabama Institute of Science and Technology (Deemed to be University), Chennai, Tamil Nadu on 21.06.2019.
4. Member, Attended BOS meeting on 21-22 August 2015 for revision of PG course (R15 PG Academic regulations, course structure and syllabi)- Mechanical Engineering (Production Engineering) at UGC Building, JNTUH, Kukatpally, Hyderabad.
5. Delivered a Guest lecture on "MEMS/NEMS and its applications " for the students of IV B.Tech I Sem, Mechanical Engineering (Nanotechnology) on 26-27 September 2015 at JNTUH College of Engineering Sulthanpur, Medak District, Telangana State.
6. Member as outside expert advisory Committee of SAP Project sanctioned by UGC, New Delhi to attend the meeting is to get approval for the purchase of recurring and non-recurring budget for SAP Project on 16.11.2013 AM at VC Chamber, JNTUH, Hyderabad.
7. Delivered a guest Lecture on "SF and BM Diagrams, Clutches, brakes and Dynamometers" at Sree visvesvaraya Institute of Technology & Science (SVITS), Mahaboob Nagar, A.P for B.Tech, Mechanical Engg. Students on 22.08.2012.

Online FDPs attended: 60;

Invited talk delivered/ session chair/subject expert member: 30

On line webinars attended: 60