

Dr. S. Madhava Reddy

Professor



Education Qualifications: Doctor of Philosophy (Mechanical Engineering)
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 - 25 Years

- Teaching - 22
- Research -10
- Industry -3
- Others –

SUMMARY:

- Publications - 52
- Conferences - 43
- Books – 1

EVENTS:

- Organized - 22
- Attended - 98

LET'S MEET ON SOCIAL:

- <https://www.linkedin.com/company/mgithyderabad>

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

Responsibilities Held at Institution Level:

1. Transport in charge from 01-07-2016 to till date.
2. Member in Anti ragging Committee
3. Member in Alumni-Constitution of Committee
4. Chairman- Transport committee

Responsibilities Held at Department Level:

1. In- charge-Engineering Work shop.
2. NBA and NAAC works
3. Member in Board of Studies

Research Guidance:

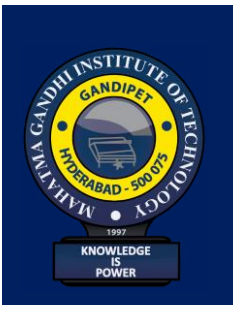
1. One student was registered and pursuing at JNTUH, Hyderabad.
2. Guided 7 M.Tech projects- Mechatronics
3. Guided 36 B.Tech project works.

Courses Handled at Under Graduate /Post Graduate Level:

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

Publications:

1. 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.
2. 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.
3. Avaze Shaikh, Edu Samuel Pradeep, Vikas Gattupalli, Taufeeq Hussain and S Madhava Reddy, Self-Propelled Rocker Bogie Bot Rover- Marvin, International 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.
4. 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]
5. Madhava Reddy S and Chennakesava Reddy A., "Evaluation of process

**ADDRESS:**

- B – Block -Room No.103

JNTUH ID:

35150331-203743

EMAIL:

smadhavareddy_mct@mgit.ac.in

DATE OF JOINING:

16-09-2002

EXPERIENCE - 25 Years

- Teaching - 22
- Research -10
- Industry -3
- Others –

SUMMARY:

- Publications - 52
- Conferences - 43
- Books – 1

EVENTS:

- Organized - 22
- Attended - 98

LET'S MEET ON SOCIAL:

- <https://www.linkedin.com/company/mgithyderabad>

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]

6. 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]
7. 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]
8. 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:

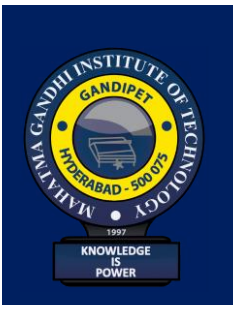
1. D Saranya, G Manasa, O sfnadana and P Anusha, Design of Solar Tracking Seed Sowing Machine, Proceedings of International e-Conference on Futuristic Trends in Mechanical, Materials & Manufacturing(ICMMM’20), on 16th June 2020, St.Peters Institute of Higher Education & Research, Chennai, Tamil Nadu.
2. 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.
3. J Pavan kumar, Ankamma Rao, K Sudhkar Reddy and Madhava Reddy 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.
4. 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.
5. 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.
6. 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. Member- One Day National Level Technical Symposium on TECHNOVATION’20 & IGNITO’20 on 12 March 2020.



2. Member in Technical committee- All India Seminar on Recent trends in Automation and Digital Manufacturing, IEL. (Technical Committee member), during 23-24Sep' 2019, The Institution of Engineers(India), Hyderabad.
3. Coordinator-National level Technical symposium on TECHNOVATION'19 & IGNITO 19 (Acted as Member in Organizing committee), on 14th April 2019
4. Member-Organized 08 Days Internship on Gasoline/Electric Formula Race during 10-17 December, 2019.

ADDRESS:

- B – Block -Room No.103

JNTUH ID:

35150331-203743

EMAIL:

smadhavareddy_mct@mgit.ac.in

DATE OF JOINING:

16-09-2002

EXPERIENCE - 25 Years

- Teaching - 22
- Research -10
- Industry -3
- Others –

SUMMARY:

- Publications - 52
- Conferences - 43
- Books – 1

EVENTS:

- Organized - 22
- Attended - 98

LET'S MEET ON SOCIAL:

- <https://www.linkedin.com/company/mgithyderabad>

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:**

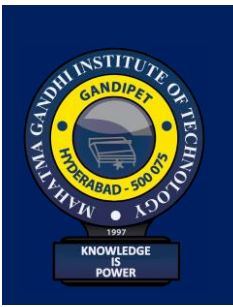
1. Participated in AICTE Sponsored STTP on Design Thinking & Rapid Prototyping: An Entrepreneurship & Start-up Approach, organized by Dept. of Mechanical Engineering, National Institute of Technology, Arunachal Pradesh held from 22-26 March 2022.
2. Participated in one week online AICTE-ISTE Refresher 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. NPTEL Online certification course of Sensors and Actuators is successfully completed with Elite during Jan-April 2021(12 Weeks). Conducted by Ministry

**ADDRESS:**

- B – Block -Room No.103

JNTUH ID:

35150331-203743

EMAIL:

smadhavareddy_mct@mgit.ac.in

DATE OF JOINING:

16-09-2002

EXPERIENCE - 25 Years

- Teaching - 22
- Research -10
- Industry -3
- Others –

SUMMARY:

- Publications - 52
- Conferences - 43
- Books – 1

EVENTS:

- Organized - 22
- Attended - 98

LET'S MEET ON SOCIAL:

- <https://www.linkedin.com/company/mgithyderabad>

of HRD, Govt. of India, Indian Institute of Science, Bangalore.

2. Online certification course of Introduction to Artificial Intelligence (AI) Certificate dated: 11.07.2020. Successfully completed.
3. NPTEL Online certification course of Introduction to Industry 4.0 and Industrial Internet of Things is successfully completed during Sep-Dec 2020(12 Weeks). Conducted by Ministry of HRD, Govt. of India, Indian Institute of Technology, Kharagpur.
4. NPTEL- Online Certification course on Advanced Machining Processes is successfully completed with Elite certificate, Aug-Oct 2021(8 week course).
5. 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.
6. 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.
7. 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.

Any 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: 40;

Invited talk delivered/ session chair/subject expert member: 25

On line webinars attended: 55