

Dr. S. Madhava Reddy

Professor & Faculty Advisor, ISTE Student's Chapter



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
4. Soft Computing and Research Society (SCRS)-2024-03-07-5233

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
5. Faculty Advisor- ISTE Student's Chapter
6. Additional Coordinator- IQAC
7. Member- Project Review Committee (UG and PG)

Responsibilities Held at Department Level:

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

Research Guidance:

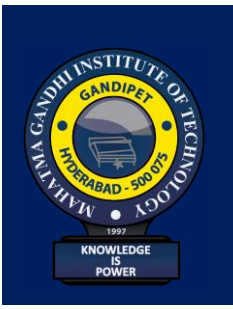
1. One student was registered and pursuing at JNTUH, Hyderabad.
2. Guided 7 M.Tech projects- Mechatronics
3. Guided 40 B.Tech project works.

Courses Handled at Under Graduate /Post Graduate Level:

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

Publications:

1. 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, An UGC CARE Group II Approved Journal and Indexed by Scopus. DOI: 10.37326/bthnlv22.8/1717.
2. A. Harshavardhan, J. Vijay, Mariya Rose Joseph, P. Vinay Reddy, P. V Prasad Reddy, Dr. S. Madhava Reddy, DESIGN AND MODELLING OF FIRST RESPONDER HEXAPOD, Organization Development Journal, An UGC Care Approved Group 2 Journal & An ISO: 7021-2008 Certified Journal, ISSN No.0889-6402, Volume 12, Issue 2, February 2024, Pp.94-101.



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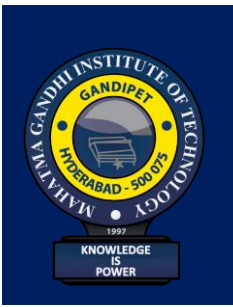
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DOI: 20.18001.OD.2024.V12I2.24.21644

3. M.A Alim Ahmad 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, ISSN: 2455-6211, Volume 12, Issue 1, January-2024, Pp.985-989, UGC Journal No.7647.
DOI: <https://doi.org/10.56025/IJARESM.2023.120124989>.
4. 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. UGC-Approved Journal No.63975. DOI:10.6084/m9.jetir.JETIR2307662.
5. M.A Alim Ahmed and S Madhava Reddy, Smart Hydroponic System and Monitoring of Plant's Health through Machine Learning, International Journal for Research in Applied Science & Engineering Technology (IJRASET), ISSN: 2321-9653; Volume 11 Issue VI Jun 2023, Pp:4261-4263, UGC care approved journal (No.45842) , Peer reviewed and open access journal. DOI: doi.org/10.22214/ijraset.2023.54443. Indexed
6. T Prasad, S Madhava Reddy and Pavan Ballappa Bagali, Experimental Behaviour of Al 7075 with Magnesium Oxide Nano Powder Metal Matrix Composite, GRADIVA Review Journal , Vol.9, Issue 6, June 2023, Pp.338-344 ISSN:0363-8057, Peer reviewed and Open Access journal, Scopus indexed, UGC-CARE approved Group -II Journal. DOI: 10.37897.GRJ.2022.V9I6.23.513094
7. S Madhava Reddy and K Ankamma Rao and K Sudhakar Reddy, Design of Automatic Solar Panel Using Power Performance Optimizer, Journal of Xidian University, Vol.17, Issue 5, May 2023, Pp.411-419, An UGC-CARE Approved Group 2 Journal, Scopus indexed, ISSN: 1001-2400. Certificate Id> JXU-R8500. DOI: <https://doi.org/10.37896/jxu17.5/041>
8. P.V Prasad Reddy, and S Madhava Reddy, Speaking Microcontroller for deaf & dumb, GIS Science Journal, Vol.10, Issue 2, Pp.264-271, Feb' 2023, ISSN: 1869-9391, Scopus active and UGC care Group-2 journal. DOI:20.18001.GSJ.2022.V10I2.23.40714
9. Gandi Kumuda, D.Santoshi Navallika, D Rama Devi, Nithya Jindam, S Madhava Reddy, Safety Door Locking System of Cars with Effective Use of Sensors, International Journal for Research in Applied Science & Engineering Technology (IJRASET) ISSN: 2321-9653; ISRA Journal Impact Factor 7.894 | Volume 10 Issue XII Dec 2022, Pp.85-90, DOI: <https://doi.org/10.22214/ijraset.2022.47816>
10. Ashish Bandla and S Madhava Reddy, Calculating the value of using weight by interfacing with arduino, International Journal of Advanced Research in Science, Engineering and Technology, Vol.9, Issue 6, June 2022. Open access, International, Peer-reviewed journal, ISSN: 2350-0328
11. S Madhava Reddy and P.V Prasad Reddy, Effect of Machining Parameters on Silicon Nitride Ceramics with Thermal Softening of Specimen, Strad Research, Vol.9, Issue 6, Pp. June 2022, An UGC Care approved Group -2 journal and Web of Science, open access & Peer reviewed, An ISO:7021-2008 certified Journal, ISSN: 0039-2049
12. Muzzammil Ahmed Khan and S Madhava Reddy, Welding and Machining in

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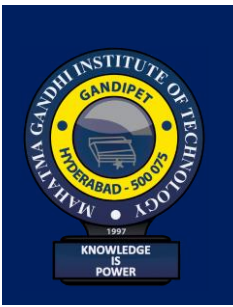
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Additive Manufacturing, The International journal of analytical and experimental modal analysis, Volume XIV, Issue III, March/2022, Pp.1549-1555, ISSN NO: 0886-9367, UGC-CARE Group 'II' Journals list -Serial No. 36272, Open Access Journal and A Peer Reviewed/Referred Journal.

13. P.V Prasad Reddy and S Madhava Reddy, Power Generation using Vertical Axis WindTurbine, GIS SCIENCE JOURNAL, VOLUME 9, Issue. 3, Pp. 1114-1121 March 2022 ISSN NO : 1869-9391, DOI:20.18001.GSJ.2022.V9I3.22.38883,UGC CARE approved group II Journal
14. 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.
15. 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, ”,Global Journal of Engineering Science and Researches(GJESR), ICAME-2018, December-2018,ISSN 2348-8034, Pp.145-153, UGC approved.
16. 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.
17. 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]
18. 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]
19. 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]
20. 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]
21. 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. Paper titled” 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, Chittor Dist., Andhra Pradesh.
2. Paper titled: Design and Analysis of Progressive Die for wall mounting Bracket, Proceedings of 6th International Conference on Advancements in Materials and Manufacturing (ICAAMM 2024) held in virtual mode during 16-17 February 2024. The conference has been organized by the Department of Aeronautical and Mechanical Engineering, MLR Institute of Technology, Hyderabad.
3. Paper titled: ‘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

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Technology (AMMT-2023), held in virtual mode on November 3 - 4, 2023, organized by Department of Mechanical Engineering, CUIET-Applied Engineering, Chitkara University, Punjab. Reference No.: CUPB/AMMT23/032-4

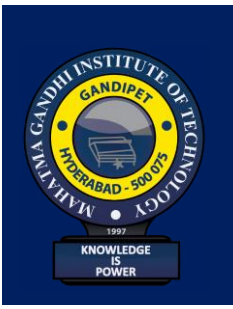
4. Paper titled "Study on the Mechanical Behaviour of Aramid Epoxy Composites with Coal Ash Filler" in the 2023 Third Global Conference on Recent Advances in Sustainable Materials (GC-RASM 2023) held in virtual mode on at during 27 - 28, July 2023. The conference has been organized by the department of Mechanical Engineering, PGP College of Engineering & Technology, Tamil Nadu, India.
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 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, ICRTET' 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. ISBN: 81-298-0061-6

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, IEI. (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 14thApril 2019
4. Member-Organized 08 Days Internship on Gasoline/Electric Formula Race during 10-17 December, 2019.



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FDPs/STTPs:

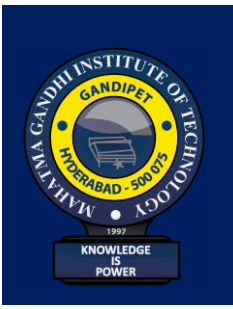
1. Organized National level Technical symposium on **TECHNOVATION 24** as coordinator in PPT presentation, Organized by Department of Mechanical Engineering, MGIT on 21st March 2024.
2. Organized In-house Skill Development program on 'Basic Trades of Engineering Workshop' to the non-teaching staff held during 08-10 February, 2024 in the Central work shop, Department of Mechanical Engineering, MGIT.
3. 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.

4.

Events Attended:

FDPs/STTPs:

1. Participated in online one week FDP on Applications of AI/ML using Pattern Recognition & Intellectual property Rights, organized by Dept. of ECE and Mechanical Engineering, Chaitanya Bharathi Institute of Technology, Gandipet, Hyderabad held during 29th January-02 February 2024.
2. Participated in online one week FDP program on STC on Effective Curriculum Implementation using FOSS (Free and Open Source Softwares) on 08-12 January 2024, Coordinator: Prof. (Dr.) Rajesh Mehra Organized by NITTTR Chandigarh in association with Mahatma Gandhi Institute of Technology, Gandipet, Hyderabad.
3. Participated in online One week FDP program on Machine Learning Applications for Mechanical Engineers, organized by Department of Mechanical Engineering, CVR College of Engineering, Hyderabad during 18-23 December 2023
4. NPTEL-AICTE Faculty Development Program on **Cloud Computing**, Funded by the MoE, Govt. of India, IIT Madras, during Jul-Oct 2023(12 weeks course)-Roll No NPTEL23CS89S5537406650
5. Participated in online 5days FDP on Advanced Manufacturing & Material Processing, organized by Anantha Gyan Knowledge and Skills Private Limited, from 25-29 September 2023. Resource person: Prof. (Dr) Prosenjit Das, Dept. of Materials Engineering, IISc, Bangalore, Karnataka state.
6. Participated in online one week FDP Program on Recent Trends in Green Energy Initiatives and Soft Computing Techniques, Organized by Dept. of Electrical and Electronics Engineering, MGIT Hyderabad during 11-15 July 2023.
7. Participated in Online one week FDP Program On Role of 3D Printing in Digital Manufacturing, organized by Centre for Research in Digital manufacturing(CRDM), Dept. of Mechanical Engineering, School of Engineering, Anurag University in collaboration with centre for product design development and Additive Manufacturing, Osmania University, Hydering during 03-03-July 2023.

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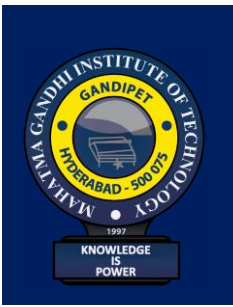
8. Participated in AICTE Sponsored STTP on Design Thinking & Rapid Prototyping: An Entrepreneurship & Start-up Approach, organized by Dept. of Mechanical Engineering, National Institute of Technology, Arunachal Pradesh held from 22-26 March 2022.
9. Participated in one week online AICTE-ISTE Refresher 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.
10. 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.
11. 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.
12. 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. External PAQIC member for conducting the meeting on 08.04.2024 through online mode, Department of Mechanical Engineering, CBIT, Hyderabad.
2. Session chaired –Technical session- Seminar on “Engineering a Resilient Future: Building Stronger, Smarter, Safer” in connection with 56th Engineer’s Day Organized by The Institution of Engineers(India), Telangana State Centre and Government of Telangana, Khairatabad, Hyderabad on 15th September 2023.
3. 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
4. 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.
5. 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.
6. 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.
7. 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 course on **MECHATRONICS** through SWAYAM- FEB-MAY 2023 (8 Weeks) successfully completed in the month of May 2023. Certificate no. NPTEL23ME50S33752531
2. Udeemy online course successfully completed the course on [Machine Learning applied to manufacturing processing](#) on 02/04/2023 as taught by [Leo Bravo](#) on Udeemy. The certificate indicates the entire course was completed as validated by the student. The course duration represents the total video hours of the course at time of most recent completion.
3. Completed successfully a course on **Nanotechnology: A Maker’s Course** through Coursera.com in the month of August 2022.
4. NPTEL online course on **Introduction to IoT** successfully completed through SWAYAM --- July –Oct 22 (12 weeks Course)- Roll No.

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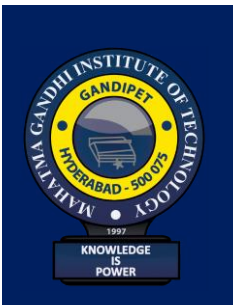
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5. NPTEL Online certification course of Sensors and Actuators is successfully completed with Elite during Jan-April 2021(12 Weeks). Conducted by Ministry of HRD, Govt. of India, Indian Institute of Science, Bangalore.
6. Online certification course of Introduction to Artificial Intelligence (AI) Certificate dated: 11.07.2020. Successfully completed.
7. 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.
8. NPTEL- Online Certification course on Advanced Machining Processes is successfully completed with Elite certificate, Aug-Oct 2021(8 week course).
9. 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.
10. 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.
11. 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. Best Faculty award received in recognition of outstanding contribution in Research from International Award Ceremony on Academic achievers in Higher Educational Institutions, Knowledge Research Academy, Coimbatore, Tamil Nadu on 10.12.2023.
2. Attended in External BOS meeting as BOS member(PAQIC) through virtual mode organized by Department of Mechanical Engineering, Chaitanya Bharathi Institute of Technology, Gandipet, Hyderabad on 01.04.2023
3. Session chaired –Technical session- Mechanica-2023 in the National Level Technical Fest, Organized by Dept. of Mechanical Engineering, on 31 January 2023, Afternoon session held at Chaitanya Bharathi Institute of Technology (CBIT), Gandipet, Hyderabad.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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.
10. 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: 50;

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

On line webinars attended: 65

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