



Dr. Mangalampalli Pratyusha

Assistant Professor



Education Qualifications: M. Tech. (AMS); Ph.D. (ME)
Specialization: Advanced Manufacturing Systems

ADDRESS:

- B- Block - 104

JNTUH ID:

44150407-103315

EMAIL:

mprathyusha_mct@mgit.ac.in

DATE OF JOINING:

26-08-2006

EXPERIENCE - 18.8 Years

- Teaching - 18.8 Years

SUMMARY:

- Publications – 8
- Conferences – 9

EVENTS:

- Organized – 14
- Attended - 110

Membership of Professional Bodies:

1. Indian Society for Technical Education- LM 90854
2. The Indian Institute of Welding- HYD/M/R-11352/L
3. International Association of Engineers- 138910

Responsibilities Held at Institution Level:

1. Member in Anti-Ragging Committee.
2. Member in Campus Monitoring Duties.
3. Member in R&D committee of MGIT from 23-02-2023 to 10-12-2024.
4. Member in IIPC Cell, MGIT from 11-09-2023 to till date.

Responsibilities Held at Department Level:

1. Lab in-charge of Production Technology Lab/Manufacturing Process Lab.
2. Time table in-charge from 2020 to 2022.
3. Maintaining and updating NBA and NAAC files.
4. Class in-charge.
5. Conducted project seminars for final year students.
6. Mentoring and counseling the students.
7. Prepared Lab manuals for Production Technology Lab/Manufacturing Process Lab.
8. Organized Guest Lectures for Mechanical and Mechatronics students and faculty.

Honors/Awards Received:

1. Best Paper Award for the paper entitled A Comparative Analysis of Single and Multi-objective Process Parameter Optimization of Dissimilar Metal Friction Welds.
2. Award of Appreciation for the paper entitled Dissimilar Metal Friction Welds of Pure Aluminium and Pure Copper- Influence of Joint Design

Courses Handled at Under Graduate /Post Graduate Level:

- **UG:** Production Technology, Manufacturing Processes, Automation in Manufacturing, Metrology and Surface Engineering, Metrology and Machine Tools, Operations Research, Engineering Graphics, Flexible Manufacturing Systems, Fundamentals of 3D printing Technology, Unconventional Machining Processes
- **PG:** Intelligent Manufacturing Systems, Automation in Manufacturing



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Publications:

1. **Pratyusha M**, Venkata Ramana P, Prasanthi G, “A Comparative Analysis of Single and Multi-objective Process Parameter Optimization of Dissimilar Metal Friction Welds “, Journal of Physics: Conference Series 2837 (2024) 012076 (Scopus).
2. **Pratyusha M**, Venkata Ramana P, Prasanthi G, “Deformation Rate and Weld Time Influence on Optimized Dissimilar Metal Friction Welds of Pure Aluminium and Pure Copper”, Specialusis Ugdymas / Special Education 2022 1 (43) (Scopus).
3. P. VenkataRamana, **M. Pratyusha**, K. Ramanjaneyulu, P.Narsimha, “Effect of Forge Force on Mechanical Properties of Dissimilar Metal Friction Welds of Stainless Steel and Low Carbon Steel”, International Journal of Mechanical Engineering and Technology (IJMET), Volume 13, Issue 6, June 2022, pp.42-48.
4. **M.Pratyusha**, K. Ramanjaneyulu, “ Process Parameters Optimization of Electrical Discharge Machining of Titanium Alloy”, International Journal of Management, Technology and Engineering, Volume XI, Issue V, MAY/2021, 116-122.
5. K. Ramanjaneyulu, **M. Pratyusha**, “Effect of Moisture on Damping of Fibrous Composites”, International Journal of Engineering Research & Technology (IJERT), Vol. 10 Issue 05, May-2021, 160-163.
6. **M.Pratyusha**, P.Venkata Ramana, V.V.N.Satya Suresh and K. Ramanjaneyulu, “Electrical Discharge Machining of Titanium Alloy - Process Parameter Optimization by Grey Relational Analysis”, International Journal of Management, Technology And Engineering, Volume XI, Issue VI, JUNE/2021, 134-142.
7. **M. Pratyusha**, P. Venkata Ramana, G. Prasanthi, “Evaluation of tensile strength of dissimilar metal pure aluminium and pure copper friction welds”, Materials Today: Proceedings, 38 (2021):2271-2274 (Scopus).
8. **M. Pratyusha**, P. Venkata Ramana and G. Prasanthi, " Effect of End Profile On Dissimilar Metal Friction Welds Of Pure Aluminium And Pure Copper”, International Journal of Mechanical And Production Engineering Research And Development (IJMPERD), Vol. 10, Issue 3 ,2020, 921-932 (Scopus).

Conferences:

1. **M. Pratyusha**, P. Venkata Ramana, G. Prasanthi, “A Comparative Analysis of Single and Multi-objective Process Parameter Optimization of Dissimilar Metal Friction Welds”, 6th International Conference on Advancements in Materials and Manufacturing (ICAMM-2024) during 16th – 17th February, 2024 organized by Department of Aeronautical Engineering at MLR Institute of Technology, Hyderabad, INDIA.
2. **Pratyusha M**, Sravyasri Pille, Shanmugam R M, Akhila Sri Mandava, “Design

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and Simulation of Submarine Hull and Onboard Air Independent Propulsion System”, International Conference on Material Science and Manufacturing Engineering (ICMSME-2021) organized by Department of Mechanical Engineering at Sri Shakthi Institute Of Engineering And Technology, Coimbatore, TamilNadu during 10th – 11th December 2021.

3. **M. Pratyusha**, P. Venkata Ramana, G. Prasanthi, “Optimization of Process Parameters of Dissimilar Metal Friction Welds of Pure Al and Pure Cu using Grey Relational Analysis”, International Conference on Material Science and Manufacturing Engineering (ICMSME-2021) organized by Department of Mechanical Engineering at Sri Shakthi Institute Of Engineering And Technology, Coimbatore, TamilNadu during 10th – 11th December 2021.
4. **M. Pratyusha**, P. Venkata Ramana, G. Prasanthi, “Evaluation of tensile strength of dissimilar metal pure aluminium and pure copper friction welds”, “International Conference & Exposition on Mechanical, Material and Manufacturing Technology (ICE3MT2020 organized by CVR College of Engineering, Hyderabad, during 9th – 10th October 2020.
5. **M. Pratyusha**, P. Venkata Ramana , G. Prasanthi , “Dissimilar Metal Friction Welds of Pure Aluminium And Pure Copper- Influence of Joint Design” at International Congress 2020- Young Professionals International Conference organized by Indian Institute of Welding supported by NSIC, ASM, ISNT at Vashi, Mumbai during 6th -8th February 2020.
6. **Pratyusha M**, Venkata Ramana P , Prasanthi G and Chandra Sekhar B, “Dissimilar Metal Friction Welds of Pure Aluminium and Pure Copper - Process Parameters Optimization” at 3 day International Conference on Advanced Materials and Process for Defence Applications organised by DMRL, Hyderabad,ASM India National Council, IIM , Hyderabad chapter during 23-25 sep 2019 at Courtyard by Marriott, Hyd.
7. **M. Pratyusha**, P. Venkata Ramana , G. Prasanthi, “An overview of joining Al and its alloys by Fusion and solid-state welding processes” in two day National Conference on Advances in Mechanical Engineering from October 06 - 07, 2016 at Vasavi College of Engineering, Hyderabad.
8. **M. Pratyusha**, P. Venkata Ramana, “An overview of similar and dissimilar metal friction stir Al and Cu welds” in two day National Conference on Advances in Mechanical Engineering(NCAME), 19 - 20 September 2014, Nalla Malla Reddy Engineering College, Hyderabad.
9. **M.Pratyusha**, M.Srinivasa Rao and P.Venkata Ramana, “Implementation of Taguchi Method on EDM of Titanium Alloy” in two day National Conference on Advances in Mechanical Engineering from October 11 -12, 2012 at Vasavi College of Engineering, Hyderabad

Events Organized:**Conferences:**

- Faculty Co-Convener – National Level Students Technical Symposium IGNITO 2017.

FDPs/STTPs:



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- Organizing Committee Team member of AICTE Sponsored One Week Online Short Term Training Program (STTP), Slot-2 Recent Advances in Micro Electro Mechanical Systems (MEMS), Mechatronics and Their Applications for Future Challenges during 21-09-2020 to 26-09-2020.
- Coordinator for one week online Faculty Development Program on Recent Trends in Manufacturing during 28-07-2020 to 01-08-2020.

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

- Guest Lecture by Mr. K Druv Rao, Founder and Business Development Director, Athena Edtech Pvt. Ltd. on Entrepreneurship and Building your own startup on 20.10.2023
- Guest Lecture by Dr. P. Chandra Sekhar, Technical Advisor, Ramoji Film City Hyderabad on Mechatronics in amusement in industry on 15-06-2023.
- Guest Lecture by G.Sai Kiran, Assistant Manager, Data Analytics and Electronics cell, Mahindra&Mahindra on Industry 4.0- Digital Automotive Manufacturing on 05/10/2020.
- Guest Lecture by Mr. G.H.Kotresha, Senior Design Engineer, Akuva Infotech Pvt. Ltd., Bangalore on 3D Scanning & Reverse Engineering on 28/09/2020.
- Guest Lecture by Mr. Sethupathy Rajesh, Senior Manager in Emerson Process Management, Noida on An Over view of Thermal Power Plant on 21/09/2020.
- Guest Lecture by Mr. Aravind Ramachandran, MTC, Chennai on Advanced Trends in Automation and Robotics on 14/09/2020.
- Guest Lecture by Dr.V.V.N.S Suresh, Associate Professor, Dept of Mechanical Engineering, MGIT on Need of High Spirituality for Students on 07/09/2020.
- Guest Lecture by Sarwat Hussain Head of Communication of World Bank Agriculture Global Practice on Evolution of Automobiles on 26-02-2020.
- Guest Lecture by Dr.P.Chandra Sekhar, Director, Technic Design Group on Advances in Mechatronics on 19-02-2020.
- Guest Lecture by Rohit from Tech fluent on Awareness on Lab View software on 14-02-2020.
- Conducted 2 day workshop on IC Engine module design in association with Robosapiens, India as part of IGNITO-2017 during 7-8 April, 2017.

Events Attended:

FDPs/STTPs:

1. Attended 38 Online FDPS/STTPS.
2. Two week Faculty Development program on “RECENT ADVANCES IN DESIGN AND DEVELOPMENT OF MECHATRONICS & ROBOTIC SYSTEMS” sponsored by AICTE at Mahatma Gandhi Institute of Technology, Hyderabad during 04-16 December, 2017.
3. ISTE-SRM short term training program on “Mechatronics” organized by MGIT sponsored by ISTE during 5th – 10th May, 2014.
4. one day Faculty Development Programme on “Project Management from an IndustryPerspective” at MGIT, Hyderabad on 08th March, 2014.
5. Two weeks, “Faculty Development Programme in Entrepreneurship” at M.G.I.T, Gandipet, Hyderabad during 22nd April to 4th May, 2013.
6. Two week “Faculty development programme in entrepreneurship” from 22nd April to 4th may 2013 organized by EDC, MGIT (Funded by AICTE).
7. One week Powder Metallurgy Couse (PMSC)-2012, Organised by Powder



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Metallurgy Association of India and Department of MME, MGIT during December 18-22, 2012 conducted at MGIT, Hyderabad

8. Two week FDP “Recent advances in Manufacturing automation and Simulation (RAMAS)” conducted by Dept. of Mechanical Engg, CBIT from May 7 – 19 2012.
9. one week ISTE Faculty development program on “Teaching, Learning and Research in Engineering and Technology” organized by ISTE chapter – MGIT and Industry-Institute Partnership Cell during 30 July – 3 August 2012.
10. One week STTP on “Rapid Prototyping and e-Manufacturing”, from March 23rd to 28th, 2009 at University College of Engineering, Osmania University, Hyderabad
11. One week STTP on Rapid Prototyping And e- Manufacturing held during 23-28, March 2009 organized by centre for prototyping and Testing of industrial products, Department of Mechanical engineering, University College of Engineering, Osmania University, Hyderabad.

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

1. Attended 52 Online Webinars/ Workshops/ Guest Lectures.
2. 3 weeks UGC sponsored summer school at JNTUH, Hyderabad on “Strategies for Research Oriented Teaching” during 5-24 June, 2017.
3. one day workshop on Advances in Welding and Surface Engineering [AWSE] organised by The Indian Institute of Welding, Hyderabad Branch on 17th October 2014.
4. Two day workshop on “Socio-effectiveness of women – WOW Factor” at MGIT, Hyderabad during 8th to 10th March, 2014.
5. Attended workshop on “Exploring Internet” at MGIT, Hyderabad on 18th February 2014.
6. Two day Workshop on “Recent trends in Manufacturing (RTM-2013)” organized by the department of mechanical Engineering CBIT, during 29th& 30th July 2013.
7. Participated in 32 orientation course organized by JNTUH from 18-2-2013 TO 18-4-2013 (4weeks) sponsored by UGC.
8. In-House training Programme on “Communication Strategies for Effective Teaching” held on 27-28 July 2007 at CBIT, Hyderabad.
9. Attended two day in house training Programme on communication Strategies for effective teaching during 27-28 July 2007, organized by CBIT.

Online Certifications:

1. Introduction to Engineering Mechanics an online non-credit course authorized by Georgia Institute of Technology and offered through Coursera 05/28/2020.
2. Introduction to Mechanical Engineering Design and Manufacturing with Fusion 360 an online non-credit course authorized by Autodesk and offered through Coursera 05/25/2020.
3. Fundamentals of Welding Science and Technology NPTEL Online Certification by IIT Gawahati January – March 2020.
4. Fundamentals of Manufacturing Process NPTEL Online Certification by IIT Roorkie July-October 2019.

Any Other Contribution:

1. Guided main projects for 4th Year Mechanical students.
2. Guided main projects for 4th Year Mechatronics students.
3. Guided mini projects for 4th Year Mechanical and Mechatronics students.
4. Paper setting for Mechanical Engineering subjects of UG Courses for autonomous Engineering colleges.



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