



Dr. RVSM. Ramakrishna

Assistant Professor



Education Qualifications: Doctor of Philosophy
Specialization: Materials Engineering

ADDRESS:

- A – Block -Room No: 003

JNTUH ID:

25150406-132052

EMAIL:

rvsmramakrishna_mme@mgit.ac.in

DATE OF JOINING:

01-07-2002

EXPERIENCE - 19 Years

- Teaching -19

SUMMARY:

- Publications - 8
- Conferences - 9
- Honors/Awards -1

EVENTS:

- Organized - 22
- Attended - 51

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Membership of Professional Bodies:

1. Life Member for Powder Metallurgy Association of India- LM83013
2. Founder Life member for Society for Failure Analysis - FLM-SFA-0089
3. Life Member for Electron Microscope Society of India- LM-1060

Responsibilities Held at Institution Level:

1. President, MGIT Alumni Association
2. Member, IQAC Cell, MGIT
3. Member, Students' Financial Support Committee, MGIT
4. Member, Public Relations Committee, MGIT
5. Chairman, Alumni Coordination Committee, MGIT
6. Convener, NIRVANA-2019, MGIT
7. Member, Anti Drugs Committee, MGIT
8. Cowarden, CBIT-MGIT Boys Hostel
9. Member, Web and Branding Committee, MGIT

Responsibilities Held at Department Level:

1. Class Coordinator
2. Students' Mentor
3. Member, Class Review Committee
4. Department Coordinator, PRERANA, MGIT
5. Coordinator, Students' Mini Projects (2019-2020)
6. Coordinator, Students' Seminar Course (2020-2021)
7. Department Coordinator, Autonomy Committee, MGIT
8. Member, Organizing Committee, Department level Technical Events
9. Member, Board of Studies, MME, MGIT
10. Laboratory Incharge

Honors/Awards Received:

1. INAE-Engineering Teachers' Mentoring Fellowship (2015)

Courses Handled at Under Graduate /Post Graduate Level:

1. **UG:** Physical Metallurgy, Powder Metallurgy, Thermodynamics, Metallurgical Thermodynamics, Polymeric Materials, Mechanical Metallurgy, Ceramics Science and Technology, Materials Thermodynamics, Nanomaterials, Surface Engineering, X-Ray Metallography, Composite Materials, Mechanical Working, Fuels, Furnaces and Refractories, and Heat Treatment

Publications:

1. RVSM Ramakrishna, "Microstructure and Mechanical Property Evolution of Post Weld Heat Treated Bainitic Steel Welds", Materials Today: Proceedings, 44 (2021), 2919-2925
2. RVSM Ramakrishna, "Narrow Gap Laser Welding of Structural Steels-A technological Review and Future Research Recommendations", International Journal of Advanced Manufacturing Technology, ISSN: 0268-3768 (2020)
3. VSM Ramakrishna R, "Conductive Polymers for Frontier Applications-An Overview", International Journal of Current Research (2020)
4. VSM Ramakrishna R, "Optimisation of post weld heat treatment cycle of fiber laser welded Bainitic steel", E3S Web of Conferences 184,01039 (2020)



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5. VSM Ramakrishna R, “3-D printed Carbon Fiber Reinforced Composite-Advanced and Efficient Automotive Material”, International Journal of Current Engineering and Scientific Research, ISSN 2394-0697 (2020)
6. VSM Ramakrishna R, “Laser Welding of ultrafine bainitic steels”, Indian Welding Journal (2019)
7. V.S.M.Ramakrishna R, “Recent Advances in welding of high strength bainitic steels for automotive applications”, Springer, 2018, ISBN: 9789811078927, DoI: https://doi.org/10.1007/978-981-10-7892-7_9
8. VSM Ramakrishna R, “Friction stir welding of advanced high strength (bainitic) steels for automotive applications”, Materials Today: Proceedings 5 (2018) 17139-17146

Conferences:

1. Microstructure and Mechanical Property Evolution of Post Weld Heat Treated Bainitic Steel Welds, International Conference on Materials and Technologies, MaterialTECH 2021, January 09-10, 2021
2. Friction crush welding: An innovative and cutting edge fabricating technology, National Conference on Research and Developments in Material Processing, Modelling and Characterization 2020 held during August 26-27, 2020.
3. Optimization of post weld heat treatment cycle of fiber laser welded bainitic steel, International Conference on Design and Manufacturing aspects of sustainable energy, July 10-12, 2020.
4. Optimization of Post Weld Heat Treatment (Pwht) Cycle Of Friction Stir Welded Advanced High Strength Steel, National seminar on Advances in Metallurgy and Manufacturing Technology, July 17-18, 2018
5. Advanced fabrication techniques of high strength steels for automotive applications, International Congress of welding held during December 7-9, 2017 at the Chennai Convention Center, Chennai
6. Friction stir welding of Advanced High strength (bainitic) steels for automotive applications, International Conference on Advances in Materials Processing: Challenges and Opportunities, IIT Roorkee, November 30-December 02, 2017
7. Recent Advances in welding of high strength bainitic steel for automotive applications, International Conference on Advanced Automotive High Strength Steels held at Jamshedpur during February 22-23, 2017
8. Thermal Stability and Mechanical Behaviour of nanostructured high entropy alloys, National Metallurgists’ Day-Annual Technical Meet, November 2012.
9. A Technical Poster on “Evaluation of Loading rate dependent mechanical properties of novel engineering materials at small length scales” has been displayed at the 7th National Frontiers of Engineering symposium for young engineers held at IIT Guwahati during October 12-14, 2012.



Events Organized:

Conferences:

1. 2- Day National Conference on **Advanced Steels for Strategic Applications** during December 30-31, 2015 at MGIT, Hyderabad
2. 3-Day National Conference on Metallurgy for Nonmetallurgists, January 29-31, 2015
3. 2- Day National Conference on Perspectives in Metallurgical and Materials Engineering, December 23-24, 2013
4. 2-Day National Convention on **Analysis and Prevention of Fracture and Failures** during February 03-04, 2012 at MGIT, Hyderabad
5. International Winter School on **Advances in Aeronautical Materials and Technologies** during December 15-19, 2010
6. One Day National Conference on **Indian Institute of Metals Students' Outreach Mission** on September 12, 2009 at MGIT, Hyderabad
7. International Conference on **Frontiers of Metallurgy and Materials Technology** during January 29-31, 2009
8. National Convention on **Frontiers of Metallurgy and Materials Technology** during December 26-28, 2003

FDPs/STTPs:

1. 5-Day FDP on Functional Materials: Processing and Technologies, August 03-08, 2020

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

1. 2-Day online National Workshop on "Emerging trends in Nondestructive Testing (NDE-2021) during October 09-10, 2021
2. One Day webinar on Advanced Nanomaterials: Photoactive nanofibers for catalytic applications, September 19, 2021
3. One Day webinar on Career Opportunities and Employment Prospects for MME Graduates, October 04, 2020
4. One Day Webinar on Hardfacing-Industrial Application, August 04, 2020
5. One Day webinar on Opportunities and Challenges in Friction Stir Welding and Processing of Nickel Based Superalloys, August 01, 2020
6. 3-Day Webinar on Secondary Melting Practices and Technologies, July 25-27, 2020
7. One Day National Seminar on Advances in Metallurgical and Materials Engineering, March 04, 2020
8. One Day workshop on Basics of Electron Microscope, February 07, 2020
9. Guest Lecture on Opportunities for Higher Education and placements in Australia, December 20, 2019
10. Guest Lecture on University Selection Criteria for masters and Ph.D. in Materials Engineering in Germany, August 31, 2019
11. Guest Lecture on Career opportunities for Material Scientist in USA, August 06, 2019
12. One Day National Convention on Insights into Material Characterization, March 11, 2019

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13. **One Day National workshop on** Recent Advances in Materials and Manufacturing Processes on February 19, 2018
14. **One Day National workshop on** Materials and Manufacturing Technologies, April 06, 2017

Events attended

FDPs/STTPs:

1. One week AICTE sponsored Faculty Development program on Novel Materials, October 04-08, 2021
2. One week AICTE sponsored Faculty Development Program on leadership and Excellence, September 27-October 01, 2021
3. One week AICTE sponsored Faculty Development Program on Nanomaterials and Nanotechnology, September 20-24, 2021
4. One week AICTE sponsored Faculty Development Program on Emerging Trends in Characterization Techniques for Applied Polymer Research, September 13-17, 2021
5. One week AICTE sponsored Faculty Development Program on Advancements in Manufacturing Technologies for Industrial Applications, August 24-28, 2020
6. One week Faculty Development program on Recent Trends in Manufacturing Technologies, July 28-August 01, 2020
7. One week AICTE recognized Faculty Development program on Materials processing and Optimization, July 06-10, 2020
8. One week Faculty Development program on Research Opportunities in Advanced Manufacturing Processes, June 22-28, 2020
9. One week Faculty Development program on Future Materials: Nanocomposites, June 15-21, 2020
10. One week International Faculty Development program on Research and Development in Materials Behaviour, Processing and characterization techniques, June 09-14, 2020
11. One week AICTE sponsored Faculty Development program on Waste Management, June 08-12, 2020
12. One week Faculty Development Program on “Outcome base education and Accreditation, May 25-29, 2020
13. Faculty Development Programme on ***Project Management from an Industry perspective*** organized by TCS, Hyderabad on March 08, 2014 at MGIT, Hyderabad
14. Faculty Development Program on ***Teaching, Learning, and Research in Engineering and Technology*** organized by ISTE-MGIT Chapter during July 30-August 03, 2012 at MGIT, Hyderabad
15. Faculty Development Programme on ***Effective Communication*** organized by the Department of Mathematics and Humanities, MGIT during June 20-30, 2005 at MGIT, Hyderabad.

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1. International e-quiz on International Yoga Day, June 21, 2020
2. Virtual Refresher Course on Materials Characterization, October 03- November 01, 2020
3. National Conference on Research and Development of Materials Processing, Modeling and Characterization, August 26-27, 2020
4. National Level quiz on Machine tools, July 27-28, 2020
5. One Day Webinar on Outcome based education software, July 16, 2020
6. International Conference on Design and Manufacturing Aspects for sustainable energy (ICMED-2020), July 10-12, 2020
7. National level E-quiz on IC Engines: Fuels and Combustion, July 11, 2020
8. National level Online Quiz on Importance of Solar Energy (Future for power generation), July 05, 2020
9. National level E-Quiz on Outcome base education, June 27, 2020
10. Short Course on Learn to design your solar home system, June 25, 2020
11. One Day webinar on Research Thrust areas in composites, May 20, 2020
12. One Day webinar on Designing High quality Rubrics and Research Methodologies, May 18, 2020
13. National level E-Quiz on Mechanics of Materials, May 16, 2020
14. National Level E-Quiz on CoViD-19 General Awareness, May 09, 2020
15. One Day webinar on Advanced Teaching-Learning Methods, Curriculum Design, Examination Reforms and setting quality question papers, May 04, 2020
16. One Day webinar on Intellectual Property rights and patenting, April 10, 2020
17. One Day webinar on Artificial Intelligence and Machine Learning, April 19, 2020
18. 3-Day National Workshop on NAAC's New Frame work for Accreditation & Assessment of HEIs: Opportunities and Challenges, September 19-21, 2019
19. National seminar on Advances in Metallurgy and Manufacturing technology, July 17-18, 2018
20. International Welding Congress, December 05-07, 2017
21. International conference on advances ion Materials & Processing: Challenges & opportunities (AMPCO'17), November 29-December 01, 2017
22. Two Day workshop on **Adoption of Technology in Teaching and Learning**, organized by the Department of Information Technology, MGIT during July 5-6, 2017
23. One Week course on **Synthesis, Manufacturing, Processing and Applications of Nanomaterials** organized by GIAN during March 07-11, 2016 at NITWaranagal, Warangal
24. **Solid Waste Management** organized by the Institution of Engineers (India) on November 14, 2015 at Institution of Engineers (India), Visweswarayya Bhavan, Hyderabad
25. Workshop on **Orientation Microscopy in SEM and TEM** organized by EMSI during November 05-06, 2015 at DMRL, Hyderabad
26. **Thermal Spray Coating Technologies** organized by C-MET on September 23, 2015 at ARC International, Hyderabad
27. Workshop on **Texture of Materials** organized by UGC-NRM during February 15-19, 2015 at IISc, Bangalore
28. **Emerging Technologies in Material Science and Engineering** organized by the Institution of Engineers (India) during March 18-19, 2014 at Institute of Aeronautical Engineering, Dundigal, Hyderabad



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29. 4-Week **Orientation Course** organized by the UGC-Academic Staff College during May 09, 2013-June 05, 2013 at Moulana Azad National Urdu University, Hyderabad
30. 3-Week Refresher Course on **New Generation Materials** organized by the UGC- Academic Staff College during February 22-March 06, 2013 at JNTU Hyderabad
31. National Convention on **New Materials and Processes for improving quality of infrastructure** organized by the School of Engineering Sciences and Technology, University of Hyderabad during October 19-20, 2012 at University of Hyderabad
32. International Conference on **Nanoscience and Technology** organized by ARC International, Hyderabad during January 20-23, 2012
33. National Level Conference on **Industrial Corrosion and its control** organized by TR Anantharaman Education Research Foundation, Hyderabad during September 16-17, 2011 at IIT Mumbai, Mumbai
34. 2-Day National Convention on **Powder Metallurgy at its Best** organized by the Powder Metallurgy Association of India during January 23-24, 2006 at Hotel Viceroy International, Hyderabad
35. International Training Course on **Surface Engineering** organized by ARC International, Hyderabad during July 19-26, 2005 at ARC International, Hyderabad.
36. Faculty Development Programme on **Effective Communication** organized by the Department of Mathematics and Humanities, MGIT during June 20-30, 2005 at MGIT, Hyderabad.

Online Certifications: Coursera Courses

3D Printing Revolution

Materials Science: 10 Things Every Engineer should know

Ferrous Technology I

Ferrous Technology II

Materials Processing

Material behavior

CoViD-19: Contact Tracing

Protecting the world: Introducing Corrosion Science and Engineering

Advanced Functional Ceramics

Fundamentals of Materials Science



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