

MAHATMA GANDHI INSTITUTE OF TECHNOLOGY
Gandipet, Hyderabad 500 075

FACULTY PROFILE

1. JNTUH REGISTRATION ID : 48150405-232624
2. NAME OF THE FACULTY : DR.P.VENKATA RAMANA
3. DESIGNATION : PROFESSOR
4. YEARS OF EXPERIENCE : Teaching – 21 years; Industry – 2 Years;
5. EMAIL ID : pvramana@mgit.ac.in
6. UG DEGREE : B.Tech. (Mechanical Engineering)
7. PG DEGREE : M.Tech. (Industrial Metallurgy); M.Tech. (Production Engineering)
8. PH.D(AREA OF THE PH.D WORK): Mechanical Engineering / Welding
9. SUBJECTS TAUGHT : Engineering Mechanics; Engineering Drawing; Mechanics of Solids; Automobile Engineering; Flexible Manufacturing System; Automation in Manufacturing; Intelligent Manufacturing System;
10. PAPER PUBLICATIONS IN INTERNATIONAL JOURNALS:
 1. G.Madhusudhan Reddy and P.Venkata Ramana, Role of Nickel as an Interlayer in Dissimilar Metal Friction Welding of Maraging Steel to Low Alloy Steel, Journal of Materials Processing Technology (Elsevier Publication), Vol. 212, No.1, January 2012, 66-77. [UGC- 24456; ISSN-09240136, SCOPUS]
 2. G.Madhusudhan Reddy and P.Venkata Ramana, Influence of Filler Material Composition on the Residual Stress Distribution of Dissimilar Gas Tungsten Arc Weldments of Ultrahigh Strength Steels, Science and Technology of Welding and Joining(Maney Publication, U.K.), Vol.16, No.3, 2011, 273-278. [UGC – 24020; ISSN-13621718; e-ISSN-17432936, SCOPUS]
 3. P.Venkata Ramana and G.Madhusudhan Reddy, Influence of surface remelting on distribution of residual stresses in medium alloy medium carbon steel gas tungsten arc weldment, Journal of Engineering Manufacture, Proceedings of the Institution of Mechanical Engineers, Part B, United Kingdom-Vol.224, No.B5, 2010, 739-744.[UGC- 38582; ISSN-09544054, SCOPUS]
 4. P.Venkata Ramana, G.Madhusudhan Reddy and A.V.S.S.K.S. Gupta, Microstructure and residual stress distribution of similar and dissimilar electron beam welds- Maraging steel to Medium alloy medium carbon steel, Materials and Design (Elsevier Publication), Vol.31, No.2, 2010, 749-760. [UGC- ; ISSN-02641275, SCOPUS]
 5. P.Venkata Ramana, G.Madhusudhan Reddy and A.V.S.S.K.S. Gupta, Influence of parent metal mechanical properties on those of the different ultra-high-strength steel electron



beam welds, Steel Grips (Grips media GmbH, Germany) – Vol.7, No.6,2009, 441-448

6. P.Venkata Ramana, G.Madhusudhan Reddy and T.Mohandas, Microstructure, hardness and residual stress distribution in maraging steel gas tungsten arc weldments, Science and Technology of Welding and Joining (Maney Publication, U.K.), Vol.13, No.4, 2008, 388-394. [UGC – 24020; ISSN-13621718; e-ISSN-17432936, SCOPUS]

11. PAPER PUBLICATIONS IN INTERNATIONAL CONFERENCES:

1. Satya Suresh V.V.N, Srinivasa Prakash Regalla and P.Venkata Ramana, Comparison of Welding Processes in the Forming of Tailor Welded Blanks, The International Institute of Welding 6th Welding Research and Collaboration Colloquium, 7 – 9 April 2016, Hyderabad.
2. P.Venkata Ramana and G.Madhusudhan Reddy, Dissimilar Metal Electron Beam Weldments of Maraging Steel and Medium Alloy Medium Carbon Steel – Effect of Post-Weld Heat Treatments on Mechanical Properties, International Institute of Welding International Conference (IIW-IC 2011), 21-22 July 2011, Chennai.
3. P.Venkata Ramana and G.Madhusudhan Reddy, Microstructure and mechanical properties of similar and dissimilar gas tungsten arc weldments of maraging steel and medium alloy medium carbon steel, International Welding Symposium (IWS2k10),10-12 February 2010, Mumbai.
4. P.Venkata Ramana and G.Madhusudhan Reddy, Effect of welding consumables on tensile strength, hardness and impact toughness of maraging steel gas tungsten arc welds, International symposium for Research Scholars (ISRS-2008), 10-12 December 2008, IIT Madras, Chennai, India.
5. P.Venkata Ramana and G.Madhusudhan Reddy, Influence of filler metal composition on microstructure and residual stress distribution of maraging steel gas tungsten arc weldments, International Institute of Welding- International Conference, IIW-IC 2008, 8-10 January 2008, Chennai, India.
6. P.Venkata Ramana, G.Madhusudhan Reddy and T.Mohandas, Effect of base metal heat treatment history and preheat on residual stress in high strength low alloy steel weldments, International Welding Conference (IWC'99) on Welding and Allied Technology,15-17 February 1999, New Delhi.

14. PAPER PUBLICATIONS IN NATIONAL JOURNALS:

1. P.Venkata Ramana, A study on Welding of Ultrahigh Strength Steels, Indian Welding Journal, 2017, Vol.50, No.1, 53-64. [UGC- 20923; ISSN-00469092, ICI]
2. P.Venkata Ramana and G.Madhusudhan Reddy, Dissimilar Metal Gas Tungsten Arc Weldments of Maraging Steel and Medium Alloy Medium Carbon Steel – Effect of Post-Weld Heat Treatments, Indian Welding Journal, 2012, Vol.45, No.1, 47-62. [UGC- 20923; ISSN-00469092, ICI]
3. P.Venkata Ramana, G.Madhusudhan Reddy and T.Mohandas, Residual stress distribution in

high strength low alloy steel weldments, Journal of Non-destructive Testing & Evaluation, 2007, Vol.6, No.1, 33-40. [UGC-24873; ISSN – 0973610]

15. PAPER PUBLICATIONS IN NATIONAL CONFERENCES:

1. K.Sri Harika and P.Venkata Ramana, Design and Fabrication of Automated Child Safety System in Automobiles, All India Seminar on Digital and Automation Entry into the Future Factories, 14-15 July 2017, The Institution of Engineers (IEI), Telangana State Centre, Hyderabad.
2. K.Ramanjaneyulu, P.Venkata Ramana and G.Madhusudhan Reddy, Advanced studies on influence of tool shoulder and tool pin profile on friction stir welds of AA 2014 aluminium alloys, National Welding Seminar (NWS-2016), 15 – 17 December 2016, Kolkata.
3. M.Pratyusha, P.Venkata Ramana and G.Prasanthi, An Overview of Joining of Al and its Alloys by Fusion and Solid-state Welding Processes, 6th National Conference on “Advances in Mechanical Engineering (AIM) – 2016”, 6 – 7 October 2016, Vasavi College of Engineering, Hyderabad.
4. P.Venkata Ramana, P.Mastanaiah and G.Madhusudhan Reddy, A Study on Residual Stress Distribution in the Dissimilar Metal Electron Beam Weldments of Ultrahigh Strength Steels, 25th National Seminar and International Exhibition on Non-Destructive Evaluation (NDE – 2015), 26 -28 November 2015, Hyderabad.
5. M.Pratyusha and P.Venkata Ramana, An overview of similar and dissimilar metal friction stir Al and Cu, National Conference on Advances in Mechanical Engineering, 19 - 20 September 2014. Nalla Malla Reddy Engineering College, Hyderabad.
6. P.Sampath Kumar and P.Venkata Ramana, Problems associated with dissimilar metal welds on transition joints – Literature review, National Conference on Advancement, Innovations in Engineering, Technology and Management, 19-20 March 2014, Joginpally B.R. Engineering College, Hyderabad.
7. G.Madhusudhan Reddy and P.Venkata Ramana, Microstructure and Impact Toughness of Dissimilar Metal Friction Welds of Maraging Steel and Low Alloy Steel, National Welding Seminar (NWS-2013), 7-9 February 2013, Bengaluru, India.
8. M.Pratyusha, M.Srinivas Rao and P.Venkata Ramana, Implementation Taguchi Method on EDM of Titanium alloy, National Conference on “Advances in Mechanical Engineering (AIM) – 2012”, 11–12 October 2012, Vasavi College of Engineering, Hyderabad
9. P.Venkata Ramana and G.Madhusudhan Reddy, A Study of Dissimilar Metal Gas Tungsten Arc Welds of Ultrahigh Strength Steels, National Welding Seminar (NWS-2011), 15-17 December 2011, Bhilai Steel Plant, India.
10. P.Venkata Ramana and G.Madhusudhan Reddy, Dissimilar Metal Gas Tungsten Arc Weldments of Maraging Steel and Medium Alloy Medium Carbon Steel – Effect of Post-Weld Heat Treatments, National Welding Seminar (NWS-2010), 21-23 December 2010, Visakhapatnam, India.
11. G.Madhusudhan Reddy and P.Venkata Ramana, Dissimilar Metal Friction Welding of

Maraging Steel to Low Alloy Steel with Nickel as an Interlayer, National Welding Seminar (NWS-2010), 21-23 December 2010, Visakhapatnam, India.

12. G.Madhusudhan Reddy, V.Venkteswara Rao and P.Venkata Ramana, Dissimilar Metal Gas Tungsten Arc Welds of Maraging Steel and High Strength Low Alloy Steel – Microstructure and Mechanical Properties, National Welding Seminar (NWS-2010), 21-23 December 2010, Visakhapatnam, India.
13. V.Venkteswara Rao, P.Venkata Ramana, G.Madhusudhan Reddy and A.V.Sitarama Raju, Influence of pre-weld heat treatment on microstructure, hardness and residual stresses in similar and dissimilar metal gas tungsten arc weldments of maraging steel and high strength low alloy steel, National Welding Meet (NWM-2010), 6 August 2010, Pondicherry, India.
14. P.Venkata Ramana and G.Madhusudhan Reddy, Microstructure, residual stress distribution and hardness of similar and dissimilar gas tungsten arc weldments of maraging steel and medium alloy medium carbon steel, National Welding Seminar (NWS-09), 10-12 December 2009, Kolkata, India.
15. K.V.Kasi Viswanatham and P.Venkata Ramana, Influence of machining conditions on performance characteristics, Manufacturing Modeling and Analysis- A National Conference, 11-12 February 2004, St. Joseph College of Engineering, Chennai.
16. P.Venkata Ramana and R.Uday Kumar, Residual stresses in Dissimilar Metal Pipe Welds, National Conference on Advances in Joining Technology, NCAJT-2004, 23-24 January 2004, Vasavi College of Engineering, Hyderabad.
17. R.Uday Kumar and P.Venkata Ramana, Measurement of stainless steel cladding thickness by using magnetic sensor, National Conference on Advances in Joining Technology, NCAJT-2004, 23-24 January 2004, Vasavi College of Engineering, Hyderabad.

16. RESEARCH PROJECTS UNDERTAKEN WITH NAME OF THE SPONSORING AGENCY:

UGC Minor Research Project on 'Dissimilar metal friction welding of Ti and Ni alloys using interlayers for high temperature applications'. (Rs.2,60,000/- sanctioned in August 2017)

17. RESEARCH GUIDANCE: M.Tech.: 03; Ph.D.: 02 (In progress)

18. CONTRIBUTIONS AT THE DEPARTMENTAL LEVEL:

1. In-charge Mechanics of Solids Lab
2. Class In-charge
3. NBA and NAAC works

19. CONTRIBUTIONS AT THE COLLEGE LEVEL:

1. Convener, Anti Ragging Committee, MGIT (2016-2019).
2. Training and Placement Officer (2012 to 2015).
3. Chief Coordinator, Industry-Institute Partnership Cell (IIPC), funded by AICTE.
4. Convener, Food Committee, MGIT.
5. Faculty Advisor, ISTE Students' Chapter – MGIT.
6. Member, Canteen Committee, MGIT.

7. Industry Liaison Officer for Civil, Mech, MCT and MME Departments.
8. Convener and member of various enquiry committees.
9. Convener, Security Committee, NIRVANA 2018.
10. Convener, Events Committee, NIRVANA 2017.
11. Convener, Events Committee, NIRVANA 2016.
12. Convener, Events Committee, NIRVANA 2015.
13. Convener, Events Committee, NIRVANA 2014.
14. Convener, Events Committee, NIRVANA 2013.
15. Convener, NIRVANA (An inter-collegiate techno-cultural festival of MGIT) for consecutive 8 years from 2001 to 2008.
16. Event Coordinator, Tier I and Tier II competitions of SAE during 13.08.2012 and 13.09.2012 respectively.

20. REFRESHER COURSES/ WORKSHOPS/CONFERENCES ATTENDED:

1. International Congress – 2017 & Young Professionals International Conference – 2017 of the International Institute of Welding during 07 – 09 December 2017 at Chennai.
2. BRIDGE-2017, Industry-Institute Interaction event on 25 October 2017 at Hotel Marigold, Hyderabad organized by ICT Academy.
3. All India Seminar on “Digital and Automation Entry into the Future Factories” during 14 – 15 July 2017, The Institution of Engineers (India), Telangana State Centre, Hyderabad.
4. ARCI TechEX 2017 at ARCI, Hyderabad during 27-28 February 2017.
5. National Welding Seminar 2016 (NWS-2016), 15-17 December 2016, Kolkata.
6. Sixth National Conference on Advances in Mechanical Engineering (AIM-2016) during 6 – 7 October 2016, Vasavi College of Engineering, Hyderabad.
7. National Welding Seminar 2015 (NWS-2015), 09 – 11 December 2015, Mumbai.
8. National Seminar NDE 2015 of Indian Society for Non-Destructive Testing organized by ISNT, Hyderabad Chapter during 26 -28 November 2015.
9. Continuing Education Programme on Use of Physical Simulations in Materials Research during 17-18 July 2015 organized by Dept. of Metallurgical and Materials Engineering, IIT Madras, Chennai.
10. Two Week AICTE sponsored Faculty Development Program on “Latest Developments in Hydraulics, Pneumatics and Electronic Control Systems” organized by the Department of Mechanical Engineering (Mechatronics), MGIT, Hyderabad during 04-16 May, 2015.
11. One Day FDP on “Agile Methodologies” organized by TCS at MGIT on 16th April 2015.
12. 17th ISTE Students National Annual Convention – 2014 during 10 – 11 October 2014 organized by V V P Engineering College, Rajkot, Gujarat.
13. Faculty Development Program on Project Management from an Industry Perspective, 08 March 2014 organized by Tata Consultancy Services at MGIT, Hyderabad.
14. CII Conference on Industry Institute Connect, 15 February 2013 at The Park Hotel, Hyderabad.
15. Two Week Faculty Development Program in Entrepreneurship during 22 April 2014 – 4

May 2014 organized by Entrepreneurship Development Cell, MGIT.

16. 42nd ISTE Annual Convention at Anurag Group of Institutions, Hyderabad during 20-22 December 2012.
17. National Convention on “Analysis and Prevention of Fractures and Failures” Organized by Society for Failure Analysis (SFA), MGIT, RCMA (Mat). CEMILAC, DRDO from February 03 – 04 2012 at MGIT, Hyderabad
18. National Welding Seminar (NWS-2010), 21-23 December 2010, Visakhapatnam, India.
19. National Welding Meet (NWM-2010), 06 August 2010, Pondicherry, India.
20. STTP on ‘Mechatronics’, 12-16 July, 2010, MGIT, Hyderabad.
21. International Welding Symposium (IWS2k10), 10-12 February 2010, Mumbai.
22. National Welding Seminar (NWS-09), 10-12 December 2009, Kolkata, India.
23. International symposium for Research Scholars (ISRS-2008), 10-12 December 2008, IIT Madras, Chennai, India.
24. International Institute of Welding- International Conference, IIW-IC 2008, 8-10 January 2008, Chennai, India.
25. National workshop on ‘Advances in Manufacturing’ at CBIT during 15-17 March 2007.
26. National Conference on Advances in Joining Technology, NCAJT-2004, 23-24 January 2004, Vasavi College of Engineering, Hyderabad.
27. AICTE-ISTE STTP on ‘Advanced Metal Working Techniques and Finite Element Simulations in Metal Forming’ at CBIT during 30 June-11 July 2003.
28. STTP on ‘Robotics and Automation Systems’ at MGIT during 2-7 June 2003.
29. AICTE-ISTE STTP on ‘Technology Upgradation and Evaluation of Ceramic Manufacturing Systems’ at KITS Warangal during 11-22 December 2000.
30. QIP Short Term Intensive Program on ‘Mechatronic Systems Design’ at IISc Bangalore during 11-22 September 2000.
31. AICTE-STTP on ‘Computer Aided Design and Analysis’ at CBIT during 16-27, August 1999.
32. International Welding Conference (IWC’99) on Welding and Allied Technology, 15-17 February 1999, New Delhi.

21. WORKSHOPS/ CONFERENCES/SEMINARS/FDP’s ORGANIZED:

1. Convener, MAGISTECH-2017 a Two Days National Level Technical Symposium for Engineering Students during 13-14 October, 2017.
2. Member, Technical Committee, All India Seminar on Digital and Automation Entry into the Future Factories during July 14-15, 2017 at The Institution of Engineers (India) Telangana State Centre, Hyderabad.
3. Convener, One Day Workshop on “Challenges in Joining of Advanced Materials” on behalf of IIW Hyderabad Branch on 26th May 2017.
4. Seminar on Skill Development and Career Options (with a focus on Non-Destructive Testing, Welding and Safety) on 20th January 2017 in collaboration with M/s Associated Engineering Services, Hyderabad, for Mech, MCT and MME students on behalf of IIPC-MGIT

5. One day workshop on “Cyber Security and GitHub” on 29th December 2016 for CSE and IT students on behalf of IIPC-MGIT.
6. Convener, ISTE TS and AP Students’ Convention and MAGISTECH-2016 and a Two Days National Level Technical Symposium for Engineering Students during 27-28 October, 2016.
7. Chief Coordinator, Industry-Institute Interaction Meet, 1st July 2016.
8. Convener, The International Institute of Welding 6th Welding Research and Collaboration Colloquium, 7 – 9 April 2016, Hyderabad.
9. Convener, MAGISTECH-2015, a Two Days National Level Technical Symposium for Engineering Students during 15-16 September 2015.
10. Convener, One Day Workshop on “Advances in Materials Joining Technologies” on behalf of IIW Hyderabad Branch on 29th May 2015.
11. FDP on Agile Methodologies on behalf of M/s TCS on 16th April 2015.
12. Faculty Development Program on Project Management from an Industry Perspective, 8 March 2014 organized by Tata Consultancy Services at MGIT, Hyderabad.
13. FDP on Service Oriented Architecture and Cloud Computing on behalf of M/s TCS on 15th November 2014.
14. Convener, One Day Workshop on “Advances in Welding & Surface Engineering” on behalf of IIW Hyderabad Branch on 17th October 2014
15. Convener, MAGISTECH-2014, a Two Days National Level Technical Symposium for Engineering Students during 17-18 September 2014.
16. Coordinator, ISTE – SRM STTP on Mechatronics during 5-10 May 2014
17. Member, Technical Events Committee, All India Seminar on ‘Green Initiatives in Mechanical Engineering’ organized by The Institution of Engineers (India) AP State Centre, Hyderabad.
18. Convener, ISTE AP State Students’ Convention and MAGISTECH-2013 and a Two Days National Level Technical Symposium for Engineering Students during 14-15 September, 2013.
19. Co-Convener, Faculty Development Program on “Teaching, Learning and Research in Engineering & Technology 30th July to 3rd August 2012 organized by ISTE and IIPC.
20. Convener, MAGISTECH-2012, a Two Days National Level Technical Symposium for Engineering Students during 14-15 September, 2012.
21. Chief Coordinator, Industry-Institute Interaction Meet, 9th March 2012.
22. Convener, MAGISTECH-2011, a Two Days National Level Technical Symposium for Engineering Students during 15-16 September, 2011.
23. Co-Convener, TECHNOVATION-2011, a Two Days National Level Technical Symposium during 28-29 February, 2012.

22. INVITED LECTURES DELIVERED:

1. “Welding of Advanced Materials” on 9th September 2017 at Dhanekula Institute of Engineering & Technology, Vijayawada.
2. “A Study on Welding of Ultrahigh Strength Steels”, Prof.Placid Rodriguez Memorial Lecture – 2016 at National Welding Seminar (NWS-2016) organized by Indian Institute of Welding at

Kolkata on 15th December 2016.

3. "Challenges in Dissimilar Metal Welding", A Two Day Seminar on Trends in Mechanical Engineering (Time), 22-23 February 2016, Vidya Jyothi Institute Of Technology, Aziz Nagar, Hyderabad.
4. "Dissimilar Metal Welding of Ultrahigh Strength Steels", IIW Hyderabad Branch Meeting on 21st February 2015 (Saturday) at Hotel Time Square, Opp. Clock Tower, Secunderabad.
5. "Issues Related to Welding of Ultrahigh Strength Steels", Two-Day National Conference on "Recent Innovations in Mechanical Engineering" (RIME - 2014) organized by Department of Mechanical Engineering, MVSR Engineering College, Hyderabad during 21 - 22 November 2014.
6. 'Dissimilar Metal Welding – Maraging Steel to Low Alloy Steel' on 22nd November 2013 during CEP at Defence Metallurgical Laboratory (DMRL) at Hyderabad.
7. 'Issues Regarding Welding of Steels in Defence Industry' on 23rd March 2013 at Course Work on Welding of Steels and Stainless Steels organized by Indian Institute of Welding (IIW) Chennai Branch at Mohammed Sathak A.J. Engineering College, Chennai.
8. 'Latest Trends in Manufacturing Technology' on 20th March 2013 during Mexmerixe 2k13 at Chilkur Balaji Institute of Technology, Hyderabad.
9. 'Welding Technology' during 3-4 March 2013 for Training the Trainers at National Academy of Construction (NAC), Hyderabad.
10. 'Latest Developments in Automobile Engineering' on 10th April 2012 at HITAM, Hyderabad.
11. 'Automobile Engineering' on 31st March 2012 at Vidya Jyothi Institute of Technology, Hyderabad.

23. MEMBERSHIP OF PROFESSIONAL BODIES:

1. Fellow – Institution of Engineers (India) - F-118130-7 dt.23.09.2013
2. Life Member - Indian Society for Technical Education (ISTE) LM – 35547, 2003
3. Life Member - Indian Welding Society (IWS) – L00271, 2008
4. Life Member - Indian Institute of Welding (IIW) HYD/M/R-10501/L, 2010
5. Life Member – Society for Failure Analysis (SFA) – FLM-SFA-0093, 2012

24. HONORS/AWARDS:

1. Prof. Placid Rodriguez Memorial Lecture – 2016 Award by Indian Institute of Welding (IIW)
2. Elected as Hon. Secretary of The Indian Institute of Welding (IIW), Hyderabad Branch for the terms 2014-15, 2015-16, 2016-17, 2017-18 and 2018-19.
3. Elected as Managing Committee member of Indian Society for Technical Education (ISTE) Telangana Section for the term 2015-2019.
4. Elected as Executive Member of Indian Welding Society (IWS), Hyderabad Centre for the term 2015-16.
5. As the Faculty Advisor, received ISTE Best Students' Chapter Award for the year 2013.

6. Weldwell Speciality Award-2010, a National award for Best Ph.D. Thesis in the field of welding in India, given by Indian Institute of Welding (IIW).
7. IWS Award for best presentation at International Welding Symposium held at Mumbai, India.
8. I.T.Mirchandani Memorial Research Award for First Best Research Paper in National Welding Seminar-2010 held at Visakhapatnam.
9. H.D.Govindraj Memorial Research Award for Second Best Research Paper in National Welding Seminar-2010 held at Visakhapatnam.
10. D&H Secheron Award for Best Presentation in National Welding Seminar-2010 held at Visakhapatnam.
11. Appreciation letter from Secretary and Correspondent, MGIT as Best Teacher.
12. Appreciation letter from Principal, MGIT as Best Teacher.
13. AICTE, New Delhi has sanctioned Rupees Ten Lakhs to establish Industry-Institute Partnership Cell (IIPC) at MGIT with me as Chief Coordinator.
14. Delivered Video Lecture Series on the subject Engineering Mechanics, for SONET, Govt. of A.P., Hyderabad.

25. ANY OTHER CONTRIBUTION

1. Reviewer of research papers for various International Journals
2. Panel Examiner for M.Tech. and Ph.D.Theses.