

J. C. Bose University of Science and Technology, YMCA, Faridabad

DR. HARI OM

Professor, Department of Mechanical Engineering
Ex-Controller of Examinations (Additional Charge)
Ex-Director, Internal Quality Assurance Cell (IQAC)
Ex-Member NAAC Steering Committee



ACADEMIC QUALIFICATION:

1. B.E. (Mechanical Engineering)-1995
Madan Mohan Malviya Engineering College, Gorakhpur (UP)
2. M. E. (Mechanical Engineering with specialization in Welding Engineering)-2000
IIT Roorkee (Formerly, University of Roorkee)
3. Ph.D. on “Stainless Steel Cladding by Advanced Submerged Arc Welding Process”, -2014
Department of Mechanical Engineering, IIT Delhi

PROFESSIONAL EXPERIENCE

1. Industrial Experience: 2 ½ **years**
2. Lecturer, Meerut Institute of Engineering and Technology, Meerut, UP : 2000-2004
3. Lecturer, YMCA Institute of Engineering, Faridabad, Haryana: 2004- 2008
4. Assistant Professor (old system), YMCA University of Science & Technology, Faridabad, Haryana: 2008-2011
5. Associate Professor, YMCA University of Science & Technology, Faridabad, Haryana: 2011-2014
6. Professor, J.C. Bose University of Science & Technology, Faridabad, Haryana: Since 2014
7. Additional charge of Controller of Examinations at YMCA University of Science and Technology: July 2016-November, 2018
8. Additional Charge of Director IQAC at YMCA University of Science and Technology: July, 2015- August, 2022
9. Additional charge of Controller of Examinations at J. C. Bose University of Science and Technology, YMCA: May, 2022-September, 2023

CONTRIBUTION TO TEACHING AND LEARNING

Area of Specialization: Welding Engineering and Materials Engineering

Subjects Taught/Teaching

1. Welding and Allied Processes (M.Tech.)
2. Materials Engineering (B.Tech.)
3. Basic Engineering Thermodynamics (B.Tech.)
4. Strength of Materials (B. Tech.)
5. Labs of Strength of Materials
6. Laboratory of Materials Engineering

Curriculum Development/Review

Within university

- Member of Departmental Curriculum Review committee twice i.e. 2010 and 2015
- Member board of studies for the session 2012-13 and 2013-14.

Outside university

- Attended the curriculum review meetings at NIOS Noida on 10.01.2014, 05.02.2015 and 23.09.2016
- Authored 03 chapters in their textbook for course in Welding Technology

Invited Lectures

1. Expert Lecture on “Welding Technology” in CEP Course on manufacturing processes for Armament, ARDE Pune: January, 30 - Feb 3, 2012.
2. Expert lecture on “Outcome Based Education and Bloom’s Taxonomy” during FDP on Advanced pedagogy in Outcome based education under TEQIP II, IET Alwar: November, 24-29, 2014.
3. Expert speaker of Theme on “Standards are world’s common language: A case of Welding” during World Standards’ Day Celebration, Bureau of Indian Standards, Faridabad: October, 16, 2015.
4. Expert Lecture on “Advanced Welding Procedures” during the AICTE Sponsored Short Term Training Programme (STTP) on “Advanced Manufacturing and Materials” in JSS Academy of Technical Education, NOIDA: December 28, 2020.
5. Expert lecture on “Advanced Welding Techniques” under department Expert lecture series delivered on April 8, 2024

CONTRIBUTION TO ADMINISTRATIVE ACTIVITIES

1. At Departmental level

- a. Founder and Teacher Coordinator of MechNext Club, from 2007-2015.
- b. Organizing member
 - i. National Conference TAME 2006
 - ii. National Conference TAME 2012

- c. M.Tech Co-ordinator from July, 2014 - December, 2015

2. At University Level

- a. Organizing member- National Conference on Role of Science and Technology towards Make in India, 2016
- b. Member of Core Team for NAAC accreditation process in the University.
- c. Director, Internal Quality Assurance Cell (IQAC), since Sept 2015-2022
- d. Controller of Examination (Additional Charge), since July, 2016-November, 2018
- e. Controller of Examination (Additional Charge), since May, 2022-September, 2023

CONTRIBUTION TO RESEARCH ACTIVITIES

Books/Chapters authored

Authored 03 Chapters in the text book on Welding Technology for **National Institute of Open Schooling, Delhi.**

Journal Paper Review

1. Reviewer of "Journal of Alloys and Compounds", Elsevier
2. Reviewer of "American Journal of Materials Science and Technology"
3. Reviewer of "YMCAUST International Journal of Research"

PhD./ M.Tech/B.Tech. Guidance

1. Ph.D. Guidance- One under progress
2. Several M.Tech. Project Guided,
3. Several B.Tech. Project Guided

PhD./ M.tech Thesis Review

1. Ph.D. Examiner of Jamia Milia Islamia, Delhi.
2. Ph.D. Examiner of Motilal Nehru National Institute of Technology Allahabad.
3. Ph.D. Examiner of Sanskriti University, Mathura Uttar Pradesh.
4. Ph.D. Examiner of IGNOU, New Delhi.
5. Two M.Tech Theses reviewed for Jamia Milia Islamia, Delhi.
6. Three M.Tech Theses reviewed for SLIET, Longowal, Punjab.

Sessions Chaird in Conferences

1. Trends and Advances in Mechanical Engineering (TAME- 2012), YMCA University of Science & Technology, Faridabad, October 19-20, 2012
2. National conference on recent trends in mechanical engineering (NCRTME-2015), RIET, Faridabad, January 14-15, 2015
3. International conference on Paradigm Shift in Management and Technology (PSIMT-2015), , April 9-10, 2015
4. National conference on “Role of Science and Technology towards Make in India”, YMCA University of Science & Technology, Faridabad, March, 5-7, 2016
5. 8th International Symposium on Fusion of Science and Technology (ISFT-2020) in the University from January 6 to 10, 2020
6. International conference TAME 2021, at J.C. Bose University of Science and Technology, YMCA, Faridabad 18th-19th March 2021
7. 10th International Symposium on Fusion of Science and Technology (ISFf-2024) at J.C. Bose University of Science and Technology, YMCA, Faridabad, January 04-08, 2024

LIST OF RESEARCH PAPERS

International Journals

1. Hari Om and Sunil Pandey. (2013). "Effect of heat input on dilution and heat affected zone in submerged arc welding process." *Sadhana (Springer)*, 38(6), pp 1369-1391. doi: 10.1007/s12046-013-0182-9. ISSN: 0256-2499 (Print) 0973-7677 (Online)
2. Hari Om and Sunil Pandey (2014). "Effect of ASAW parameters on bead hardness in surfacing applications" *YMCAUST International Journal of Research*, 2(2), pp 26-31. ISSN: 2319-9377.
3. Hari Om and Sunil Pandey (2014). "Effect of process parameters on weld penetration shape factor in ASAW based surfacing." *Int. Journal of Innovative Research in Science, Engineering and Technology* 3(6), pp 13590-13596. ISSN: 2319-8753 (E)
4. Hari Om and Sunil Pandey. (2014). "Modelling and optimization of advanced submerged arc welding process for stainless steel cladding." *International journal of Mechanical Engineering and Robotics* 2(2), pp 42-51. ISSN: 2321-5747.
5. Hari Om and Sunil Pandey. (2014). "Establishing relationship between ASAW parameters and welding voltage during surfacing." *Int. Journal of Advanced Mechanical Engineering* 4(6), pp 601-609. ISSN No. 2250 – 3234.
6. Hetram, Lakhwinder Singh and Hari Om (2015). "Shot Peening Effects on Material Properties: A Review" *International Journal for Innovative Research in Science & Technology*, 1(12), pp 480-484. ISSN (online): 2349-6010.
7. Deepak Sharma and Dr. Hari Om, "Joining of Three Dissimilar Material Using Friction Stir Welding: A Review" *International Journal of Engineering Sciences Paradigms and Researches (IJESPR)*, Volume 48, Special Issue, TAME 2019
8. Ajay Sharma, Dr. Hari Om and Dr. Sanjeev Goyal, "Integration Of Manufacturing System With Internet Of Things: A Review", *International Journal of Engineering Sciences Paradigms and Researches (IJESPR)*, Volume 48, Special Issue, TAME 2019

National Journals

9. Hari Om and Sunil Pandey. "Influence of polarity in submerged arc welding process." *ISST Journal of Mechanical Engineering* 1(1) pp 17-32. June 2010. ISSN 0976 – 7371.
10. Hetram, Lakhwinder Singh and Hari Om (2015). "Effects of Shot Peening on Hardness of low nickel austenitic steels", *Invertis Journal of Science and Technology*, 8(3), pp 1-5. ISSN 0973-8940

International Conferences

11. Hari Om and Sunil Pandey. "Establishing relationship between ASAW parameters and welding voltage during surfacing". Presented at 4th Int. conference on Advances in mechanical, Material, Manufacturing, Automobile, Aeronautical Engineering and Applied Physics (AMAEAP-2014), JNU, New Delhi. June 7-8, 2014.
12. Hari Om, Dinesh Rathod and Sunil Pandey. "Modeling of dilution and bead geometry in advanced submerged arc welding process for stainless steel cladding". in *Proceedings of International conference on Theoretical and Applied Research in Mechanical Engineering (ICTARME 2014)*, Goa, IRD India, May 18, 2014, pp 13-20. ISBN 978-3-643-24819-03

13. Vikram Singh Chandel, Hari Om and Sanjeev Goyal. "Identification of factors affecting the selection of stainless steel cladding process", presented at International Conference on Advances in Mechanical, Material Science, Manufacturing, Automobile, Aerospace Engineering and Applied Physics" (AMAEAP-2015), JNU, New Delhi, May 30-31, 2015.
14. Kapil Dev, Hari Om and Tilak Raj "A comprehensive review of Mechanical Properties of Materials during Friction Welding Process", International Conference on Trends and Advances in Mechanical Engineering (TAME-2021), March 18-19, 2021
15. Neeraj Kumar Sharma, Hari Om and Sandeep Grover, "Review To Identify Critical Success Factors of Friction Stir Welding", International Conference on Trends and Advances in Mechanical Engineering (TAME-2021), March 18-19, 2021

National Conferences

16. Hari Om and Sunil Pandey. "Effect of electrode polarity on bead quality in stainless steel cladding by ASAW", in Proceedings of National Conference on Recent Trends in Mechanical Engineering (NCRTME-2015), RIET, Faridabad, India, Jan 24, 2015, pp 175-180.
17. Hari Om and Sunil Pandey. "Effect of ASAW Process Parameters on Welding Current during Cladding". In Proceedings of 3rd National Conference on Emerging Technologies (NCET-2014), Trivandrum, Kerala. Aug 1-2, 2014.
18. Hari Om, Sunil Pandey and D. Rathod. D. "Mathematical modeling of HAZ in submerged arc welding process using factorial design technique"". in Proceedings of Trends and Advances in Mechanical Engineering (TAME- 2012), YMCA University of Science & Technology, Faridabad, India, Oct 19-20, 2012, pp 616-626. ISBN 978-93-5087-574-2
19. D. Rathod, Hari Om and Sunil Pandey. "Microstructure and weldability evaluation of dissimilar metal joint using paste technique for buttering layers ". in Proceedings of Trends and Advances in Mechanical Engineering (TAME- 2012), YMCA University of Science & Technology, Faridabad, India. Oct 19-20, 2012, pp 584-589. ISBN 978-93-5087-574-2
20. Hari Om and Sandeep Grover. "Health hazards in welding- A Review". Presented at National Seminar on safety in Industries- NSSI 2010, The institution of Engineers (India), Faridabad. May 21, 2010.
21. Hari Om and Sunil Pandey. "Effect of electrode polarity in submerged arc welding process". in Proceedings of 24th Indian Engineering Congress, NIT Surathkal, Mangalore, India. Dec 11-13, 2009.
22. Hari Om and Sunil Pandey. "Magnesium in automotive industry: Challenges ahead". in Proceedings of Recent Development in Manufacturing and Quality Management (RDMQM-2007), Mechanical Engineering Department, Punjab Engineering College Chandigarh, India, Oct 5-6, 2007, pp 100-103.
23. Hari Om. "Influence of welding parameters on mechanical properties of weldments in horizontal position GMAW". in Proceedings of Advances in Mechanical Engineering AIME-2006, New Delhi, Ane books India, Jan 20-21, 2006, pp 320-324.
24. Manisha and Hari Om. "Friction Stir Welding of Different Materials (Review Paper)" presented in National Conference on Role of Science and Technology towards Make in India, YMCAUST, Faridabad, March 5-7, 2016

- 25.**Manisha and Hari Om. "Defects in Friction Stir Welding-A review." presented in National conference on Recent Developments in Mechanical Engineering, UIET Rohtak, Nov. 20-21, 2015.
- 26.**Hetram, Lakhwinder Singh and Hari Om Chaudhary. "Effects of Shot Peening on hardness of low nickel austenitic steels." presented in National Conference on Recent Advancement in Mechanical Engineering (NCRAME-2015), DCTM Palwal. Apr 29-30, 2015.
- 27.**Vikram Singh Chandel, Hari Om and Sanjeev Goyal. "Gas metal arc weld cladding process: A review", in the proceedings of National Conference on Interdisciplinary Research in Science and Technology (NCIRST-2015), Lingaya's G V K S Institute of Management & Technology, Faridabad, Apr 17, 2015, pp 130-34.
- 28.**Rupinder Singh, Ranvijay Kumar, Hari Om, Lakhwinder Singh "Process Capability Analysis for GTAW Solution Of Stainless Steel Joints" Proceedings of the National Conference on Trends and Advances in Mechanical Engineering (TAME 2019) April 04-05, 2019