



(Dr Abhishek Dwivedi, PhD)
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PROFILE

Dr. Abhishek Dwivedi, (MIE), Assistant Professor, Department of Mechanical Engineering, Integral University, Lucknow is having around 13+ years of educating and 1 year of Industrial experience. Dr Dwivedi is Diploma and Post Diploma in Plastic and Mould Technology, from CIPET, Lucknow (Govt. of India), B.Tech.- Mechanical Engineering, Integral University, Lucknow, M.Tech in Computer Integrated Manufacturing, from MMMEC., Gorakhpur, (UP State Govt.) under AKTU., Lucknow, and PhD. in Mechanical Engineering (Corrosion Engineering) from Integral University, Lucknow. His aptitudes are tasks on Advance Mechanical Softwares and CNC Machines (CAD/CAM).

He has been awarded in the competitions like CAD (IUL), MAT-Lab (IITK) and best oral paper award from MRU, Faridabad. He is has also been recognized as "New Faces in Mechanical Engineering" by Marvelous Records Book of India. He has presented /attended / published a significant number of Research Article in SCI/Scopus/UGC at National and International conferences/seminars/Journals/workshops and organized as well.

He has authored / edited various books and book chapters; focusing on scientific and research including text books. He is related with numerous Society/Organizations/ journals as Member/Reviewer.

RESEARCH INTEREST:

- Polymer-based corrosion inhibitors for metal protection.
- Computer Integrated Manufacturing
- Computer Aided Manufacturing
- Advanced Manufacturing Techniques

SUMMARY OF RESEARCH ACCOMPLISHMENT:

- Number of publications in SCI indexed journals : 05
- Number of publications in Scopus indexed journals : 02
- Number of publications in Non-SCI / Scopus but Peer Reviewed : 15
- Number of publications in International Conferences : 06
- Text Book /Edited Books/ Book Chapters : 07
- Presentation in international conferences : 06
- The referee for various scientific journals : 09
- Citations : 167
- H index : 07
- I10 index : 06

PROFESSIONAL MEMBERSHIP:

- 2012 International Association of Computer Science and Informational Technology (IACSIT)
- 2012 International Association of Engineers (IAENG)
- 2014 Institute of Engineers India (IEI)
- 2014 Research Scholar Hub
- 2015 theIRED (Institute of research engineers and doctors) under Universal Association of Mechanical and Aeronautical Engineers
- 2016 International Academy for Science & Technology Education and Research (IASTER)
- 2016 International Society for Research and Development (ISRDR)
- 2020 Multidimensional Educational Technical & Research Society
- 2022 Hong Kong Chemical, Biological & Environmental Engineering Society (HKCBEEES)

COURSE TAUGHT:

- Measurement Metrology and Control
- Advanced Manufacturing Process
- Computer-Aided Manufacturing
- Manufacturing Science
- Six Sigma Methods, Approach & Applications
- Management Information System
- Production and Operation Management

ADMINISTRATIVE/DEPARTMENTAL RESPONSIBILITY

- Program Coordinator: B.Tech. Mechanical Engineering (Evening)
- Departmental Examination Coordinator
- Member core Team: Departmental Quality Assurance Committee (DQAC)
- Coordinator Departmental NAAC team for Criteria VI
- Incharge Measurement Metrology and control Lab
- Faculty Advisor, Literary Committee, Integral University, Lucknow

STUDENTS SUPERVISION

- PhD: 01 Thesis (Ongoing)
- M.Tech: 12 Dissertaion completed
- B.Tech: 10 major projects

PUBLISHED/GRANT PATENTS

- “AI-driven Hybrid Decision-Making Framework for Analysis and Prediction of Business Value Maximization” by Intellectual Property India, Application No 202311058894, Publication no 04/2023 of 06.10.2023
- “Die Set for Metal Matrix composites product preparation” by Intellectual Property India, Application No 405889-001, Granted on 13/2024 of 28.03.2024

PUBLISHED/ACCEPTED SCI/SCOPUS RESEARCH PAPERS

- “Performance analysis of microchannel heat sink with ribbed pinfins”, Oct 2024, International Journal of Heat and Fluid Flow, 109 (109529), 13, <https://doi.org/10.1016/j.ijheatfluidflow.2024.109529>, (**SCIE / IF 2.6**)
- “Coordination compounds as corrosion inhibitors of metals: A review”, 15 Jan 2024, Coordination Chemistry Reviews, 499 (215503), 26, <https://doi.org/10.1016/j.ccr.2023.215503>, (**SCIE / IF 20.6**)
- “Comparative study of polyanthranilic acid and sulfonated polyaniline on the mild steel corrosion in aqueous hydrochloric acid” 2024, Canadian Metallurgical Quarterly, 63 (3), 812–820, <https://doi.org/10.1080/00084433.2023.2242664>/ (**SCIE / IF 1.03**)
- “An experimental approach to find aniline-formaldehyde co-polymers as effective inhibitor on the interface of low carbon steel immersed in 0.5N HCl mixtures”, 13 Mar 2022, Journal of the Indian Chemical Society, 99 (3), 7, <https://doi.org/10.1016/j.jics.2022.100356>, (**SCIE / IF 0.24**)

- “Chemical and Electrochemical Study of Effect of Soluble Sulfonated Polystyrene on Mild Steel Interface in Hydrochloric Acid Solution”, Gazi University Journal of Science, 35 (3), 808-820, <https://doi.org/10.35378/gujs.936620>, **(ESCI / IF 0.17)**
- “An Overview of the Polymeric Materials that can be used to Prevent Metal Corrosion: A Review”, 31 Aug 2021, Journal of the Turkish Chemical Society Section A: Chemistry, 8 (3), 863-872, <https://doi.org/10.18596/jotcsa.894374> / **(SCOPUS / IF 1.08)**
- “Surface Assimilation and Corrosion Inhibition Characteristics of Water- Soluble Polyvinyl Alcohol on Mild Steel Surface in 0.5 M HCl Solution” 28 Feb 2021, Journal of the Turkish Chemical Society Section A: Chemistry, 8 (1), 217 - 228, <https://doi.org/10.18596/jotcsa.794721> / **(SCOPUS / IF 1.08)**

PAPER PUBLISHED IN INTERNATIONAL CONFERENCES

- “Protection of metal from corrosion using conducting polymers: A review”, International Conference on Green and Sustainable Chemistry Conference (GSCC2022), 17-19 Nov. 2022, organized by MRU, Faridabad and SERB, DST- India & DRDO India.
- “A review towards polymeric material used as a corrosion inhibitor for metals” International Seminar on Sources of Plant energy Environmental and Disaster Science: Impact of Non-Conventional Energy Resources (SPEEDS-2019), 7-8 Feb 2020, organized by SMS Lucknow and IEI, UPCST- U.P.
- “Effect of water soluble polymeric material on the mild steel corrosion in sulphuric acidic medium”, International Conference on Green and Sustainable Chemistry Conference (GSCC2019), 7-8 Nov. 2019, organized by MRU, Faridabad and SERB- DST, India, DRDO, India, IOCL-R&D Centre Faridabad, RSC, London.
(Best oral Paper Award)
- “Interaction of water soluble polyacrylic acid towards mild steel / hydrochloric acid interface”, International Conference on Contemporary Research in Mechanical Engineering with focus on Materials and Manufacturing (ICCRME2018), 06-07 April 2018 organized by Integral University Lucknow. Published in IOP Conf. Series: Materials Science and Engineering, / 1757-899X / 10.1088/1757-899X/404/1/012044 **(SCOPUS)**
- “Fabrication and Study of Mechanical Properties of Polypropylene based Composite developed by Biowaste Material”, International Seminar on Present Scenario and Future prospective of research in engineering and Sciences, 21 Jan 2017, organized by Integral University Lucknow and IEEE.
- “A review on Natural Fiber Composite”, International Seminar on Present Scenario and Future prospective of research in engineering and Sciences, 21 Jan 2017, organized by Integral University Lucknow and IEEE.

PUBLISHED NON-SCI-SCOPUS BUT PEER REVIEWED RESEARCH PAPERS

- “Analysis of Line Balancing Problem for Production of Fuel Tank Mounting Bracket”, 24 Jun 2023, International Journal of Scientific Research in Science, Engineering and Technology, 10 (3), 603-618, <https://doi.org/10.32628/IJSRSET23103173>, (IF 8.15)
- “Study of Mechanical Properties of Composite Material Based on Polypropylene and Rice Husk Filler: A Review” 28 Feb 2017, International Journal of Scientific Research in Science, Engineering and Technology (IJSRSET), 3 (1), 453-457. (IF 3.632)
- “An Investigation of Thermal Properties of Reinforced Coconut Coir-Bagasse Fibres Polymer Hybrid Composites” 28 Feb 2017, International Journal of Scientific Research in Science, Engineering and Technology (IJSRSET), 3 (1), 427-432 (IF 3.632)
- “A Review on Study the Methods and Applications of MQL using Natural Oils”, International Journal for Scientific Research & Development (IJSRD), Mar 2016, 4 (1), 715-718. (IF 2.39)
- “A Review on Natural Fiber Reinforced Polypropylene Composites: Application and Characteristics” Mar 2016, International Journal for Science and Advance Research in Technology (iJSART), 2 (3), 30-36. (IF 2.1)
- “An Extensive Literature Review Showing Relation between Process Parameter and Mechanical Properties of Welded Hard PVC by Hot Air Technique” Feb 2016 International Research Journal of Engineering and Technology (IRJET), 3 (2), 410-414. (IF 4.45)
- “Study and Analysis of Joining Dissimilar Materials Low Carbon Steel With High Strength Low Alloy Steel by Spot Resistance Welding with Dissimilar Thicknesses”, Oct 2015, International Journal for Scientific Research & Development (IJSRD), 3 (7), 628-630. (IF- 2.39)
- “Study of Characteristic of Natural Fiber Reinforced Polymer (NFRP) Composites: A Review”, July 2015, International Journal for Scientific Research & Development (IJSRD), 3 (4), 544-549. (IF 1.82)
- Study and Analysis of Natural Oil Based Cutting Fluids Using Minimum Quantity Lubrication System for Alloy Steel, Oct. 2014, International Journal of Pure and Applied Research in Engineering and Technology (IJPRET), 3 (2), 50-68. (IF 4.226)
- “Role of Computer and Automation in Design and Manufacturing for Mechanical and Textile Industries: CAD/CAM”, Aug. 2013, International Journal of Innovative Technology and Exploring Engineering (IJITEE), 3 (3), 174-181. (IF 1.276)
- “Historical Development of Quality Concept: Lean Manufacturing (LM)- Today and Tomorrow”, Aug. 2013, International Journal of Innovative Research and Studies (IJIRS), 2 (10), 567-594.
- “Waste Reduction Technique” Sept. 2013, International Journal of Research Fellow for Engineering (IJRFE), 1 (7), 47-58.

- “Analysis of Line Balancing problem” Sept. 2013, International Journal of Research Fellow for Engineering (IJRFE), 1 (7), 47-58.
- “Emerging Trends in Nano Technology for Modern Industries”, Oct 2012, International Journal of Engineering and Innovative Technology (IJEIT), 2 (6), 4-13. (IF 6.02)
- “An Analysis and Development of Software for Assembly Line Balancing Problem of Manufacturing Industry” April 2012, VSRD-International Journal of Mechanical, Civil, Automobile and Production Engineering, 2 (2), 74-87. (IF 3.89)

BOOK EDITED/ AUTHORED

- “Project Management: A Conceptual Approach to problem and solution”, (2020), Om Sai Tech books, Publishers and Distributors, India, ISBN: 978-93-89004-14-4
- “Introduction to Six Sigma: Methods, Approaches, and Applications”, (2016), New Age International (P) Ltd., India **Revised:** New Academic Science Ltd., ISBN: 978-93-859-2324-1 **revised** 978-1781831182
- “Line Balancing: Today and Tomorrow: A Problem of Manufacturing Industry”, (2012), LAP LAMBERT Academic Publishing, Germany, ISBN: 978-3-659-24162-8
- “Advances in Materials Technology”, (2023), Amber Publishers, Lucknow, ISBN: 978-81-962299-9-3 (DOI: <https://doi.org/10.5281/zenodo.10581848>)
- “Recent Trends in Mechanical Engineering”, (2023), Amber Publishers, Lucknow, ISBN: 978-81-962299-5-5.

BOOK CHAPTERS

- “Research on Laser Beam Cutting of Aluminium Alloy 6061 for Kerf Width: An Experimental Approach” Oct. 2023, Advances in Non- Conventional Manufacturing Process, Amber Publishers, ISBN: 978-81-962299-3-1,
 - “Metal Composites using Smart Material for Advanced Machining” Oct. 2023, Advances in Non- Conventional Manufacturing Process, Amber Publishers, ISBN: 978-81-962299-3-1.
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