

## **CURRICULUM-VITAE**



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### **EDUCATIONAL QUALIFICATIONS**

- PhD in Mechanical Engineering on "Role of 3D Scanner and Project 3D Printing in Product Design and Development" from Department of Mechanical Engineering, Faculty of Engineering, Jamia Millia Islamia, New Delhi, India in 2019.
- M. Tech. in Mechanical Engineering (Industrial & Production) from NIT Kurukshetra, Haryana, India in 2012.
- B.E. in Mechanical Engineering. From Govt. College of Engineering & Technology, Jammu affiliated to University of Jammu, J & K, India in 2010.

### **AWARD**

- Top 2% scientists award by Stanford's University in 2021.
- Top 2% scientists award by Stanford's University in 2022.
- Top 2% scientists award by Stanford's University in 2023.
- Top 2% scientists award by Stanford's University in 2024.

## Teaching Experience

- Currently working as an Associate Professor, Department of Mechanical Engineering, Faculty of Engineering and Technology, Jamia Millia Islamia, New Delhi, India, since 17<sup>th</sup> Oct. 2023.
- Assistant Professor in the Department of Mechanical Engineering, Faculty of Engineering and Technology, Jamia Millia Islamia New Delhi, India, from 17<sup>th</sup> July 2013 to 16 Oct 2023.
- 1 Year teaching experience in NIT Kurukshetra, Haryana, India, during 2012-2013.

## Research Publications

1. Haleem A, **Javaid M**, Singh RP. Encouraging Safety 4.0 to enhance industrial culture: An extensive study of its technologies, roles, and challenges. *Green Technologies and Sustainability*. 2025:100158.
2. **Javaid M**, Haleem A, Singh RP, Dhall S. Role of Virtual Reality in advancing education with sustainability and identification of Additive Manufacturing as its cost-effective enabler. *Sustainable Futures*. 2024:100324.
3. Saifi F, **Javaid M**, Haleem A, Anas SM. Computational Fluid Dynamics Approach for Predicting Pipeline Response to Various Blast Scenarios: A Numerical Modeling Study. *CMES-Computer Modeling in Engineering & Sciences*. 2024;140(3).
4. **Javaid M**, Haleem A, Singh RP. Health informatics to enhance the healthcare industry's culture: An extensive analysis of its features, contributions, applications and limitations. *Informatics and Health*. 2024.
5. **Javaid M**, Haleem A, Khan IH, Singh RP, Khan AA. Industry 4.0 and circular economy for bolstering healthcare sector: A comprehensive view on challenges, implementation, and futuristic aspects. *Biomedical Analysis*. 2024;1(2):174-98.
6. **Javaid M**, Haleem A, Singh RP, Ahmed M. Computer Vision to Enhance Healthcare Domain: An Overview of Features, Implementation, and Opportunities. *Intelligent Pharmacy*. 2024.
7. Haleem A, **Javaid M**, Singh RP. Perspective of leadership 4.0 in the era of fourth industrial revolution: A comprehensive view. *Journal of Industrial Safety*. 2024:100006.
8. Saifi F, **Javaid M**, Haleem A, Anas SM. Computational Optimization of CFRP Strip Thickness for Enhanced Blast Mitigation in Structural Pipe Retrofitting. In *Journal of Physics: Conference Series 2024* (Vol. 2891, No. 6, p. 062009). IOP Publishing.
9. Dixit C, Haleem A, **Javaid M**. Role of Digital Supply Chain in Industry 4.0: A Bibliometric Analysis. *Journal of Industrial Integration & Management*. 2024;9(4).
10. Saifi F, **Javaid M**, Haleem A, Anas SM. Enhancing Anti-Blast Capabilities of Pipelines with High-Performance Composite CFRP Laminate: Computational Fluid Dynamics-Based Predictive Analysis. In *IOP Conference Series: Materials Science and Engineering 2024* (Vol. 1316, No. 1, p. 012013). IOP Publishing.

11. Haleem A, **Javaid M**. Role of cognitive computing in enhancing innovative healthcare solutions. *Advances in Biomarker Sciences and Technology*. 2024;6:152-65.
12. **Javaid M**, Haleem A, Singh RP, Gupta S. Leveraging lean 4.0 technologies in healthcare: An exploration of its applications. *Advances in Biomarker Sciences and Technology*. 2024;6:138-51.
13. **Javaid M**, Haleem A, Singh RP, Sinha AK. Digital economy to improve the culture of industry 4.0: A study on features, implementation and challenges. *Green Technologies and Sustainability*. 2024:100083.
14. Haleem A, **Javaid M**, Singh RP. Exploring the competence of ChatGPT for customer and patient service management. *Intelligent Pharmacy*. 2024.
15. Akhtar MN, Haleem A, **Javaid M**, Vasif M. Understanding Medical 4.0 implementation through enablers: An integrated multi-criteria decision-making approach. *Informatics and Health*. 2024;1(1):29-39.
16. Akhtar MN, Haleem A, **Javaid M**. Exploring the advent of Medical 4.0: A bibliometric analysis systematic review and technology adoption insights. *Informatics and Health*. 2024;1(1):16-28.
17. Akhtar MN, Haleem A, **Javaid M**, Mathur S, Vaish A, Vaishya R. Artificial intelligence-based orthopaedic perpetual design. *Journal of Clinical Orthopaedics and Trauma*. 2024 Feb 3:102356.
18. Haleem A, **Javaid M**, Khan IH, Mohan S. Significant Applications of Artificial Intelligence Towards Attaining Sustainability. *Journal of Industrial Integration & Management*. 2023;8(4).
19. Ahmad M, **Javaid M**, Haleem A. Enhancing biocompatible metal alloy fabrication for bio implants through laser-based additive manufacturing (LBAM). *Biomedical Analysis*. 2024;1(1):73-85.
20. Haleem A, **Javaid M**, Rab S, Singh RP, Suman R, Kumar L. Significant potential and materials used in additive manufacturing technologies towards sustainability. *Sustainable Operations and Computers*. 2023;4:172-82.
21. Ahmad M, **Javaid M**, Haleem A. A study on fused deposition modeling (FDM) and laser-based additive manufacturing (LBAM) in the medical field. *Intelligent Pharmacy*. 2024 Feb 28.
22. **Javaid M**, Haleem A, Singh RP, Khan S, Khan IH. Unlocking the opportunities through ChatGPT Tool towards ameliorating the education system. *BenchCouncil Transactions on Benchmarks, Standards and Evaluations*. 2023 Jun 1;3(2):100115.
23. Haleem A, **Javaid M**, Singh RP, Suman R. Exploring the revolution in healthcare systems through the applications of digital twin technology. *Biomedical Technology*. 2023 Dec 1;4:28-38.
24. **Javaid M**, Haleem A, Singh RP, Suman R. 5G technology for healthcare: Features, serviceable pillars, and applications. *Intelligent Pharmacy*. 2023 May 10.
25. Khan M, Haleem A, **Javaid M**. Changes and improvements in Industry 5.0: A strategic approach to overcome the challenges of Industry 4.0. *Green Technologies and Sustainability*. 2023 May 1;1(2):100020.

26. **Javaid M**, Haleem A, Singh RP. ChatGPT for healthcare services: An emerging stage for an innovative perspective. *BenchCouncil Transactions on Benchmarks, Standards and Evaluations*. 2023 Apr 20:100105.
27. **Javaid M**, Haleem A. Digital Twin applications toward Industry 4.0: A Review. *Cognitive Robotics*. 2023 Apr 15.
28. **Javaid M**, Haleem A, Singh RP, Suman R. Towards insighting Cybersecurity for Healthcare domains: A comprehensive review of recent practices and trends. *Cyber Security and Applications*. 2023 Mar 11:100016.
29. **Javaid, M.**, Haleem, A., & Singh, R. P. A study on ChatGPT for Industry 4.0: Background, Potentials, Challenges, and Eventualities. *Journal of Economy and Technology*. 2023.
30. Dhall, S., Rab, S., Pal, S. K., **Javaid, M.**, Khan, A. A., & Haleem, A. Identifying the feasibility of 'travelator roads' for modern-era sustainable transportation and its prototyping using Additive Manufacturing. *Sustainable Operations and Computers*. 2023.
31. Akhtar, M. N., Haleem, A., & **Javaid, M.** Scope of health care system in rural areas under Medical 4.0 environment. *Intelligent Pharmacy*. 2023.
32. **Javaid M**, Haleem A, Singh RP, Suman R. Sustaining the healthcare systems through the conceptual of biomedical engineering: A study with recent and future potentials. *Biomedical Technology*. 2023 Mar 1;1:39-47.
33. **Javaid M**, Haleem A, Khan IH, Suman R. Understanding the potential applications of Artificial Intelligence in Agriculture Sector. *Advanced Agrochem*. 2023 Mar 1;2(1):15-30.
34. Haleem A, **Javaid M**, Singh RP, Rab S, Suman R. Applications of Nanotechnology in Medical field. *Global Health Journal*. 2023 Feb 25.
35. Haleem A, **Javaid M**, Singh RP, Suman R, Qadri MA. A pervasive study on Green Manufacturing towards attaining sustainability. *Green Technologies and Sustainability*. 2023 Feb 9:100018.
36. Shoeb M, Kumar L, Haleem A, **Javaid M**. Trends in additive manufacturing: an exploratory study. In *Advances in Additive Manufacturing Artificial Intelligence, Nature-Inspired, and Biomanufacturing 2023* Jan 1 (pp. 15-25). Elsevier.
37. Haleem A, **Javaid M**, Singh RP, Suman R, Khan S. Management 4.0: Concept, applications and advancements. *Sustainable Operations and Computers*. 2023 Jan 1;4:10-21.
38. **Javaid M**, Haleem A, Singh RP, Suman R, Gonzalez ES. Understanding the adoption of Industry 4.0 technologies in improving environmental sustainability. *Sustainable Operations and Computers*. 2022 Jan 26.
39. Khan IH, **Javaid M**. Role of Internet of Things (IoT) in adoption of Industry 4.0. *Journal of Industrial Integration and Management*. 2022 Dec 18;7(04):515-33.
40. Haleem A, **Javaid M**. Enablers, barriers, and critical success factors for effective adoption of color-jet 3D printing technology. *Journal of Industrial Integration and Management*. 2022 Dec 4;7(04):599-625.

41. **Javaid M**, Haleem A, Singh RP, Rab S, Suman R, Kumar R. Studies on the metrological need and capabilities of 3D scanning technologies. *Journal of Industrial Integration and Management*. 2022 Nov 25:1-9.
42. **Javaid M**, Khan S, Haleem A, Rab S. Adoption of modern technologies for implementing industry 4.0: an integrated MCDM approach. *Benchmarking: An International Journal*. 2022 Nov 8(ahead-of-print).
43. **Javaid M**, Haleem A, Singh RP, Suman R. 3D printing applications for healthcare research and development. *Global Health Journal*. 2022 Nov 3.
44. **Javaid M**, Haleem A, Singh RP, Suman R, Khan S. A review of Blockchain Technology applications for financial services. *BenchCouncil Transactions on Benchmarks, Standards and Evaluations*. 2022 Oct 22:100073.
45. **Javaid M**, Haleem A, Singh RP, Rab S, Suman R, Kumar L. Utilization of Robotics for Healthcare: A Scoping Review. *Journal of Industrial Integration and Management*. 2022 Oct 13.
46. Haleem A, **Javaid M**, Singh RP. An era of ChatGPT as a significant futuristic support tool: A study on features, abilities, and challenges. *BenchCouncil transactions on benchmarks, standards and evaluations*. 2022 Oct 1;2(4):100089.
47. **Javaid M**, Haleem A, Singh RP, Khan S, Suman R. An extensive study on Internet of Behavior (IoB) enabled Healthcare-Systems: Features, facilitators, and challenges. *BenchCouncil Transactions on Benchmarks, Standards and Evaluations*. 2022 Oct 1;2(4):100085.
48. Haleem A, **Javaid M**, Qadri MA, Singh RP, Suman R. Artificial intelligence (AI) applications for marketing: A literature-based study. *International Journal of Intelligent Networks*. 2022 Sep 5.
49. Haleem A, **Javaid M**, Singh RP, Rab S, Suman R, Kumar L, Khan IH. Exploring the potential of 3D Scanning in Industry 4.0: An Overview. *International Journal of Cognitive Computing in Engineering*. 2022 Aug 18.
50. **Javaid M**, Haleem A, Singh RP, Suman R, Hussain B, Rab S. Extensive Capabilities of Additive Manufacturing and Its Metrological Aspects. *MAPAN*. 2022 Jun 18:1-4.
51. **Javaid M**, Haleem A, Singh RP, Rab S, Suman R, Khan IH. Evolutionary trends in progressive cloud computing based healthcare: Ideas, enablers, and barriers. *International Journal of Cognitive Computing in Engineering*. 2022 Jun 1;3:124-35.
52. Haleem A, **Javaid M**, Qadri MA, Suman R. Understanding the role of digital technologies in education: A review. *Sustainable Operations and Computers*. 2022 May 23.
53. Haleem A, **Javaid M**, Singh RP, Suman R, Rab S. Holography and its applications for industry 4.0: An overview. *Internet of Things and Cyber-Physical Systems*. 2022 May 14.
54. **Javaid M**, Haleem A, Singh RP, Rab S, Suman R, Kumar L. Significance of 4D printing for dentistry: Materials, process, and potentials. *Journal of Oral Biology and Craniofacial Research*. 2022 May 13.

55. Haleem A, **Javaid M**, Singh RP, Suman R. Medical 4.0 technologies for healthcare: Features, capabilities, and applications. *Internet of Things and Cyber-Physical Systems*. 2022 Apr 14.
56. **Javaid M**, Haleem A, Singh RP, Rab S, Haq MI, Raina A. Internet of Things in the global healthcare sector: Significance, applications, and barriers. *International Journal of Intelligent Networks*. 2022 Jan 1;3:165-75.
57. **Javaid M**, Haleem A, Singh RP, Rab S, Suman R. Significant applications of Cobots in the field of manufacturing. *Cognitive Robotics*. 2022 Jan 1;2:222-33.
58. **Javaid M**, Haleem A, Singh RP, Suman R. Enhancing smart farming through the applications of Agriculture 4.0 technologies. *International Journal of Intelligent Networks*. 2022 Jan 1;3:150-64.
59. **Javaid M**, Haleem A, Khan IH, Singh RP, Suman R, Mohan S. Significant features and applications of Drones for Healthcare: An overview. *Journal of Industrial Integration and Management*. 2022.
60. **Javaid M**, Haleem A, Singh RP, Khan S. Understanding roles of virtual reality in radiology. *Internet of Things and Cyber-Physical Systems*. 2022 Jan 1;2:91-8.
61. **Javaid M**, Haleem A, Singh RP, Khan S, Suman R. Sustainability 4.0 and its applications in the field of manufacturing. *Internet of Things and Cyber-Physical Systems*. 2022 Jan 1;2:82-90.
62. **Javaid M**, Haleem A, Singh RP, Suman R, Rab S. Significance of machine learning in healthcare: Features, pillars and applications. *International Journal of Intelligent Networks*. 2022 Jan 1;3:58-73.
63. **Javaid M**, Haleem A, Singh RP, Suman R. Enabling flexible manufacturing system (FMS) through the applications of industry 4.0 technologies. *Internet of Things and Cyber-Physical Systems*. 2022 Jan 1;2:49-62.
64. Rab S, Hayat A, Haleem A, **Javaid M**, Hasija MK. Supply chain and logistics for COVID-19 vaccines: Challenges and opportunities. *Apollo Medicine*.
65. Haleem A, **Javaid M**, Singh RP, Rab S, Suman R. Perspectives of cybersecurity for ameliorative Industry 4.0 era: a review-based framework. *Industrial Robot: the international journal of robotics research and application*. 2022 Feb 16.
66. Qazi AM, Mahmood SH, Haleem A, Bahl S, **Javaid M**, Gopal K. The impact of smart materials, digital twins (DTs) and Internet of things (IoT) in an industry 4.0 integrated automation industry. *Materials Today: Proceedings*. 2022 Feb 10.
67. Haleem A, **Javaid M**, Suman R, Vaishya R. Exploring the capabilities of modern technologies for health care. *Apollo Medicine*.
68. **Javaid M**, Haleem A, Rab S, Singh RP, Suman R, Mohan S. Progressive schema of 5G for Industry 4.0: features, enablers, and services. *Industrial Robot: the international journal of robotics research and application*. 2022 Jan 19.
69. Fazal N, Haleem A, Bahl S, **Javaid M**, Nandan D. Digital Management Systems in Manufacturing Using Industry 5.0 Technologies. *Advancement in Materials*,

- Manufacturing and Energy Engineering, Vol. II 2022 (pp. 221-234). Springer, Singapore.
70. Ammar M, Haleem A, **Javaid M**, Bahl S, Nandan D. Improving the Performance of Supply Chain Through Industry 4.0 Technologies. *Advancement in Materials, Manufacturing and Energy Engineering*, Vol. II 2022 (pp. 197-209). Springer, Singapore.
  71. Shamoon A, Haleem A, Bahl S, **Javaid M**, Garg SB. Role of energy technologies in response to climate change. *Materials Today: Proceedings*. 2022 Feb 15.
  72. **Javaid M**, Haleem A, Singh RP, Rab S, Suman R. Exploring impact and features of machine vision for progressive industry 4.0 culture. *Sensors International*. 2022 Jan 1;3:100132.
  73. Shoeb M, Kumar L, Haleem A, **Javaid M**. Composites in Context to Additive Manufacturing. In *Proceedings of the International Conference on Industrial and Manufacturing Systems (CIMS-2020) 2022* (pp. 491-503). Springer, Cham.
  74. Haleem A, **Javaid M**, Singh RP, Suman R. Significant roles of 4D printing using smart materials in the field of manufacturing. *Advanced Industrial and Engineering Polymer Research*. 2021 May 31.
  75. Vaishya R, Iyengar KP, Khan IH, **Javaid M**. Drones for fighting COVID-19 Pandemic. *Current Medicine Research and Practice*. 2021 Nov 1;11(6):303.
  76. **Javaid M**, Haleem A, Singh RP, Rab S, Suman R. Exploring impact and features of Machine Vision for progressive Industry 4.0 culture. *Sensors International*. 2021 Nov 6:100132.
  77. Haleem A, **Javaid M**, Suman R, Singh RP. 3D Printing Applications for Radiology: An Overview. *Indian Journal of Radiology and Imaging*. 2021 Jan;31(01):010-7.
  78. **Javaid M**, Haleem A, Singh RP, Rab S, Suman R, Khan S. Exploring relationships between Lean 4.0 and manufacturing industry. *Industrial Robot: the international journal of robotics research and application*. 2021 Oct 22.
  79. Haleem A, **Javaid M**, Singh RP, Suman R, Rab S. Blockchain technology applications in healthcare: An overview. *International Journal of Intelligent Networks*. 2021 Sep 15.
  80. **Javaid M**, Haleem A, Singh RP, Suman R. Artificial Intelligence Applications for Industry 4.0: A Literature-Based Study. *Journal of Industrial Integration and Management*. 2021 Oct 21:1-29.
  81. Vaishya R, **Javaid M**, Khan IH, Vaish A, Iyengar KP. Significant role of modern technologies for COVID-19 pandemic. *Journal of Industrial Integration and Management*. 2021 Jun 4;6(02):147-59.
  82. **Javaid M**, Haleem A, Singh RP, Rab S, Suman R. Exploring the potential of Nanosensors: A brief overview. *Sensors International*. 2021 Oct 19:100130.

83. Kamran SS, Haleem A, Bahl S, **Javaid M**, Nandan D, Verma AS. Role of smart materials and digital twin (DT) for the adoption of electric vehicles in India. *Materials Today: Proceedings*. 2021 Oct 5.
84. **Javaid M**, Khan IH, Singh RP, Rab S, Suman R. Exploring contributions of drones towards Industry 4.0. *Industrial Robot: the international journal of robotics research and application*. 2021 Nov 30.
85. Ammar M, Haleem A, **Javaid M**, Bahl S, Verma AS. Implementing Industry 4.0 technologies in self-healing materials and digitally managing the quality of manufacturing. *Materials Today: Proceedings*. 2021 Oct 5.
86. Ashima R, Haleem A, **Javaid M**, Rab S. Understanding the role and capabilities of Internet of Things-enabled Additive Manufacturing through its applications. *Advanced Industrial and Engineering Polymer Research*. 2021 Dec 18.
87. Raina A, Haq MI, **Javaid M**, Rab S, Haleem A. 4D Printing for Automotive Industry Applications. *Journal of The Institution of Engineers (India): Series D*. 2021 Sep 24:1-9.
88. Haleem A, **Javaid M**, Singh RP, Rab S, Suman R. Hyperautomation for the enhancement of automation in industries. *Sensors International*. 2021 Aug 17:100124.
89. Suman R, **Javaid M**, Nandan D, Bahl S, Haleem A. Electricity generation through water supply pipes in high rise buildings. *Journal of Industrial Integration and Management*. 2021 Dec 16;6(04):449-68.
90. **Javaid M**, Haleem A, Singh RP, Khan S, Suman R. Blockchain technology applications for Industry 4.0: A literature-based review. *Blockchain: Research and Applications*. 2021 Aug 12:100027.
91. Khan IH, **Javaid M**. Role of Internet of Things (IoT) in adoption of Industry 4.0. *Journal of Industrial Integration and Management*. 2021 Mar 3:2150006.
92. **Javaid M**, Haleem A, Singh RP, Suman R, Rab S. Role of Additive Manufacturing applications towards environmental sustainability. *Advanced Industrial and Engineering Polymer Research*. 2021 Aug 10.
93. Khan IH, **Javaid M**. Big data applications in medical field: A literature review. *Journal of Industrial Integration and Management*. 2021 Mar 24;6(01):53-69.
94. **Javaid M**, Haleem A. 3D Bioprinting applications for printing of skin: A brief study. *Sensors International*. 2021 Jul 31:100123.
95. Kumar L, Haleem A, **Javaid M**. Impact of three dimensional printing in orthopedics. *Global Health Journal*. 2021 Dec 1;5(4):178-82.
96. **Javaid M**, Haleem A, Singh RP, Rab S, Suman R. Internet of behaviours (IoB) and its role in customer services. *Sensors International*. 2021 Jul 30:100122.
97. **Javaid M**, Khan IH. Internet of Things (IoT) enabled healthcare helps to take the challenges of COVID-19 Pandemic. *Journal of Oral Biology and Craniofacial Research*. 2021 Apr 1;11(2):209-14.



98. Haleem A, **Javaid M**, Singh RP, Suman R. Telemedicine for Healthcare: Capabilities, features, barriers, and applications. *Sensors International*. 2021 Jul 24:100117.
99. **Javaid M**, Haleem A, Singh RP, Suman R. Pedagogy and innovative care tenets in COVID-19 pandemic: An enhance way through Dentistry 4.0. *Sensors International*. 2021 Jul 24:100118.
100. **Javaid M**, Haleem A, Rab S, Singh RP, Suman R. Sensors for daily life: a review. *Sensors International*. 2021 Jul 24:100121.
101. Bahl S, Bagha AK, **Javaid M**, Haleem A. Advancement of multi-agent system in healthcare during COVID-19 pandemic. *Current Medicine Research and Practice*. 2021 Jul 1;11(4):199.
102. **Javaid M**, Haleem A, Singh RP, Suman R. Significance of Quality 4.0 towards comprehensive enhancement in manufacturing sector. *Sensors International*. 2021 Jun 24:100109.
103. **Javaid M**, Haleem A, Singh RP, Rab S, Suman R. Significance of Sensors for Industry 4.0: Roles, Capabilities, and Applications. *Sensors International*. 2021 Jun 17:100110.
104. **Javaid M**, Haleem A, Singh RP, Suman R. Substantial Capabilities of Robotics in Enhancing Industry 4.0 implementation. *Cognitive Robotics*. 2021 Jun 6.
105. Haleem A, **Javaid M**, Singh RP, Suman R. Quality 4.0 technologies to enhance traditional Chinese medicine for overcoming healthcare challenges during COVID-19. *Digital Chinese Medicine*. 2021 Jun 1;4(2):71-80.
106. **Javaid M**, Haleem A, Singh RP, Suman R. Dentistry 4.0 technologies applications for dentistry during COVID-19 pandemic. *Sustainable Operations and Computers*. 2021 May 29.
107. Tasneem I, Ariz A, Bharti D, Haleem A, **Javaid M**, Bahl S. 3D Printing Technology and its Significant Applications in the Context of Healthcare Education. *Journal of Industrial Integration and Management*. 2021 May 25:1-8.
108. Haleem A, **Javaid M**, Singh RP, Suman R, Rab S. Biosensors applications in medical field: A brief review. *Sensors International*. 2021 May 13:100100.
109. Azeem M, Haleem A, **Javaid M**. Symbiotic relationship between machine learning and Industry 4.0: A review. *Journal of Industrial Integration and Management*. 2021 Mar 19:2130002.
110. **Javaid M**, Haleem A, Singh RP, Suman R. Significant applications of big data in Industry 4.0. *Journal of Industrial Integration and Management*. 2021 Mar 4:1-9.
111. Azeem M, Haleem A, Bahl S, **Javaid M**, Suman R, Nandan D. Big data applications to take up major challenges across manufacturing industries: A brief review. *Materials Today: Proceedings*. 2021 Feb 27.
112. **Javaid M**, Haleem A, Singh RP, Rab S, Suman R. Upgrading the manufacturing sector via applications of Industrial Internet of Things (IIoT). *Sensors International*. 2021 Jan 1;2:100129.

113. Haq MI, Raina A, Ghazali MJ, **Javaid M**, Haleem A. Potential of 3D Printing Technologies in Developing Applications of Polymeric Nanocomposites. In *Tribology of Polymer and Polymer Composites for Industry 4.0 2021* (pp. 193-210). Springer, Singapore.
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116. Haleem A, **Javaid M**, Singh RP, Suman R. Applications of Artificial Intelligence (AI) for cardiology during COVID-19 pandemic. *Sustainable Operations and Computers*. 2021; 2:71-8.
117. Rizvi AT, Haleem A, Bahl S, **Javaid M**. Artificial Intelligence (AI) and Its Applications in Indian Manufacturing: A Review. *Current Advances in Mechanical Engineering*. 2021:825.
118. Fatma N, Haleem A, Bahl S, **Javaid M**. Prospects of Jewelry Designing and Production by Additive Manufacturing. *Current Advances in Mechanical Engineering*. 2021:869.
119. Suman R, **Javaid M**, Choudhary SK, Haleem A, Singh RP, Nandan D, Ali S, Rab S. Impact of COVID-19 Pandemic on Particulate Matter (PM) concentration and harmful gaseous components on Indian metros. *Sustainable Operations and Computers*. 2021 Jan 1;2:1-1.
120. Haleem A, Gupta P, Bahl S, **Javaid M**, Kumar L. 3D scanning of a carburetor body using COMET 3D scanner supported by COLIN 3D software: Issues and solutions. *Materials Today: Proceedings*. 2021 Jan 1;39:331-7.
121. Haleem A, **Javaid M**. Industry 4.0 and its applications in dentistry. *Indian Journal of Dental Research*. 2020 Sep 1;31(5):824.
122. Softa A, Bahl S, Bagha AK, Sehgal S, Haleem A, **Javaid M**. Tissue Engineering and its Significance in Healthcare during COVID-19 Pandemic: Potential Applications and Perspectives. *Journal of Industrial Integration and Management*. 2021 Jan 27.
123. Ammar M, Haleem A, **Javaid M**, Walia R, Bahl S. Improving material quality management and manufacturing organizations system through Industry 4.0 technologies. *Materials Today: Proceedings*. 2021; <https://doi.org/10.1016/j.matpr.2021.01.585>
124. Singh RP, Haleem A, **Javaid M**, Kataria R, Singhal S. Cloud computing in solving problems of COVID-19 pandemic. *Journal of Industrial Integration and Management*. 2021 Jan 25.

125. Azeem M, Haleem A, **Javaid M**. Symbiotic relationship between machine learning and Industry 4.0: A review. *Journal of Industrial Integration and Management*. 2021 Feb 8.
126. Ashima R, Haleem A, Bahl S, **Javaid M**, Mahla SK, Singh S. Automation and manufacturing of smart materials in Additive Manufacturing technologies using Internet of Things towards the adoption of Industry 4.0. *Materials Today: Proceedings*. 2021; <https://doi.org/10.1016/j.matpr.2021.01.583>
127. Khan S, Haleem A, Deshmukh SG, **Javaid M**. Exploring the impact of COVID-19 pandemic on medical Supply Chain Disruption. *Journal of Industrial Integration and Management*. 2021 Feb 19.
128. Gupta N, Bahl S, Bagha AK, Vaid S, **Javaid M**, Haleem A. Nanomedicine Technology and COVID-19 Outbreak: Applications and Challenges. *Journal of Industrial Integration and Management*. 2021 Feb 3.
129. Sajid S, Haleem A, Bahl S, **Javaid M**, Goyal T, Mittal M. Data science applications for predictive maintenance and materials science in context to Industry 4.0. *Materials Today: Proceedings*. 2021 Feb 19.
130. Fatima S, Haleem A, Bahl S, **Javaid M**, Mahla SK, Singh S. Exploring the significant applications of Internet of Things (IoT) with 3D printing using advanced materials in medical field. *Materials Today: Proceedings*. 2021 Feb 18.
131. Bahl S, Bagha AK, Rab S, **Javaid M**, Haleem A, Singh RP. Advancements in Biosensor technologies for medical field and COVID-19 pandemic. *Journal of Industrial Integration and Management*. 2021 Jan 27.
132. **Javaid M**, Haleem A, Khan S, Luthra S. Different Flexibilities of 3D Scanners and Their Impact on Distinctive Applications: An Analysis. *International Journal of Business Analytics (IJBAN)*. 2020; 7(1):37-53.
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## Book Chapters

- ❖ **Javaid M**, Haleem A. 3D Scanning Technologies. In "An update on medical 3D printing" book. 2019. (Publisher: Salubris), ISBN Number: 978-81-940274-4-7.
- ❖ **Javaid M**, Haleem A. 4D and 5D Printing. In "An update on medical 3D printing" book. 2019. (Publisher: Salubris), ISBN Number: 978-81-940274-4-7.
- ❖ Haleem A, **Javaid M**. What is 3D Printing?. In "An update on medical 3D printing" book. 2019. (Publisher: Salubris), ISBN Number: 978-81-940274-4-7.
- ❖ **Javaid M**, Haleem A. 3D Printing in Dentistry and Maxillofacial Surgery. In "An update on medical 3D printing" book. 2019. (Publisher: Salubris), ISBN Number: 978-81-940274-4-7.
- ❖ Haleem A, **Javaid M**. Types of Additive Manufacturing Technology. In "An update on medical 3D printing" book. 2019. (Publisher: Salubris), ISBN Number: 978-81-940274-4-7.
- ❖ Haleem A, **Javaid M**. 3D Printing in Cardiology. In "An update on medical 3D printing" book. 2019. (Publisher: Salubris), ISBN Number: 978-81-940274-4-7.
- ❖ **Javaid M**, Khan IH, Vaish A, Vaishya R. The Role of Artificial Intelligence in Healthcare During Coronavirus Disease (COVID-19) Pandemic. 2021. *Comprehensive book on COVID-19* (Publisher: Salubris), ISBN Number: 978-81-951106-0-5
- ❖ **Javaid M**, Babu S, Rab S, Vaishya R, Haleem A. Tribological Review of Medical Implants Manufactured by Additive Manufacturing. 2021. *Tribology and Sustainability book* (Publisher: CRC Press), ISBN Number: 9780367551469
- ❖ **Javaid, M.**, Haleem, A., & Suman, R. Major advancements of industry 4.0 to overcome challenges in manufacturing during the COVID-19 pandemic. *Cyber-Physical Systems: Solutions to Pandemic Challenges book* (Publisher: CRC Press), ISBN Number: 9781003186380
- ❖ **Javaid, M.**, Haleem, A., Rab, S., & Suman, R. Robotics Applications for Public Health and Safety During the COVID-19 Pandemic. *Robotics for Pandemics book* (Publisher: CRC Press), ISBN Number: 9781003195061
- ❖ **Javaid, M.**, Haleem, A., Singh, R. P., & Suman, R. Virtual Reality Applications in the Manufacturing Field. *Modern Manufacturing Systems*. (Publisher: Academic Press), ISBN Number: 9781774910443
- ❖ **Javaid, M.**, Khan, I. H., Suman, R., & Khan, S. Role of virtual reality for healthcare education. *Extended Reality for Healthcare Systems* (Publisher: Academic Press), ISBN Number: 9780323983815

## Best Paper Award

- ❖ Best research paper in "2nd International Conference on Aspects of Materials Science and Engineering" ICAMSE2021 organized by Panjab University Chandigarh on 5th – 6th March, 2021 held at PU Chandigarh, India in 2021.

- ❖ Best research paper in International Conference on Advanced Materials & Modern Manufacturing (ICAMMM2020) held at Adhi college of Engineering and Technology, Tamil Nadu India in 2020.

### **Presented and published paper in International Conference**

- ❖ **Presented and published paper** on “Increasing productivity and number of benefits by applying Just in Time (JIT) in manufacturing industries” 3rd International Conference on Production and Industrial Engineering CPIE-2013(Page no 69-72). Held at NIT jalandhar on March 2013.
- ❖ **Presented and published paper** on “Decreasing cost of product and Air pollution by Using Green Supply Chain Management in manufacturing industries: A Case Study” 3rd International Conference on Production and Industrial Engineering CPIE-2013(Page no 1174-1180). Held at NIT jalandhar on March 2013.
- ❖ **Presented and Published paper** “Using Additive Manufacturing for Improving Building Services” International conference and Exhibition on building utilities. ISBN: 978-163535676-2 held at Mechanical Engg Deptt, JMI on 1- 3 December 2016.
- ❖ **Presented and Published paper** “Dimensional Errors During Scanning of Product Using 3D Scanner” Ist International conference on Future learning aspects of Mechanical engineering. 2018 held at AMITY UNIVERSITY, Uttar Pradesh from 3th – 5th October 2018

### **Publications in International Conference**

- ❖ **Published paper** on “The Bullwhip Effect in Supply Chains: Causes and Remedies” International Conference on Applied Physical, Chemical, Mathematical Science and Emerging Energy Technology for Sustainable Development” ISBN: 978-93-83083-71-8. held at JNU, NEW DELHI on 19<sup>th</sup>- 20<sup>th</sup> April 2014.
- ❖ **Published paper** on “Enablers of Knowledge Sharing in organization: A Brief Review” International Multi Track Conference on Science, Engineering and Technical Innovation” ISBN : 978-81-929077-1-0 held at CTIEMT Jalandhar (Punjab) on 3<sup>rd</sup>-4<sup>th</sup> june 2014.
- ❖ **Published paper** on “Emergence of India as a Lead Market for frugal innovation and indentify the major driving factors towards frugal innovation” International Multi Track Conference on Science, Engineering and Technical Innovation. ISBN: 978-81-929077-1-0 held at CTIEMT Jalandhar (Punjab) on 3<sup>rd</sup>-4<sup>th</sup> june 2014.

### **Presented and published paper in National Conference**

- ❖ **Presented and published paper** on “Improving the Quality of product by using Supply chain management” 2<sup>nd</sup> National Conference on Global Innovation in Technology & Management (GITM-2013) held on April, 2013 at Dev Bhoomi Group of Institutions, Saharanpur (UP), India ISBN-978-81-923750-1-4.

- ❖ **Presented and published paper** on “Product design and development using combination of Steinbichler Comet 3D Scanner and Project 3D printer” National Conference on Innovative Trends in mechanical engineering held on 3-4 march 2017 at SMVDU Katra Jammu, India ISBN- 2349-3852.

#### **Publication in National Conference**

- ❖ **Published paper** on “Barriers and Key Challenges in Implementing Social Corporate Responsibility in Indian SMEs” National Conference on Recent Advances in Mechanical & Civil Engineering Ajay Kumar Garg Engineering College, Ghaziabad ISSN 0975-9514 in March 2014”
- ❖ **Published paper** Study of Knowledge-sharing and Identification of Individual Knowledge Sharing Barriers “National Conference on Recent Advances in Mechanical & Civil Engineering Ajay Kumar Garg Engineering College, Ghaziabad ISSN 0975-9514 in March 2014”

#### **Invited lecture/Session Chair/FDP Conducted**

- Co-Coordinator in Online Faculty Development Program on Additive manufacturing for Sustainability and Industry 4.0 held at Department of Mechanical Engineering, Jamia Millia Islamia, New Delhi in Nov 2024.
- Invited lecture in National Seminar on Essentials of Product Development in SMVDU Katra in May 2023.
- Technical Session as Session Chair in 2nd International Conference on Aspects of Materials Science and Engineering, ICAMSE2021 at Punjab University, Chandigarh in March 2021.
- Session Chaired in National Conference on Robotics and Mechatronics. Held at Department of Mechanical Engineering, Jamia Millia Islamia, New Delhi in March 2020.
- Co-Coordinator in ATAL academy Sponsored one week FDP Held at Department of Mechanical Engineering, Jamia Millia Islamia, New Delhi in Nov 2019.
- Speaker in ATAL academy Sponsored one week FDP Held at Department of Mechanical Engineering, Jamia Millia Islamia, New Delhi in Nov 2019.
- Invited lecture in one day workshop of 3D printing held at SMVDU, Katra, J & K in Sept. 2019.

#### **Workshop/Faculty development course Attended**

- Participated and successfully completed the 5-day Online FDP on the theme “Inculcating Universal Human Values in Technical Education” organized by All India Council for Technical Education (AICTE) from 9th September to 13th September 2024.

- Attended NEP 2020 Orientation & Sensitization Programme under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) Organized by MMTTC, Jamia Millia Islamia, New Delhi from 04th December 2023 to 13th December 2023.
- Attended 5 Days Skill Development Programme on Fundamental of 3D Printing and New Product Development organized by SMVDU, Katra from 05 Feb 2024 to 09 Feb 2024
- Participated in Workshop on "Technological Advancements in Digital Healthcare" organized by Department of Electrical Engineering, Jamia Millia Islamia, New Delhi. From 01 Feb 2023 to 07 Feb 2023.
- Participated in One Week Online Short-Term Course on "Reliability, Maintainability and Quality Issues in Process Industries" held on 04/08/2020 to 08/08/2020, Organized at Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, Punjab
- Participated in One Week Online Short-Term Course on "Hybrid Manufacturing Processes: Opportunities and Challenges" held on 06/07/2020 to 10/07/2020 Organized at Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, Punjab
- Participated in One Week Online Short-Term Course on "Supply Chain Management: Challenges and Strategies" on 13/07/2020 to 17/07/2020 Organized at Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, Punjab
- Participated in One Week Online Short-Term Course on "Tribology for Sustainable Development" on 20/07/2020 to 24/07/2020 held at SMVDU Katra Jammu.
- Participated in Short term Course on Engineering Optimization (EO-2019) held on 21st-25th Oct 2019 at SMVDU Katra Jammu.
- Participated in a One-month Induction training programme from 20/02/2018 to 23/03/2018 held at UGC-HRDC, Jamia Millia Islamia, New Delhi.
- Experienced in Refresher course in Research and teaching methodology from 20 June to 10 July 2017 held at UGC HRDC Guru Nanak Dev University, Amritsar.
- Participated in AICTE recognised Short term course on Teaching Practice in Engineering Drawing conducted by mechanical engineering department from 24-28 April 2017 at NITTTR Chandigarh.
- Participated in UGC sponsored week workshop on Information Technology from 18th- 24th Nov 2016. Organised by UGC-HRDC. University of Jammu (Jammu and Kashmir)
- Participated in TEQIP II sponsored one-week Faculty development program on Perspectives of Machining Present and Future held at NIT Jalandhar (Punjab) from 11th to 15th July 2016.

- Participated in AICTE organised short term course on Recent Trends in Automobile Engineering through ICT conducted by Mechanical Engineering Department, Shri Mata Vaishno Devi University Katra (Jammu and Kashmir) from 29th Feb 2016 to 4th March 2016.
- Participated in Short term course under QIP on Make in India: Innovative Product Design held at IIT Delhi from 14th -18th Dec 2015.
- Participated in UGC HRDC Sponsored Orientation Course Attended: Participated in the UGC Sponsored 114<sup>th</sup> four-week orientation programme from 3<sup>rd</sup> November to 3<sup>rd</sup> December 2015. Organised by UGC-HRDC., Jamia Millia Islamia, New Delhi.
- Participated in 2-Week Faculty development program on Mechatronics & Robotics in Manufacturing Industries, from 27th Feb to 12th March 2015 held at Department of Mechanical Engineering, Jamia Millia Islamia, New Delhi.

### **Research/Dissertation/Project Guidance**

- PhD ongoing 3
- M Tech Dissertation Completed 5, Ongoing 1
- B. Tech Project Completed 7, Ongoing 1

### **Other Responsibilities**

- IQAC Nodal Officer of the Department
- Training and Placement Coordinator of the Department
- B. Tech and M. Tech Admission Verification Officer
- Attendance in charge of the Department
- Sports Coordinator
- Organise various activities during the cultural events
- Member of student grievance redressal committee of the university
- NBA Criterion 5 In charge of the Department
- NAAC Criterion 2 In charge of the Department

### **Achievements**

- Qualified GATE 2014 in Mechanical Engineering
- Qualified GATE 2010 in Mechanical Engineering

### **Extra-curricular activities**

- Organizer in International Techno-Cultural Fest (SURGE-11) of NIT Kurukshetra April 2011.
- Got 2<sup>nd</sup> position for 'Play Competition' in International Techno-Cultural Fest (SURGE-11) of NIT Kurukshetra April 2011.

## **Professional Activities**

- Faculty Advisor of SAE
- Life Member, Indian Institution of Industrial Engineering

## **Area of Interest**

- Additive Manufacturing
- 3D Scanning
- Product Design
- 4D Printing
- Industry 4.0