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|  **MANAV RACHNA UNIVERSITY, FARIDABAD****1.jpg** Sector 43, Aravalli Hills, Manav Rachna Campus Rd, Faridabad, Haryana 121004 |
| **Prof. (Dr.) Joginder Singh****Designation:** Professor, HoD-Mechanical Engineering**Qualifications:** PhD (Carbon Fiber Composites) **Email****:** joginder@mru.edu.in, hodme@mru.edu.in**Experience:** 20 YearsGoogle Scholar Profile | BEST-QUALITY.jpg |
| **Research Interest:**  |
| Carbon Fiber Reinforced Composites, Product Design, Product Analysis, Manufacturing, Development, 3D Printing, Tool Design, Tool Analysis, Robotics. |
| **Membership:**  |
| American Society of Mechanical Engineers (ASME)**ASME.org (@ASMEdotorg) / Twitter** |
| **Journal Publication Details:** |
| 1) Joginder Singh and M.R.Tyagi, “**Effect of Angular Orientation of Continuous Fibers on the Extensional Properties of Carbon Fiber Composites**”, Lecture Notes in Mechanical Engineering, ISSN No.: 21954356, 21954364, Springer Nature , https://doi.org/10.1007/978-981-15-5519-0\_1, Sep 2020. 2) Joginder Singh and M.R.Tyagi, “**Evaluation of Tensile Properties of Hot Rolled Carbon Steel Using Finite Element Analysis**”, Lecture Notes in Mechanical Engineering, ISSN No.: 21954356, 21954364, Springer Nature, https://doi.org/10.1007/978-981-13-6469-3\_35, April 2019. 3) Joginder Singh and M.R.Tyagi, “**Comparative Study of Sheet Metal and Carbon Fibre Reinforced Composites Ceiling Fan Blade**”, Lecture Notes in Mechanical Engineering, ISSN No.: 21954356, 21954364, Springer Nature, https://doi.org/10.1007/978-981-13-6577-5\_39, June 2019. 4) Joginder Singh and M.R.Tyagi, “**Analysis of Stresses and Deflections in Spur Gear**”, International Journal of Mechanical Engineering and Technology, ISSN No.: 09766340, 09766359, Volume 8, Issue 4, pp. 461–473, Article ID: IJMET\_08\_04\_050, April 2017.  |
| **Conference Publications:** |
| 1) Joginder Singh and M.R.Tyagi, **“Variation of Shear Properties in Carbon Fiber Composites as Extensional Forces Applied with Different Fiber Orientation”**, International Conference on Mechanical and Energy Technologies (ICMET), 2019, November, Galgotia College of Engineering & Technology, Greater Noida, UP, Smart Innovation, Systems and Technologies, 427-438, https://doi.org/10.1007/978-981-15-2647-3\_38. 2) Joginder Singh and M.R.Tyagi, **“Design, Analysis and Manufacturing of Front Sprocket of a Bicycle using Carbon Fiber Reinforced Plastics”**, New Frontiers in Engineering, Science & Technology (NFEST), 2019, February, , International Conference, NIT, Kurukshetra, IOP Conf. Series: Journal of Physics: Conf. Series 1240 (2019) 012071, IOP Publishing, doi:10.1088/1742-6596/1240/1/012071. 3) Joginder Singh and M.R.Tyagi, **“Virtual Analysis And Manufacturing of Flat Specimen of Carbon Fiber Composite For Tensile Strength”**, National Conference on Trends and Advances in Mechanical Engineering (TAME), 2019, April, J.C.Bose University of Science and Technology, YMCA, Faridabad, Haryana. (Best Paper Award under the Theme of Production & Manufacturing) 4) Joginder Singh and M.R.Tyagi, **“Design and Manufacturing of a holding fixture to test the tensile strength of a flat specimen”**, International Conference on Recent Trends and Innovations in Mechanical Engineering (ICRTIME), 2018, July, KIET Group of Institutions, Ghaziabad, UP, International Journal of Applied Engineering Research ISSN 0973-4562 Volume 13, Number 6 (2018) pp. 1-6, Research India Publications. |
| **Administrative Responsibilities:** |
| 1. Head of Department (Mechanical Engineering), MRU, Faridabad
2. Member of Academic Council
3. Chairman, Board of Studies (BOS), Mechanical Engineering
4. Chairman, Departmental Research Committee (DRC), Mechanical Engineering
 |
| **CAD/CAE Certification:** |
| 1. Certificate of Achievement for completing the course on **“SimSolid Advanced Examination”** from Altair University.
2. Certificate of Achievement for completing the course on **“HyperMesh Intermediate Examination”** from Altair University.
3. Certificate of Achievement for completing the course on **“CATIA V5R18 Product Design Specialist”** from Dassault System, France.
 |
| **MOOC Courses:** |
| 1. Certificate awarded for successfully completing the course on **“Product Design and Development”** from NPTEL.
2. Certificate awarded for successfully completing the course on **“Processing of Polymers and Polymer Composites”** from NPTEL.
3. Certificate awarded for successfully completing the course on **“Introduction to Composites”** from NPTEL.
4. Certificate awarded for successfully completing the course on **“Advanced Composites”** from NPTEL.
5. Certificate awarded for successfully completing the course on **“A Hands on Introduction to Engineering Simulation”** from Edx and Cornell University.
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| **Workshop Organized:** |
| 1. Certificate for successfully organizing the technical workshop on **“Mould Manufacturing By Composite Material”** in Mechanical Engineering Department at Manav Rachna University, Faridabad.
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| **Workshop Attended:** |
| 1. Certificate for successfully completing the technical workshop on **“Scanning Metrological Inspection and Reverse Engineering”** from G-Steam India Private Limited and K.R.Mangalam University, Gurgaon.
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| **Faculty Development Program (FDP):** |
| 1. Certificate of Participation for completing the 5 Days online FDP on the theme **“Inculcating Universal Human Values in Technical Education”** organized by AICTE.
2. Certificate of Participation for completing the 5 Days online FDP on the theme **“Product Design and Drafting using CATIA V5”** organized by ICT Academy.
3. Certificate of Participation for completing the 3 Days FDP on the theme **“Faculty Development Program for Student Induction (FDP-SI)”** organized by AICTE at YMCA, Faridabad.
4. Certificate of Participation in a awareness program on the theme **“Prime Minister’s Scheme Zero Defect and Zero Effect Manufacturing”** organized by MSME-DI, Delhi at Manav Rachna University, Faridabad.
5. Certificate of Participation for completing the 5 Days FDP (Quality Improvement Program – QIP) on the theme **“Make in India: Innovative Product Design”** organized by IIT, Delhi.
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