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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](mailto:joginder@mru.edu.in), hodme@mru.edu.in  **Experience:** 20 Years  Google 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. | |
| **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. | |
| **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. | |
| **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. | |