



## MANAV RACHNA UNIVERSITY, FARIDABAD

Sector 43, Aravalli Hills, Manav Rachna Campus Rd, Faridabad, Haryana 121004

### Mr. Joginder Singh

**Designation:** Associate Professor

**Qualifications :** M.Tech (Mechanical Engineering)

**Email :** joginder@mru.edu.in

**Experience:** 19 Years

[Google Scholar Profile](#)



**Research Interest:** Carbon Fiber Reinforced Composites, Product Design, Analysis and Manufacturing.

#### + Journal Publication Details:

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](https://doi.org/10.1007/978-981-15-5519-0_1), Sep 2020. (Scopus)

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](https://doi.org/10.1007/978-981-13-6469-3_35), April 2019. (Scopus)

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](https://doi.org/10.1007/978-981-13-6577-5_39), June 2019. (Scopus)

#### + Conference Publications:

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](https://doi.org/10.1007/978-981-15-2647-3_38).

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.

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. <http://www.ripublication.com>.

#### + Administrative Responsibilities:

PhD Coordinate (ME Department) in MRU from 07-April-2021 to Till date.

Member of Academic Council in MRU from 05-April-2021 to Till Date.

Associate Head in MRU from March-2018 to Till date.

**+ Event Organized (Conference/Seminar/FDP/Workshops)**

Conducted Workshop on **"CATIA Software"** on 21-Jan-2017, at Manav Rachna University.

Conducted Workshop on **"Mould Manufacturing by Composite Material"** on 25-Sep-2017, at Manav Rachna University.

Conducted Workshop on **"Altair Software"** on 02 Nov 2019, at Manav Rachna University.

**+ Awards**

**NPTEL Online Certification, Topper 5%, Elite and Gold**

**"Processing of Polymers and Polymer Composites"**

IIT Roorkee, Jan-Mar 2021

Certificate of Achievement

**"HyperMesh 2017 Intermediate Examination"**

Altair University, 05-May-2020

Best Paper Award under the Theme of Production & Manufacturing

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.

**NPTEL Online Certification, Topper 2%, Elite and Silver**

**"Introduction To Composites"**

IIT Kanpur, Jan-Apr 2019

NPTEL Online Certification

**"Advanced Composites"**

IIT Kanpur, July-Oct 2018

Certificate of Achievement

**"A Hands on Introduction to Engineering Simulations"**

EdX, Cornell University, 09-Oct-2017