

CURRICULUM VITAE

Dr. MOHIT MITTAL (ORCID: 0000-0002-7928-7635)

Assistant Professor

Subject of Mechanical Engineering, SOET

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Research Index		
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Objective

To be a part of an organization that provides enough opportunity to grow professionally and freedom to use technical and managerial skills for the welfare of the organization. The institute constantly endeavours to keep in touch with the problems of people, and undertake need based research. The institute tries to serve as a reservoir of knowledge in engineering education and ensure proper integration of external and indigenous knowledge suitable to Indian context.

Educational Qualifications

PhD Department of Mechanical Engineering, Delhi Technological University, Delhi-110042

Thesis: Development and characterization of a hybrid biocomposite material for automobile application

M.Tech Department of Manufacturing & Automation, Maharishi Dayanand University, Rohtak (Haryana), 2015, 66 %

Thesis: Optimization of corrugated box production process using Taguchi method

<i>B.Tech</i>	Department of Mechanical Engineering, Kurukshetra University, Kurukshetra (Haryana), 2013, 73 % <i>Project:</i> Development of a forced draught cooling tower
<i>Higher Secondary</i>	Baptist Senior Secondary School (CBSE Board), Bhiwani, 2009, 78 %, School Rank- 3
<i>Secondary</i>	M.L High School (HBSE Board), Bhiwani, 2007, 78.3 %, School Rank-9
<i>GATE</i>	Gate-2013 qualified, Gate Score-385

Fields of Research Interest

Processing of Polymer and Polymer Based Composites

Biocomposites: Development and characterization of natural fiber reinforced biocomposite materials, Work system design, Design of experiments, Statistical Analysis, Natural fibers, and hybrid composites, process and product optimization

Courses Taught

Material Science, Fluid Mechanics & Machines, Kinematics of Machine, Thermodynamics, Measurement & Instrumentation, Mechanical Vibration, Engineering Graphics & Design, Workshop Technology

Professional Experience

Lecturer Department of Mechanical Engineering, ITS College of Engineering, Faridabad, Haryana (Jan 2014 – Jan 2015)

Assistant Professor Department of Mechanical Engineering, BSA Institute of Technology & Management, Faridabad, Haryana (July 2015 – April 2018)

Assistant Professor Subject of Mechanical Engineering, Central University of Haryana, Mahendergarh, Haryana (August 2018 – Till Now)

Research Experience

Research in Delhi Technological University, Delhi: Worked as a Doctoral Research Fellow in the Department of Mechanical Engineering

Courses Attended

NPTEL: Processing of Polymer and Polymer Composites, IIT Roorkee (Jul-Sep 2017), 83 %

NPTEL: Material Science and Engineering, IIT Roorkee (Feb-Mar 2018), 66 %

NPTEL: Material Characterization, IIT Madras (Jan-Apr 2018), 56%

NPTEL: Fundamental of Surface Engineering, IIT Roorkee (July-Nov 2019), 70%
NPTEL: Work System Design, IIT Roorkee (July-Nov 2019), 90% (Gold Medal)
NPTEL: Engineering Drawing & Computer Graphics, IIT Roorkee (July-Nov 2019), 75%
(Silver Medal)

Reviewer of Journals

Journal of Renewable Materials
Journal of Composite Materials (SAGE)

List of Publications

Journal Papers

Mittal M and Chaudhary R (2019) Experimental investigation on the mechanical properties and water absorption behavior of randomly oriented short pineapple/coir fiber reinforced hybrid epoxy composites *Materials Research Express* 6(1), <http://doi.org/10.1088/2053-1591/aae944>. (Indexed by: **Scopus and Web of Science**).

Mittal M and Chaudhary R (2018) Effect of fiber content on thermal behavior and viscoelastic properties of PALF/Epoxy and COIR/Epoxy composites *Materials Research Express* 5, <http://doi.org/10.1088/2053-1591/aae274>. (Indexed by: **Scopus and Web of Science**).

Mittal M and Chaudhary R (2019) Biodegradability and mechanical properties of Pineapple leaf/Coir fiber reinforced hybrid epoxy composites, *Materials Research Express* 6(4), <http://doi.org/10.1088/2053-1591/aaf8d6> (Indexed by: **Scopus and Web of Science**).

Mittal M and Chaudhary R (2020) Design optimization and analysis of car bumper with implementation of hybrid biocomposite material *IOP Conference Series: Materials Science and Engineering* (**Scopus Indexed**).

Mittal M, Phutela K, Chaudhary R, Airon M, and Singh R.C. (2020) Modelling and performance optimization of starch-based biocomposite films using response surface methodology *Journal of Applied Research and Technology* (**Accepted, Scopus Indexed**).

Mittal M and Chaudhary R (2018) Experimental study on the water absorption and surface characteristics of alkali treated pineapple leaf fibre and coconut husk fibre *International Journal of Applied Engineering Research* 13, 12237-43 (**UGC Approved**).

Mittal M and Chaudhary R (2018) Development of PALF/Glass and COIR/Glass fiber reinforced hybrid epoxy composites *Journal of Materials Science and Surface Engineering* 6(5), 851-861, <http://doi.org/10.jmsse/2348-8956/6-5.1>.

Mittal M and Chaudhary R (2019) Experimental study on thermal behavior of untreated and alkali-treated pineapple leaf fiber and coconut husk fiber *International Journal of*

Applied Science and Engineering 76(1), 01-16 <http://doi.org/10.30954/2322-0465.1.2019.1> (UGC Approved).

Mittal M and Chaudhary R (2018) Effect of alkali treatment on the water absorption of pineapple leaf fiber *International Journal of Technical Innovation in Modern Engineering and Science* 12(4), 300-305, (UGC Approved).

Mittal M and Chaudhary R (2019) Effect of layering pattern on flammability and water absorption behavior of Pineapple leaf/Coir fiber-reinforced hybrid epoxy composites *Journal on Material Science* 7(1), 44-54 (UGC Approved).

Mittal M and Chaudhary R (2017) Effect of Glass Fiber on the Mechanical Properties of Hybrid Biocomposites: A Review *International Journal of Research in Applied Science and Engineering Technology* 5, 937-947, <http://doi.org/10.22214/ijraset.2017.10134> (UGC Approved).

Mittal M and Chaudhary R (2017) Effective Approach to Overcome the Problem of Thermal Degradability in NFRC is Flame Retardants: A Review *International Journal of Research* 4, 544-556 (UGC Approved).

Mittal M and Chaudhary R (2017) Factors affecting the Performance of Biocomposites, *International Journal of Research* 4, 749-758 (UGC Approved).

Mittal M and Chaudhary R (2017) Effect of Fiber Surface Treatment on Mechanical Properties of Biocomposites: A Review *International Journal of Research in Applied Science and Engineering Technology* 5, 1992-2005, <http://doi.org/10.22214/ijraset.2017.10292> (UGC Approved).

Mittal M, Kumar M., and Sharma R (2016) An Approach towards Machining of GFRP using Alumina Based Cutting Tool *International Journal of Material Science and Engineering* 10, 185-191, <http://doi.org/10.17706/ijmse.2016.4.4.185-191> (UGC Approved).

Mittal M (2015) Application of Taguchi Method for Optimization of Process Parameters in Improving the Productivity of Corrugation Operation *International Journal of Research* 2, 537-545, <http://doi.org/10.13140/RG.2.2.27982.15688> (UGC Approved).

Mittal M and Chaudhary R Effect of layering pattern and fiber hybridization on viscoelastic properties of randomly oriented short pineapple and coir fiber-reinforced epoxy composites *Ind. J. Eng. Mat. Sci.* (Under peer –review) (Indexed by: **Scopus and Web of Science**).

Mittal M and Chaudhary R (2020) Effect of fiber length and content on mechanical and water absorption behavior of coir fiber-epoxy composite *Advanced Engineering and Research Application* (Scopus indexed book).

Mittal M and Chaudhary R (2020) Experimental study on the water absorption and surface characteristics of alkali-treated pineapple leaf fiber and coconut husk fiber *Advanced Engineering and Research Application (Scopus indexed book)*.

Conference Papers

Mittal M and Chaudhary, R (2018) Effect of alkaline treatment on the thermal stability of pineapple leaf fibers *International Conference on Advanced Production and Industrial Engineering* DTU, Delhi.

Mittal M and Chaudhary R (2016) Optimization of Interfacial adhesion between natural fiber and polymer resin: A Review *International Conference on Advanced Production and Industrial Engineering* DTU, Delhi.

Kumar M., **Mittal M.**, Sharma R (2015) To identify and eliminate waste by value stream mapping *National Conference on Advances in Mechanical Engineering* BSAITM, Faridabad.

Mittal M., Kumar M., Sharma R (2015) An approach towards machining of GFRP using alumina based cutting tool *National Conference on Advances in Mechanical Engineering* BSAITM, Faridabad.

Mittal M and Chaudhary R (2020) Influence of walnut (*Juglans. L*) shell particles addition on the mechanical properties of epoxy composites *International Conference on Advances in Material Science and Mechanical Engineering* N.B.K.R Institute of Science & Technology, Andhra Pradesh (India).

Mittal M and Chaudhary R (2020) Effect of fiber length and content on the pineapple leaf fiber reinforced-epoxy composites *International Conference on Advances in Material Science and Mechanical Engineering* N.B.K.R Institute of Science & Technology, Andhra Pradesh (India).

Workshop/FDP Attended

“Workshop on Polymer Analysis and Applications: Current Scenario”, School of Polymer Science & Chemical Technology, Delhi Technological University, Delhi, 4th-8th June, 2018.

“Materials and Processes for Advanced Engineering Applications (MPAEA-2017)”, School of Materials Science & Engineering, NIT Kurukshetra, 11th-16th Dec, 2017.

“Workshop on Patent Filing Procedure”, Rajiv Gandhi National Institute of Intellectual Property Management (RGNIIPM), Nagpur, 28th May, 2018.

“National Programme on Technology Enhanced Learning (NPTEL-2017), Jaipur Engineering College, 25th Nov, 2017.

“Faculty Development Program on Research and Development in Materials Behavior, Processing and Characterization Techniques”, GLA University, 9th-14th June, 2020.

Awards

Awarded with the “Commendable Research Award” in recognition for the research during the year 2018 at Delhi Technological University, Delhi.

Administrative Responsibilities

Member, Organizing Committee, National Conference on Advances in Mechanical Engineering, BSAITM 2016.

Co-Coordinator, Organizing Committee, Department level Examination.

Member, B.tech Training Seminar and Report Evaluation Committee

Training Details

Thermal Power Plant, Bhiwani (Birla Group)

CATIA, CADD MECH, Chandigarh

Students Supervised

Undergraduate (B.Tech): Supervised 01 Project

References

Prof. Rajiv Chaudhary

Department of Production, Industrial and Automobile Engineering, Delhi Technological University, Delhi, Contact Detail: +91-9868094086, rch_dce@rediffmail.com

Prof. R.C. Singh

Department of Production, Industrial and Automobile Engineering, Delhi Technological University, Delhi, Contact Detail: +91-9868094031, rcsingh@dce.ac.in

Declaration: I certify that all the above mentioned information is true to best of my knowledge.

Date & Place:

Signature