ATUL JAIN

Assistant Professor

Department of Mechanical Engineering Indian Institute of Technology Kharagpur

Kharagpur, India -721301 Phone: +91 3222 282906

Email: atuljain@mech.iitkgp.ernet.in / atulatj@gmail.com Webpage: https://sites.google.com/view/atuljain/home

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1. Professional Positions

Academic Positions			
June 2017-current	Assistant Professor, Indian Institute of Technology Kharagpur		
	Department of Mechanical Engineering		
July 2018 – Dec 2018	<u>Lecturer</u> , University of Edinburgh (on Extra Ordinary Leave from IIT Kharagpur)		
	 School of Engineering/Institute of Materials and Processes 		
Oct 2016- June 2017	Visiting Faculty, Indian Institute of Technology Kharagpur		
	Department of Mechanical Engineering		
June 2015- Oct 2016	Post-Doctoral Research Associate, University of Southern California		
	 Mork Family Department of Chemical Engineering and Materials Science 		

2. Education

June 2011- May 2015	PhD in Materials Engineering, KULeuven Belgium	
July 2010- June 2011	Pre-doctoral training, Materials Engineering, KULeuven Belgium	
June 2007- June 2009	Master of Technology, in Aerospace Engineering (sp. Aerostructures), Indian	
	Institute of Technology, Kanpur	
Aug 2003- May 2007	Bachelor of Engineering, in Mechanical Engineering, Indian Institute of	
	Engineering Science and Technology, Shibpur	

3. Competitive Research Funding

5. Gompetitive Research Funding				
April 2011- May 2015	Fatigue life prediction of random fiber composites using hybrid multiscale			
	modeling methods (Principal Investigator)			
	 Funding Agency: IWT, The Agency for Innovation by Science and 			
	Technology in Flanders, Belgium under the Baekeland Scheme			
Oct 2019- Sept 2022	Multiscale modelling and Microstructure characterization of 3D printed short fibre			
	composites (Principal Investigator)			

Institute scheme for innovative research and development
 March 2021- April 2024 <u>Development of high-performance materials through tailoring of 3D printed microstructure</u> (Principal Investigator)

• Funding Agency: Science and Engineering Research Board

4. Awards and Honors

Oct 2019	Was awarded the <u>first prize in the DRDO Dare to Dream Innovation</u> contest 2019; received the prize from Honorable Defense Minister of India, Shri Rajnath Singh
May 2015	Awarded cash prize of 1% of the Baekeland project for successful and timely completion of all the goals of Baekeland fellowship by IWT Belgium

5. <u>Technology Transfer to Industry</u>

Nov 2015

<u>Master SN curve approach developed by me during my PhD has been</u> <u>implemented in industrial software LMS VirtualLab.Durability</u> part of Siemens Industry Software(SiSW) in software release in Nov'15

6. Publications

Theses: 3Book: 1

Book chapters: 2

Papers in Scopus listed journals: 19Papers in peer reviewed conferences: 20

7. Teaching and Mentorship

Courses Taught - IITKgp

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•	Mechanics	Spring 2017, 2018, Autumn 2019
•	Basic Engineering Mechanics	Autumn 2020
•	Manufacturing and characterization of polymer composites	Spring 2017
•	Mechanics of solids	Autumn 2017, 2019, 2020
•	Mechanics of solids Lab	Autumn 2017
•	Mechanics of composites	Spring 2018, 2019, 2020,2021
•	Mechanics over micro and nano scales (TEQIP course)	Autumn 2017
•	Seminar	Spring 2017

Courses Taught - University of Edinburgh

Advanced Composites Materials
 Engineering Design 1
 Autumn 2018
 Autumn 2018

Thesis supervision

PhD
 Master Thesis**/#
 Bachelor Thesis*
 4 ongoing
 16 + 8 ongoing
 11 + 3 ongoing

^{*} One student awarded the Best Bachelor Thesis Project Award at IIT Kharagpur in 2018

^{**} One student awarded the Best Master Thesis Award at IIT Kharagpur in 2018 # One student awarded the Best Master Thesis Award at University of Edinburgh in 2019