Curriculum Vitae

Sumeet Chakraborty
Ph.D. Research Scholar
Department of Civil Engineering
Indian Institute of technology (ISM) Dhanbad,
Email: sumeetchakraborty10@gmail.com
sumeet.17dr000591@cve.iitism.ac.in
Phone Number: +91 7544095538,
+91 9981320732

PERSONAL INFORMATION

Date and Place of birth: 10-Aug-1991, Bhopal, Madhya Pradesh

Nationality: Indian

Family Status: Single

Address: C/M/16, Ayodhya Extension,

Ayodhya ByPass Road,

Bhopal,

Madhya Pradesh,

462023, India

RESEARCH INTEREST:

Static and Dynamic instability of thin-walled structures, Multifunctional Composites, Smart Structures.

EDUCATIONS

Ph.D. (2017-2022) (*Thesis Submitted for review*)	Department of Civil Engineering, Indian Institute of Technology (ISM) Dhanbad, Jharkhand, India Research Topic: Nonlinear stability analysis of CNT reinforced curved panels subjected to thermomechanical loadings.
M.E. (2016)	Department of Civil and Environmental Engineering, National Institute of Technical Teachers Training and Research, Bhopal, Madhya Pradesh, India. Thesis Topic: Buckling behaviour of steel column having intermediate supports. **[CGPA: 8.17/10]**
B.E. (2013)	Department of Civil Engineering, Truba institute of engineering and information technology. **[First Class Honours – Percentage: 76.8/100]**

PROFESSIONAL EXPERIENCE

Oct, 2017- Dec, 2017: Junior Research Fellow (JRF), Department of Civil Engineering, IIT(ISM) Dhanbad (DST Funded).

Project Title: Dynamic Instability of Elastic Structural Engineering Elements under Deterministic Loading.

Project Number: DST(83)/2013-14/363/CE

Project Detail: Investigation of dynamic instability of the plate and shell panels subjected to axial compressive loading and thermal environment.

Dec, 2017- Present: Senior Research Fellow (SRF), Department of Civil Engineering, IIT(ISM) Dhanbad.

Nov, 2018 - Present: Research Fellow, Department of Civil Engineering, IIT(ISM) Dhanbad (SPARC Project, A GOI initiative)

Project Title: Nonlinear vibrations and instability analysis of composite structural elements through advanced shear deformation theory and homogenization based damage model.

Project Number: 574

Project Detail: Investigation of stability characteristics of composite materials (e.g. biological materials) considering higher order shear deformation theory and thickness stretching.

TEACHING EXPERIENCE

July, 2013 - April, 2014: Lecturer, NRI Institute of Research and Technology, Bhopal, Madhya Pradesh, India.

Oct, 2016 - June, 2017: Assistant Professor, Truba College of Science and Technology, Bhopal, Madhya Pradesh, India.

June, 2017 – Sept, 2017: Assistant Professor, Rajiv Gandhi Technical University, Bhopal, Madhya Pradesh, India **(Contract Basis)**.

Dec, 2017- Present: Graduate Technical Assistant, Department of Civil Engineering, IIT(ISM), Dhanbad.

LANGUAGES AND SKILLS

Native Languages:	Bengali and Hindi.
English:	Advanced (Reading, writing and oral)
Computer Languages:	Mathematica, Matlab, ABAQUS, ANSYS, AutoCad, and StaadPro.

HONORS AND AWARDS

2014: Scholarship for M.E studies from MHRD.

2017-Present: Scholarship for Ph.D. studies from MHRD.

Reviewer of "The institute of Engineers (India): Series A", Scopus rated journal of Springer.

PUBLICATIONS

Refereed papers in professional international journals

1. **Sumeet Chakraborty**, Tanish Dey and Rajesh Kumar, Stability and vibration analysis of the CNT-Reinforced functionally graded laminated composite cylindrical shell panels using semi-analytical approach, **Composite Part B: Engineering**, 168, 1-14, 2019 [**SCI**, **IF = 4.94/2019, Google Scholar Citations: 56**].
2. **Sumeet Chakraborty** and Tanish Dey**,** Non-linear stability analysis of the CNT reinforced composite cylindrical shell panel subjected to thermomechanical loading, **Composite Structure**, 255, 112995, 2021 **[SCI, IF = 5.138/2021, Google Scholar Citations: 12]**.
3. **Sumeet Chakraborty**, Tanish Dey and Rajesh Kumar, Instability characteristics of damped CNT reinforced laminated shell panels subjected to in plane excitation and thermal environment, **Structures,** 34, 2936-2949, 2021 **[SCI, IF= 2.98/2022, Google Scholar Citation: 1].**
4. **Sumeet Chakraborty,** Tanish Dey, Vishal Singh, and Rajesh Kumar, Thermal Stability Analysis of Three-Phase CNTRFC Cylindrical Shell Panels, **Journal of Aerospace Engineering (ASCE)**, **Under review.**
5. **Sumeet Chakraborty**, and Tanish Dey, Thermomechanical Buckling and Wrinkling Characteristics of Softcore Sandwich Panels with CNT Reinforced Composite Face Sheets, **Composite Structures, Under Review.**
6. **Sumeet Chakraborty**, M.S. Hora and K. K. Pathak, Buckling behaviour of steel column having an intermediate support, **ARPN Journal of Engineering and Applied Sciences**, 12, 4414-4423, 2017 [**SCOPUS**, **IF = 0.35/2017**, **Research-gate Citation: 1**].

Refereed papers in Conference Proceedings

1. **Sumeet Chakraborty**, Pravar Yadav and Tanish Dey, Free vibration analysis of laminated composites plate: Experimental and Numerical Approach, **2nd international conference on advance dynamics and vibration control** (**ICADVC, 2018**), NIT Durgapur, India, 2018.
2. Tanish Dey and **Sumeet Chakraborty**, Non-linear stability analysis of CNT reinforced functionally graded laminated composite plates, **Proceedings of Asian Joint Symposium on Aerospace Engineering** (**ASAE**), HICO Gyeongju, Republic of Korea, 2018.
3. **Sumeet Chakraborty** and Tanish Dey, Dynamic instability analysis of CNT reinforced laminated composite plates subjected to periodic non-uniform axial loadings, **23rd international conference on composite (ICCS23)**, University of Portio, Portugal, 2020.
4. **Sumeet Chakraborty** and Tanish Dey, Stability of CNT reinforced plates under thermal loading, **1st International conference on recent advances in computational and experimental mechanics (ICRACEM)**, IIT Kharagpur, India, 2020.