

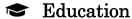
Sanchit Saxena

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Skills Logical thinking Problem solving abilities Communication Self-motivation Time management Determination Team Work



Indian Institute of Technology, Guwahati PhD in Structural Engineering CPI: 9.29/10	2020 – ongoing
PEC University of Technology, Chandigarh Bachelors in Engineering (Civil Engineering) CPI: 8.4/10	2016 – 2020
GTB Public School, Meerut Higher Secondary (Science Stream) Percentage: 92.2%	2014 – 2016
Delhi Public School, Meerut Secondary CGPA: 10	2013 – 2014

Research Experience

Doctoral Scholar, IIT Guwahati

Evaluation of radiation attenuation of different concrete configurations

- Development of full-scale testing shock tubes
- Blast and impact testing on conventional shock tubes
- Development of design guidelines for shear thickening fluid (STF) based bullet proof jackets
- Study on STF impregnated Kevlar fibres for bullet proof jackets

Research Assistant, IIT Roorkee

Characterization of industrial rice husk ash (RHA)

Utilization of RHA as supplementary cementitious material

Jan' 2019-July' 2019

Jan' 2021 -

Ongoing

Technical Skills

Programming Language: C++*, Python, MATLAB

Radiation simulating software: XCOM program, NGCAL, Geant4 software

Structural Analysis and Design: SAP2000, STAAD Pro, LS DYNA

Miscellaneous: MS Office (Excel, Word, Powerpoint)

* Elementary Proficiency

Achievements

Prime Minister's Research Fellowship (PMRF), May 2022: Recipient of PMRF fellowship by Ministry of Education (MOE), Govt. of India.

Graduate Aptitude Test in Engineering (GATE) 2020: Secured All India Rank 969 among 125974 candidates appearing for the test.

Publications

- Kumar, S., Saxena, S., Sharma, H., Gangolu, J., & Prabhu, T. A. (2023). Development of Design Guidelines using Probabilistic Framework for The Development of Smart Thickening Fluid Based Ultra Resistant Adaptive Kinematic Soft Human Armor (SURAKSHA). Reliability Engineering & System Safety, 109277.
- 2. Kumar, S., Saxena, S., & Sharma, H. (2022). Ballistic Performance Evaluation of High-Performance Fabric Due to Intervarn Friction. Practice Periodical on Structural Design and Construction, 27(4), 04022043.

****** Extra-Curricular Activities

- Vice-Captain of IIT Guwahati Cricket team. (July 2022-Present)
- Core member of Octaves (Music Club), IIT Guwahati. (July 2022-Presnt)
- Founder of Project Aradhya N.G.O. (April 2020-December 2021)