

Profile Page



Name : Dr Neelam Rani

Designation : Assistant Professor Grade-i

Department : Civil Engineering

Qualification : Ph. D Structural Engineering (Wind Engineering) (IIT Roorkee)
M.Tech Structural Engineering (Wind Engineering) (IIT Roorkee)
B.Tech Civil Engineering (Madan Mohan Malaviya Engineering College)

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Research Interests :

Structural Engineering, Wind Engineering

Other Profile Links :

Google Scholar Link :

Neelam Rani [Click Here](#)

Journal Publications :

Year	Journal	Publication
2022	Wind and Structures An International Journal	Review of international wind codes and recent research on mono-slope canopy roof

Conference Publications :

Year	Conference	Publication
2022	Recent Trends in Civil Engineering, National Institute of Technology Silchar	Varun Aneja Neelam Rani, Interference Effect Between Tall Buildings with Square Cross-Sections
2022	Recent Trends in Civil Engineering, NIT Silchar	Ankit Karan, Neelam Rani, M. Abdul Akbar, Structural and Economic Characteristics of Buildings with Different Fire Ratings as Per Indian Codes
2022	International Conference on Structural Engineering and Construction, NIT Silchar	Neelam Rani, Ajay Pratap, Ashok K. Ahuja, Wind Pressure Distribution on Multi-span Semi-circular Canopy Roofs

2022	Third International Conference on Structural Engineering and Construction Management (Secon 22), FISAT, Kerala	Wind Load Effect on square and helical Buildings
2022	4th International Conference on Trends and Recent Advances in Civil Engineering (TRACE- 22), Amity University	Vinayak Gautam, Neelam Rani, Numerically Investigating the effect of wind load on square and setback building
2022	ICRAMERD - 22 (3rd International Conference on Recent Advances in Mechanical Engineering Research and Development):, NUSANDHAN UNIVERSITY	Bipul Sharma, Neelam Rani and M Abdul Akbar, Finite Element Analysis of Cranked Beam with Reinforcement Detailing of SP 34 (1987)
2022	7 th International Conference on Civil Structural and Transportation Engineering (ICCSTE'22), -	Neelam Rani, Ajay Pratap Effects of varying roof slope and wind direction on single and multi-span mono-slope canopy roof
2022	International Conference on Structural Engineering and Construction Management, NIT Silchar	S. Hemanth, Neelam Rani, M. Abdul Akbar, Strengthening of Deep Beam Using External Bonding of Carbon Fiber Reinforced Polymer
2022	Joint Conference of ICTACEM 2021, APCATS 2021, AJSAE 2021 and AeSI 2021, IIT Kharagpur	Ajay Pratap, Neelam Rani, Turbulence model and grid sensitivity analyses of T-shape tall building using Computational Fluid Dynamics Technique
2021	International Conference on Advances in Structural Mechanics and Applications, NIT Silchar	Ajay Pratap, Neelam Rani, CFD Simulation for Wind Loads on Multi- ∞ Flat Canopy Roofs
2018	Urbanization Challenges in Emerging Economies	Rani, N. and Ahuja, A.K., (2017), "Effect of Wind Incidence Angle on Multi-Span Mono-Slope Canopy Roof",
2017	5th National Conference on Wind Tunnel Testing	Rani, N. and Ahuja, A.K., (2017), "Effect of Spacing on Wind Pressure Distribution on Flat Canopy Roofs
2017	13th Americas Conference on Wind Engineering, Gainesville, Florida, USA	Rani, N. and Ahuja, A.K., (2017), "Wind Loads on Flat Canopy Roofs",
2017	The Ninth International Structural Engineering and Construction Conference (ISEC-9) Resilient Structures and Sustainable Construction Valencia, Spain	Rani, N. and Ahuja, A.K., (2017), "Wind Pressure Distribution on Circular Canopy Roof",
2017	9th Asia-Pacific Conference on Wind Engineering, Auckland, New Zealand	Rani, N. and Ahuja, A.K., (2017), "Effect of Spacing on Wind Pressure Distribution on Circular Canopy Roof",
2017	International Conference on Recent Advances in Civil Engineering	Rani, N. and Ahuja ,A.K., "Effect of Blockage of Wind Loads on Mono-slope Canopy Roofs",

Book/Chapter Publications :

Type	Title	Publisher	Authors	ISBN/ISS N No.	Year
	Wind Pressure Distribution on Multi-span Mono-slope Canopy Roofs	Springer	Neelam Rani, Ashok Kumar Ahuja, Bharat Chauhan		2022
	Numerical Response Study of Rectangular Cross-Section Building Under Wind Interference Condition	Springer	Bharat Chauhan, Ashok Kumar Ahuja, Neelam Rani		2022
	Response of T-shaped Tall Building Under Wind Load	Springer	Priyadarsh, Neelam Rani		2022

Events Organized :

Category	Type	Title	Venue	From	To	Designation
STC	National	Prospects of Future Research in Structural and Geotechnical Engineering	Online	07/09/2022	11/09/2022	
STC	National	Analysis and Design of Structures: Practices and Challenges	Online	15/02/2021	19/02/2021	

PhD Supervised :

Scholar Name	Research Topic	Status	Year	Co-Supervisor
Suraj Pathak		On Going	2023	
Vinayak Gautam	CFD Simulation of aerodynamic forces and wind pressure on tall buildings with various setback cases	On Going	2022	
Saumya Yadav		On Going	2021	
Aakarshan Uppal	Interference effect on tall building	On Going	2021	
Ajay Pratap	Wind Load Effects on Multi span Canopy Roofs	On Going	2020	

PG Dissertation Guided :

Student Name	Dissertation Title	Status	Year	Co-Supervisor
Ayush Jain		On Going	2023	
Danish Raja		On Going	2023	
Danish Ahmad Ashwar		On Going	2023	
Mihir		On Going	2023	
Jafar Ali		On Going	2023	
Vinayak Gautam	CFD Simulation of Aerodynamic Forces and Wind Pressure on Tall Buildings with Various Setback Configuration	Completed	2022	
Sami Ul Lah Dar	Study on Impact of Cyclonic Importance Factor and offshore Factor on Telecom Towers	Completed	2022	
Himanshu Tonk	CFD Simulation of wind aerodynamic and flow characteristics of helical shaped tall Buildings	Completed	2022	
Bipul Sharma	Finite Element Analysis of cranked beam with reinforcement detailing of SP 34 (1987)	Completed	2022	
PARTEEK	Finite Element Analysis of RCC Staircase Supported On Masonry Wall (2022)	Completed	2022	
Hemant S	Strut and tie modelling of transfer girder in building	Completed	2020	
Priyadarsh PG	Interference effects of wind induced pressure on mono-slope canopy roof.	Completed	2020	
Varun Aneja	Optimization of foundation for horizontal axis wind turbines.	Completed	2020	
Ankit Karan	Static and dynamic characteristics and economic impacts of building structures designed for different fire rating	Completed	2020	

Admin. Responsibilities :

Position Held	Organization	From	To
Warden	MGH	05-01-2023	Till date
Member	IIC	05-04-2022	Till date
Faculty Co-coordinator	Standard Club	08-06-2022	Till date
Co-coordinator	Techniti 23	30-01-2023	Till date
Member	Technical Events	02-03-2021	Till date

Award and Honours :

Title	Activity	Given by	Year
Mrs. Sushila Mital Memorial	Lawn Tennis	IIT Roorkee	2016
All India Rank-372	Exam	GATE	2010