AMAN GARG

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Master of Technology (Soil Dynamics)
Indian Institute of Technology Roorkee
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AREAS OF INTEREST

Geotechnical Earthquake Engineering, Piled Raft Foundation, Soil Structure Interaction, Finite Element Analysis.

UNIVERSITY STUDIES AND EDUCATION

Educational qualifications	Year	Board/institution	CGPA*/ %
PG: Soil Dynamics	2016	Institute of Technology, Roorkee	9.59
UG: Civil Engineering	2014	Uttarakhand Technical University, Dehradun	79.3
Higher Secondary Education	2009	Board of High School and Intermediate Education, UP	72.0
Secondary Education	2007		69.5

*on a scale of 10

RESEARCH AREAS

- Performance of Piled Raft Foundation under Dynamic Loading

  Performed numerical analysis on connected and disconnected Piled Raft Foundation embedded in layered soil system subjected to dynamic loading using Finite element software PLAXIS 3D considering the effect of non-linearity of soil and soil-pile-raft interaction.

- Behavior of Recycled Aggregate Concrete at Elevated Temperatures

  Concrete blocks having the same composition but different percentage of Recycled Aggregate were casted for testing the compressive strengths by varying temperature and time of exposure. Recycled aggregates also had been tested for highlighting its properties.

INTERNSHIP

- DAAD IIT master sandwich program — Sep' 2015 - Mar' 2016

  Numerical Modeling of Piled Raft Foundation using PLAXIS-3D

- CSIR-CBRI Roorkee — Jun-Aug, 2013

  Developing, Monitoring and Strengthening of RC Element.

SKILLS AND ACHIEVEMENTS

Computer Languages	MATLAB, C-language
Software Packages	PLAXIS, AUTOCAD, ABAQUS, MS-office
Academics	✓ DAAD Scholar-2015 ✓ Achieved All India Rank 1062 in GATE-2014 Civil Engineering ✓ Second position in Bachelor's and Master's
Languages Known	English – Advanced Knowledge, German – A1 level, Hindi – Mother Tongue

LIST OF PUBLICATIONS

- Sharma R., Nautiyal A., Garg A., "Earthquake Analysis of Multi Layered Building and Filled Walls" International Journal of Research Fellow for Engineering, Volume 4, Issue 4, 2016.
- Garg A., Rukhaiyar S., "Variation of compressive strength of recycled aggregate concrete (RAC) & natural aggregate concrete (NAC) at elevated temperatures", Proceedings of UKIERI Concrete Congress, Concrete Research Driving Profit and Sustainability, 2-5 November 2015, Jalandhar Punjab India.
- Presented a research paper on titled "Size and Shape Effect on Compressive Strength of Concrete" in the National Conference on Research and Innovations in Engineering and Technology (NCRIET-15), 28-29 March 2015 Roorkee, India.
- Presented a research paper on titled "Recycled Aggregate as Construction Material" in the National Conference on Emerging Trends in Engineering Science & Technology (NCETEST-2014), 29-30 March 2014, Roorkee, India.

DECLARATION

I hereby declare that the above-mentioned information is true to the best of my knowledge and I bear the responsibility for the correctness of the above furnished particulars.