

VAIBHAV YADAV

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EDUCATIONAL QUALIFICATIONS

Degree	Year	Specialization	Institute/University/Board	CPI / %
M.S. by Research	2019	Civil Engineering (Structure)	Indian Institute of Technology Kanpur	7.2/10
B. Tech	2014	Civil Engineering	Uttar Pradesh Technical University, Lucknow	78.06
XII (HSC)	2008	PCM	Sardar Patel Inter College, Kanpur	70.6
X (SSC)	2006	Science	Saraswati Vidya Mandir, Kanpur	72.33

M. TECH THESIS (Structures)

Influence of aggregate to cement ratio on the proportions of enhanced porosity concrete containing single-sized aggregates

Guide: Dr. K.V. Harish

- Effect of aggregate size on the permeability of pervious concrete at constant water to cement ratio and varying aggregate to cement ratio by using Falling head permeability test on cylindrical specimens performed with clean and turbid water (storm water) both to understand the clogging phenomenon and loss infiltration capacity of the pavement.
- Compression and flexural tests were performed on a Specimen conforming to the ASTM standards and measure the density and unit weight to determine the effect of compaction factor and porosity in terms of strength.
- Image processing tests were conducted to understand the pore connectivity of the pervious concrete specimens.
- Tests performed for determining the roughness index and skid resistance of the pervious concrete pavement to find the suitability for getting desirable amount of friction for riding bike and driving vehicles.

MAJOR M.S. By RESEARCH COURSE PROJECTS

Finite Element Method for Wall panel Problem *Prof. S. Mukhopadhyay Jan'16-Apr'16*

- Analysis of concrete wall panel using 'Mindlin plate theory', an extension of Kirchhoff love plate theory using MATLAB algorithm to determine the resulting moments and shear forces.
- Point load acting at center of the surface of wall panel and Eight node quadrilateral system has been used.

Analysis of plate bending by FEM *Prof. S. Mukhopadhyay Jan'16-Apr'16*

- Modelling and simulation to obtain engineering constants were carried out in ABAQUS.
- Standard elements for three-dimensional shell geometries used.

B.TECH PROJECT *Prof. Manish Keshewani Jan'14-Apr'14*

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| Analysis and Design of Multistory Building | - Analysis of G+21 RCC Frame building using STAAD Pro to distribute the loads. |
| | - Design for Flexure and Shear loads. |

B.TECH Internship *Jun'13-Jul'13*

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| Garrison India Ltd., Kanpur | - Levelling of ground using Auto-level Method |
| | - Laying down the Sewage lines & providing gradient for sufficient flow by using leveling system |
| | - Testing of Soil Sample and providing footing according to the bearing capacity |

Work Experience

University polytechnic (Diploma) Kanpur	Head of the department since 5 th Aug 2019 till date
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TECHNICAL SKILLS

Software: MS Office, STAAD pro, ABAQUS, AutoCAD, MATLAB	Languages: C
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CO- & EXTRA-CURRICULAR ACTIVITIES

Sports	Gold Medals in Volleyball	Silver Medals in Volleyball	- Participated in Uttar Pradesh State Level Volleyball Championship twice 2013, 16
	- Inter IIT Sports meet 2016 - Udghosh'15 2015 - Inter School Volleyball Championship 2007	- District Volleyball Championship, Kanpur Nagar 2015 - Spardha'15, Sportech'16 & Sangram'17	
Literary	1 st prize in "National Essay Writing" Competition Organized by Vidya Bharti.		2006

POSITIONS OF RESPONSIBILITY

Leadership	Captain of inter-school Volleyball Team	2007-08	- Played as a Setter, who is responsible for team, to play as an unit, by maintaining co-ordination and communication between players and led my team towards victory.
Mentoring	Teaching Assistant in various courses - Steel structure under Dr. V. K. Gupta - Structures Lab under Dr. Sudhir Mishra - Experimental methods in civil engineering under Dr. Samit Ray Chaudhary	2015-17	- Conducting quizzes, exams, experimental classes. - resolution of students' qualms related to subject and counselling for better understanding of subject. - Calibration of instruments in structure lab.