



SRISHTI KUSHWAHA

SKILLS

- SRAAD PRO
- ETABS
- SAP2000
- AUTOCAD
- COMSOL
- GATE SCORE- 623

CONTACT

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EDUCATION

M.Tech (Structural Engineering)
[2021 – Present]
CGPA- 8.3

IIT Bhubaneswar

B.tech (Civil Engineering)
[2017] – [2021]
CPI- 9.58
First Division with Honors

Jamia Millia Islamia

Inter School
Percentage- 92.4

ISC BOARD

High School
Percentage- 92.33

ICSE BOARD

THESIS WORK

Master of Technology (Structural Engineering)

Electro-Mechanical Impedance based strength prediction of concrete

Abstract-

The development of an embedded piezoelectric sensor, which can be embedded in concrete for continuous monitoring of changes in the material brought about by hydration. The embedded sensor relies on monitoring changes in the Electrical Impedance (EI) measured from piezoelectric Lead Zirconate Titanate (PZT) patch.

Smart clinker comprising of PZT 5H ('Piezoelectric Ceramics, Central Electronics Limited'), of dimension 10x10x0.2 (mm) embedded in concrete block is simulated in COMSOL 5.5.

Electrical Impedance of the PZT patch was measured at an applied voltage of 1V across the terminals of the PZT patch over a frequency range of 250 kHz to 450 kHz.

Corresponding signatures are obtained for various values of Young's Modulus of concrete, indicative of number of days.

Thereafter, corresponding data is trained using various regression models.

Bachelor of Engineering (Civil Engineering)

Essential Environmental Component of Green Building

Which primarily focused on building material aspect as to energy efficient material usage in concrete.

ACHIEVEMENTS

- Tata Realty Renewal Scholarship Scheme throughout my Bachelors.
- Been awarded cash prize for distinguish performance in 2nd and 4th year of Bachelor
- Fellowship during Masters.

COURSE WORK

Advanced Concrete Technology, Advanced Solid Mechanics, Advanced Structural Analysis, Infrastructure Maintenance and Rehabilitation, Mathematical Methods, Computational Laboratory, Design of Special Structures, Bridge Engineering, Dynamics of Structure, Seismic Design of Structures, Finite Element Method, Seminar courses.

EXPERIENCE

Teaching Assistant in IIT Bhubaneshwar:

- Solid Mechanics
- Computational Lab (STAAD, SAP2000, ETABS)
- Reinforced Detailing of Concrete
- Engineering Drawing

REFERENCES:

- **Prof. Dinakar Pasla**
School of Infrastructure (IIT Bhubaneshwar)

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- **Dr. Jothi Saravanan Thiyagranjan**
School of Infrastructure (IIT Bhubaneshwar)

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