

Suranjit Saha | CE23D024

Indian Institute of Technology Madras



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EDUCATION

Program	Institution/Board	Percentage	Year of completion
Ph.D. in Civil Engg.	IIT Madras	-	Pursuing
M.Tech in Transportation Engg.	NIT Agartala	95%	2023
B.Tech in Civil Engg.	NIT Agartala	86%	2021
Class XII	Hindi Higer Secondary School Abhoynagar Agartala	84.4%	2017
Class X	Holy Cross School Agartala	93%	2015

OBJECTIVES

- To conduct cutting-edge research in Transportation Engineering that has the potential to make a real-world impact.

SCHOLASTIC ACHIEVEMENTS

- Best Paper Award in “Second International Conference on Construction Materials and Structures” jointly organized by UNSW Sydney, University of BATH, MONASH University, NIT Calicut, Purdue University. (ICCMS – 2022)
- Ranked within the top 10% of the class (having the strength of 162) in X – 2015
- Ranked within the top 10% of the class (having the strength of 210) in XII – 2017
- Secured First class with Distinction in Bachelor’s Degree.
- Qualified GATE 2021 with a percentile of 91.3.
- Qualified GATE 2022 with a percentile of 90.
- Qualified GATE 2023 with a percentile of 93.4.
- Ranked within top 10th position in the Institute in Master’s Degree, batch 2021-23, National Institute of Technology Agartala.
- Ranked 2nd in Silverzone International Math Olympiad conducted at State level 2016.
- Ranked 9th in Math Olympiad conducted at district level 2013.
- Winner team of district level science exhibition 2012.

SOFTWARE SKILLS

- KENPAVE
- IITpave
- Origin
- QGIS
- AutoCAD

PROJECTS

- PG PROJECT (May 2023)
Title: Performance of Soil Stabilized Subbase and Subgrade using Vinyl Acrylic Co-polymer
Description:
 1. The main objective of this study is to evaluate the resistance to permanent deformation of flexible pavement based on full scale accelerated pavement tests (APT) using a heavy vehicle simulator (HVS).
 2. To reduce the overall thickness of the pavement layers.
 3. To study the use of stabilizers to enhance the quality of the subbase and the subgrade.

- UG PROJECT (May 2021)
Title: Strengthening of RC beams using various types of FRPs.
Description:
 1. To evaluate the flexural/shear strength of RC beams retrofitted by FRPs made of artificial fibres like glass fibre , carbon fibre etc., & its comparison with the flexural/ shear strength of normal RC beam.
 2. To evaluate the flexural/shear strength of RC beams retrofitted by FRPs made of natural fibres like jute fibre , sisal fibre etc.,& its comparison with the flexural/shear strength of normal RC beam.
 3. To compare the various economic aspects of using natural fibres and natural polymers with respect to their artificial counter-halves.
 4. To provide suitable guidelines to practicing engineers on the usability of natural fibre reinforced polymer epoxy composites and usability of natural polymer composites for retrofitting purpose.

PROFESSIONAL EXPERIENCE

- Worked as Teaching Assistant (TA duty) in National Institute of Technology, Agartala during Mtech. (June 22 - MAY 23)
 - Courses Handled
 1. Engineering Drawing - B.Tech Civil Engg.
 2. Seminar - B.Tech Civil Engg.
 - Laboratory Handled
 1. Transportation Engineering laboratory - B. Tech Civil Engg.

- Project assistant for a consultancy project – “Construction of NH – 208, Khowai – Mohanpur, Tripura under NHIDCL, constructed by Jandu Construction India Pvt. Ltd.”, NIT Agartala – 2022.

PUBLICATIONS

- K. Debbarma, S. Saha and P. Pratim Sarkar, Application of vinyl acrylic co-polymer on subgrade and sub base pavement stabilization, Materials Today: Proceedings, <https://doi.org/10.1016/j.matpr.2023.03>

CO-CURRICULAR ACTIVITIES

- Life time member of Indian Road Congress (IRC).
- Associate member of The Institute of Engineers (IEI).

TRAINING PROGRAMS

- Participated in “3-day virtual certification programme on Entrepreneurial Skills on Geospatial Data Management” organized by Centre for Remote Sensing and GIS (CRSGIS) & Crescent Innovation and Incubation Council (CIIC), B.S.Abdur Rahman Crescent Institute of Science and Technology, Chennai on 23.02.2022 to 25.02.2022.
- A training for a period of 23 days have been completed on "Construction of super speciality block for Agartala Govt. Medical College, Tripura under PMSSY Phase-III ", CPWD. (Dec 2018 - Jan 2019)

EXTRA-CURRICULAR ACTIVITIES

- Artist in All India Radio Kakoli (Tabla).
- Artist in All India Radio Yuvabani (Tabla).
- Junior Scholarship in Hidustani Musical Instrument Table under CCRT, New Delhi, Ministry of Culture, Govt. of India.
- Senior Scholarship in Hidustani Musical Instrument Table under CCRT, New Delhi, Ministry of Culture, Govt. of India.

INTERNSHIP

- An internship for a period of 6 weeks have been completed on the topic "USE OF ALTERNATIVE SAND FOR SUSTAINABLE CONSTRUCTION", Jadavpur University, West Bengal. (May 2019 - Jul 2019)

PERSONAL DETAILS

Date of Birth	12 th June ,1998
Languages Known	English, Hindi, Bengali
Correspondence address	East Shibnagar, Water Supply Road, Near Sharat Palli, Agartala, Tripura (W) – 799004.
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REFERENCE

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DECLARATION

I hereby declare that all the details furnished above are true to the best of my knowledge.