

# Swarnalee Mazumder

H- 55A ♦ Ambicapatty, Silchar- 04 ♦ Assam, INDIA  
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## EDUCATION

**National Institute of Technology Silchar**  
**Major: Civil Engineering** 2017-2021  
B.Tech GPA(Until 5th sem): 7.40/10  
Maharishi Vidya Mandir, Silchar  
High School 2017  
PCMB Percentage: 89%  
Maharishi Vidya Mandir, Silchar 2015  
Matriculation CGPA: 10/10

## PUBLICATIONS

**Seismic Effect on Pile Foundation** July-2020  
**Supervisor:** Dr. Asim Kanti Dey  
· dfcvbnm

## PROJECTS

**Seismic Effect on Pile Foundation** July-2020  
**Supervisor:** Dr. Asim Kanti Dey  
· dfcvbnm

**Smart Early Warning System for Landslide detection based on IoT** Feb, 2020-Present  
**Supervisor:** Dr. Amit Kumar Das,  
Dr. Prasanta Roy  
· Instrumentation in Geotechnical Engineering. This project is based on interdisciplinary research work and coordinated interlinking of data that could be a strong base for slope failure early warning systems by use of IoT.

## EXPERIENCE

**Research Intern** Summer-2020  
**NIT Silchar**  
**Supervisor:** Dr. Asim Kanti Dey  
· Seismic effect on bearing capacity of shallow foundation in clay, sand and in pile foundation  
· Analysis of a 8-storey building under earthquake load in 3 different types of soil conditions

**Summer Intern** Summer-2020  
**IOCL Bongaigaon**  
· Fire Safety  
· Bitumen Basics and Road Repair  
· Industrial painting  
· Tank M I and Role of civil Maintenance in refinery  
· SOR and its uses  
· RCC Pavement design  
· Tendering process

**Engineering Design Intern** Spring-2020  
**Vardhan Consulting Engineers**

- Green Buildings - Calculation and Ratings
- Extensive analysis of the Green Building Rating Systems in India

**Summer Trainee** Summer-2019  
**Assam Public Works Department**

- Construction aspects of Roadworks, Preparation of D.P.R and Quality Assurance

## WORK EXPERIENCE

**General Secretary** NIT Silchar  
**Indian Geotechnical Society Silchar Student Chapter**  
July, 2020 - Present

**Design Head** NIT Silchar  
**Razzmatazz - Incandescence** Feb 2021

**Senior Member** NIT Silchar  
**Gyansagar : Social Wing of NITS** 2021

**Design Head** NIT Silchar  
**School Genius - Tecnoesis** 2020

## COURSE WORK

**Civil Engineering** Geotechnical Eng., Foundation Eng., Transportation Eng., Surveying, Structural Engg., Environmental & Water Resource Engineering  
**Relevant Courses** Linear Algebra, Calculus, Probability and Statistics, Numerical Methods, Introduction to C

## TECHNICAL STRENGTHS

**Programming** Python, C, C++ , L<sup>A</sup>T<sub>E</sub>X, MATLAB  
**Software & Tools** StaadPro, AutoCAD, ArchiCAD, MS Office, Primavera Risk Analysis, Adobe Photoshop, Primavera P6