

# Swarnalee Mazumder

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## PROJECTS

### A COMPARATIVE STUDY OF SEISMIC EFFECT ON THE BEARING CAPACITY OF SHALLOW FOUNDATION IN CLAY, SAND AND PILE FOUNDATIONS

Nov 2020 | NIT Silchar

- **Advisors:** Prof. Ashim Kanti Dey
- Studied the effect of earthquake in an eight storeyed building that proposed to be constructed at Silchar (Zone -V) in different soil conditions.

### ANALYSIS AND DESIGN OF FIVE STOREYED RESIDENTIAL BUILDING

Aug 2020 - Ongoing | NIT Silchar

- **Advisors:** Dr. Amit Kumar Das
- Complete plan and design of a G+4 building and analysis using both hand calculation and StaadPro.

### SMART EARLY WARNING SYSTEM FOR LANDSLIDE DETECTION BASED ON IOT | UG RESEARCH COUNCIL

Feb 2020 - Present | NIT Silchar

- **Advisors:** Dr. Amit Kr. Das, Dr. Prasanta Roy
- 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

### INTERNSHIP | IOCL BONGAIGAON REFINERY

Summer 2020

- Made aware of the various works that take place in a refinery wherein also learned about the important aspect of fire safety, importance of civil maintenance, tendering process among others.

### ENGINEERING DESIGN INTERN | VARDHAN CONSULTING ENGINEERS

Spring 2020

- Green Buildings-Calculations and ratings.
- Prepared an extensive analysis report of the various green building rating systems in India for the completion of the internship.

### SUMMER TRAINEE | ASSAM PUBLIC WORKS DEPARTMENT

Summer 2019

- Got to know the construction aspects of roadworks, preparation of D.P.R and quality assurance.

## POSITIONS OF RESPONSIBILITY

**GENERAL SECRETARY** | IGS SILCHAR STUDENT CHAPTER

**SENIOR MEMBER** | GYANSAGAR - SOCIAL WING OF NIT SILCHAR

**DESIGN HEAD** | SCHOOL GENIUS - TECNOESIS

**DESIGN HEAD** | RAZZMATAZZ - INCANDESCENCE

## EDUCATION

### NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR

BTECH IN CIVIL ENGINEERING

2017-2021

GPA: 7.63/10 (Until Sem 6)

### MAHARISHI VIDYA MANDIR SILCHAR

ALL INDIA SENIOR SCHOOL

CERTIFICATE EXAMINATION

2017

Percentage: 88.8%

### MAHARISHI VIDYA MANDIR SILCHAR

ALL INDIA SECONDARY SCHOOL

EXAMINATION

2015

CGPA: 10/10

## SKILLS

### PROGRAMMING

Python •  $\LaTeX$  • MATLAB

### SOFTWARES

AutoCAD • StaadPro

ArchiCAD • Primavera P6

Adobe Photoshop • Microsoft Office

## RELEVANT COURSES

### UNDERGRADUATE

Soil Mechanics • Hydrology

Mathematics I,II,III • Geosynthetics<sup>a</sup>

Neural Networks and Fuzzy Logic<sup>a</sup>

Traffic Engineering<sup>a</sup> • Structural Analysis I,II,III

## INTERESTS

- Transport and Network Systems
- Hydrological Sciences
- Geotechnical Engineering •Human Psychology

<sup>a</sup>ongoing