

Swarnalee Mazumder

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PROJECTS

ANALYSIS AND DESIGN OF FIVE STOREYED RESIDENTIAL BUILDING

Dec 2020 | NIT Silchar

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

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.

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: 7.89/10 (Until Sem 7)

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 • C++ • Microsoft Office

INTERESTS

- Earth Systems
- Climate Science
- Hydrological Sciences

RELEVANT COURSES

UNDERGRADUATE

- Engrg. Mathematics
- Engrg. Hydrology
- Neural Networks and Fuzzy Logic
- Geotechnical + Foundation Engrg.
- Earthquake Engrg.
- Evolutionary Algorithms in Search and Optimization