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## WORK EXPERIENCE

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### Intern

**Building Department, Aligarh Muslim University** [14 Jun 2018 – 5 Jul 2018]

**City:** Aligarh, India

During this internship we studied different types of problematic Soils for Foundation Design and their preventive Measures. This internship gave me better understanding of field condition of different types of problematic soils in foundations and their preventive measures.

### Masters Project

**Aligarh Muslim University** [21 Jul 2019 – 25 July 2021]

**City:** Aligarh, India

Tunnelling induced settlement determined by experimental lab model and numerical modelling. The effect of varying spacing between twin tunnels on ground settlement was studied using numerical methods. A physical model of 1.2x1x1 m sandy soil mass having with a circular tunnel with a diameter of 20 cm was used in modelling study. The 2D numerical analysis was then carried out using the finite element approach using the academic version of Geo5. Ground settlement, principal stresses, effective stress and shear force were compared. After the validation of numerical model developed in Geo5 at parametric studies has been performed. Analyse twin tunnel model at different spacing between twin tunnels such as 0.5d at 1 d at 1.5d and 2d at where d was diameter of each tunnel. A full scale model similar to Delhi Metro Rail Corporation (DMRC) has also been studied.

### Bachelors Project

**Aligarh Muslim University** [19 Jul 2018 – 11 May 2019]

**City:** Aligarh, India

In this project we found daily and seasonal variation of different parameters at different unit's inlet and outlet point and detect efficiency decreasing factors and their solutions. During this project we faced various types of problems comes during its management. Effluent of sewage treatment was utilized by farmers in agricultural land. Treatment plant management health concern also kept in mind. Farmers utilized effluent of sewage treatment plant and conserve surface and subsurface water.

## EDUCATION AND TRAINING

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### Master of Technology (Geotechnical Engineering)

**Aligarh Muslim University** Aligarh, 202002 (India) [21 Jul 2019 – Current]

[www.amu.ac.in](http://www.amu.ac.in)

**Final grade: 9.6/10 passed with Distinction (1st Position in Geotechnical Section)**

Applied Engineering Mathematics, Advanced Foundation Engineering, Earth and Earth Retaining Structures, Geotechnical Engineering Lab, Advanced Rock Engineering, Earth and Rock fill Dam, Dynamics of Soils and Foundations, Ground Improvement and Geosynthetics, Computational Lab, Project, Finite Element Analysis, Pavement Analysis and Design.

Environmental Engineering, Waste Management, Higher Mathematics, Numerical Techniques, Transportation Engineering, Traffic Engineering, Soil Mechanics, Construction Management, Irrigation Engineering, Water Supply and Treatment, Geology, Surveying, Survey Camp, Applied Chemistry, Applied Physics, Applied Physics Lab, Applied Chemistry Lab, Environmental Engineering Lab, Communication Skill Lab, Mathematics 2nd , Mathematics 3rd , Mathematics 4th , Soil Mechanics Lab, English, Computer Programming Lab, Geo Engineering of Rock and Rock Mass, Environmental Engineering Lab, Foundation Engineering etc.

## **PUBLICATION**

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- **Zainul Abedin Khan** “Climate Change Impact On Soil Behaviour” in Online National Conference on Sustainable Research in Energy and Environment (SREE-2021) conducted by National Institute of Technology, Jalandhar (NIT-J), India , 15-16 JAN 2021.(SREE2021/NITJ/216)
- **Zainul Abedin Khan** “Sustainable Environmental Management and Development of Transportation System in Smart Cities” in Online National Conference on Sustainable Research in Energy and Environment (SREE-2021) conducted by National Institute of Technology, Jalandhar (NIT-J), India , 15-16 JAN 2021.(SREE2021/NITJ/263)
- Md Asad Ahmad, **Zainul Abedin Khan**, Sahir Azam Shad “Numerical Modelling for Stabilization of Slopes Using Soil Nails” In International Conference on Recent Advances in Civil Engineering for Sustainable Development RACESD2021 at National Institute of Technology, Bhopal India 16-18 Feb 2021. **(Published)**
- **Zainul Abedin Khan**, Md Shahab Khan, M.R. Sadique, Manojit Samanta, Mohd. Masroor Alam “Response of Twin Transportation Tunnel in Earthquake Loading: A Review” in an International Conference on Community based Research and Innovations in Civil Engineering (CBRICE2021) conducted by Manipal University, Jaipur, India 18-19 March 2021. **(Published)**
- Md Shahab Khan, **Zainul Abedin Khan**, M.R. Sadique, Mohd. Masroor, Manojit Samanta, “Seismic Behaviour of Double Arched Tunnel: A Review” in an International Conference on Community based Research and Innovations in Civil Engineering (CBRICE2021) conducted by Manipal University, Jaipur, India 18-19 March 2021. **(Published)**

## **ONLINE COURSES**

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### **Coursera Courses**

- “Global Environmental Management” by “Technical University of Denmark (DTU)”, Denmark.
- “Introduction to Climate Change and Health” by Yale University, USA.
- “Our Earth: Its Climate, History, and Processes” by University of Manchester, United Kingdom.
- “Global Energy and Climate Policy” by University of London, United Kingdom.
- “Sustainable Agricultural Land Management” by University of Florida, USA.
- “Fundamentals of Organization” by Politecnico di Milano, Italy.
- “Ecosystem Services: a Method for Sustainable Development” by University of Geneva, Switzerland.
- “The Sustainable Development Goals – A global, transdisciplinary vision for the future” by University of Copenhagen, Denmark.
- “Ecology: Ecosystem Dynamics and Conservation” by American Museum of Natural History and Howard Hughes Medical Institute.
- “Introduction to Environmental Law and Policy” by The University of North Carolina at Chapel Hill.
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- “Introduction to Household Water Treatment and Safe Storage” by École Polytechnique Fédérale de Lausanne (EPFL), Switzerland.

#### Online Short Term Courses

- I am participated in a two days National Workshop on “Seismic Safety of Structure” and An International Conference on Recent Advancement in Engineering (as listener).
- Indo-Canadian online Workshop on “Interactive Design in Geotechnical Engineering: Theory to Practice” conducted by National Institute of Technology, Surathkal (NIT-K), 24th Sep – 2nd Oct, 2020.
- Five day online Faculty Development Program on “Sustainable Environmental Geotechnics” conducted by Department of Civil Engineering, S.R.K.R. Engineering College, Andhra Pradesh, Oct 5, 2020 to Oct 9, 2020.
- One week online short term course on “ Recent Advances of Machine Learning in Software Engineering ”, conducted by National Institute of Technology, Jalandhar (NITJ), India , 23-27th November 2020.
- One week online international workshop on “ Durability of Concrete” conducted by National Institute of Technology, Surathkal (NIT-K), 26-30th Oct, 2020.
- One week online short term course on “ Recent Advances in Concrete Technology ”, conducted by National Institute of Technology, Jalandhar (NIT-J), India , 15-19th September 2020.

## ACADEMIC ACHIEVEMENTS

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- Secured 1st position in school in class 10(High School).
- Qualified Graduate Aptitude Test (GATE) 2020 conducted by Indian Institute of Technology Delhi (IIT DELHI) with 92.4 percentile.
- Secured 1st position in Geotechnical Engineering Section in Masters.

## SCHOLARSHIPS

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- Recipient of Merit Cum Means Scholarship at Undergraduate Level in 2015, 2016, 2017 and 2018 by Government of India.
- Recipient of MHRD fellowship during Masters in Geotechnical Engineering in 2019-2021 from the Government of India.

## LANGUAGE SKILLS

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Mother tongue(s): Urdu, Hindi

Other language(s):

#### English

LISTENING B2 READING B2 WRITING B2

SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

## DIGITAL SKILLS

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Microsoft Office / Microsoft Excel / Microsoft Word / Microsoft PowerPoint / GEO5 Geotechnical Software / GEOSTUDIO / Auto CAD Civil / Finite Elements Analysis.