

## Curriculum and Accreditation

The UGC approved 4 years Bachelor of Science in Civil and Environmental Engineering (BSCEE) program offered by CEED intrinsically meets and hopefully exceeds ABET (Accreditation Board for Engineering and Technology), USA and IEB's BAETE (Board of Accreditation of Engineering and Technical Education), Bangladesh criteria. Thus the department assigns priority to course offerings, faculty selection and course planning in a way, so that accreditation standards are properly met. The program demonstrates proficiency in all branches of civil engineering, i.e. structural, environmental, geotechnical, transportation, and water resources.

The School of Engineering and Physical Sciences as a whole is in the process getting accredited by both ABET, USA and BAETE, Bangladesh. Accreditation provides an assurance that the students are receiving a quality engineering education. Since many employers worldwide prefer to hire graduates from ABET accredited institutions, this will make it easier for our graduates to enter into the global workforce.

## Course Content

Total credit hours: 149 ( + 9 credit equivalent non-credit courses) , 4 years program.

A new curricula following modern US practices will be implemented soon having about 130 credits.

The course content covers all the requirements of five major disciplines of civil engineering as Structure, Geotechnical, Transportation, Water Resources and Environmental Engineering. Following US style, it includes a capstone project.

CEED is also planning to open Masters in Construction Management and Masters in Water Resource & Environmental Engineering soon.



## Resources

- The University has Departments on Physics and Mathematics, Environmental Science and Management, Electrical and Computer Engineering, Life Science and Architecture having a large number of basic laboratories such as Computer Aided Drawing (Auto CAD), Environmental and Water Quality Laboratory, Computing facilities, Physics, Chemistry and Biology Laboratories, Geographic Information System (GIS) and Environmental Modeling laboratory.
- NSU has allocated almost 10,000 square feet floor areas for Structural, Survey, Geotechnical, Concrete, Transportation and Hydraulic Laboratories. The drawing facilities are fully functional. NSU has allocated necessary resources to establish international standard laboratory facilities with most current sophisticated and best quality instruments.
- All equipments for the Surveying and Concrete laboratories are fully equipped and functional. Equipments for Structural and Hydraulics laboratories are ordered and will be set in 2015.
- Opportunity for credit transfer to reputed universities abroad. Many students from North South University are presently studying abroad either after completion of their undergraduate program or transferring credit during study period.



Drawing Room



Surveying



Concrete Lab



- State-of-the-art library and computer center. The facilities in the library & computer centre are comparable to any of the world class universities of the present time.
- CEED recognizes that a strong connection between the Civil Engineering Industry and academia not only contributes to knowledge sharing, but also opens up potential opportunities for the graduating students. Thus, CEED has initiated the process to build connections with industries and Memorandum of Understanding (MoU) are in process to be signed upon approval by both parties.
- Regular field trips and educational excursions either as part of departmental course requirement or as trips organized by different clubs that emphasize learning through practical experiences.
- Seminars, workshops, round table discussions are organized to exchange ideas and knowledge as well as to enhance student's communication ability.
- Recreational facilities with indoor play zone and gymnasium.
- Opportunities for participating in international seminars, conferences and workshops.



# Admission

Usual dates for Admission Tests for three semesters are **Spring:** end of November, **Summer:** end of March and **Fall:** end of July. Presently students are being enrolled in the B S in Civil and Environmental Engineering program. Students who prefer Civil and Environmental Engineering as first choice in the application form will be given priority. Please visit NSU website for details.

## Admission Criteria

The minimum qualifications for admission into the programs are:

1. Academic Qualifications:
  - a) Total GPA = 8.0; with a minimum GPA of 3.5 in both SSC and HSC exams.
  - b) GCE O-level and A-level: O-level with five subjects having Average Grade Point of 2.5 or above and A-level with two subjects having Average Grade Point of 2.0 and above; in the scale of A=5, B=4, C=3, D=2 & E=1. (one E is acceptable)
  - c) A US High School Diploma or equivalent. Requirements may be changed anytime if there is a change in admission policy.
2. Acceptable scores in NSU admission test.
3. Admission test will be waived for those who got a minimum score of 1500 in SAT (Math+ Critical Reading + Writing) and 550 (CBT 213/IBT 79) in TOEFL or 5.5 in IELTS.
4. HSC/A-level (appeared) candidates may sit for the admission test on the basis of an undertaking that they will not be admitted unless they pass the HSC/A-level exam with minimum GPA requirement which will be mentioned in the Admission Offer Letter. A-level appeared student must submit their Statement of Entry.

## Foreign Students

Special provision of admission for foreign students either based on admission test or based on their school results. Foreign students should contact Registrar office or CEED office first before planning for admission.

## Credit Transfer

Civil Engineering / other discipline students studying at other reputed public or private universities in Bangladesh or elsewhere in the world can transfer their credit to NSU accordingly as per NSU rule. NSU degrees and courses are also accredited worldwide. CEED is also in process of offering 2+2 and 4+1 joint degrees with few foreign universities in USA and UK.



Foreign students with Engr. F. R. Khan

## Financial Aid

Around 10% NSU students get financial assistance in different forms, amounting around 10 crore taka. Financial assistance from 25% to 100% of tuition fee waiver available in the following categories:

- Based on previous academic attainment and Admission Test result (Merit based Scholarship).
- Based on high academic attainment at NSU (Merit based tuition waiver).
- Based on financial NEED of a student (Waiver on humanitarian grounds).
- Based on financial need & merit (Merit-Need based waiver).
- Based on two or more siblings studying together at NSU (Waiver for siblings).

***Freedom Fighter's privilege:*** Children of freedom fighters after admission through due process will get 100% tuition fee waiver, i.e. can study at NSU free of cost.

### Student Organizations

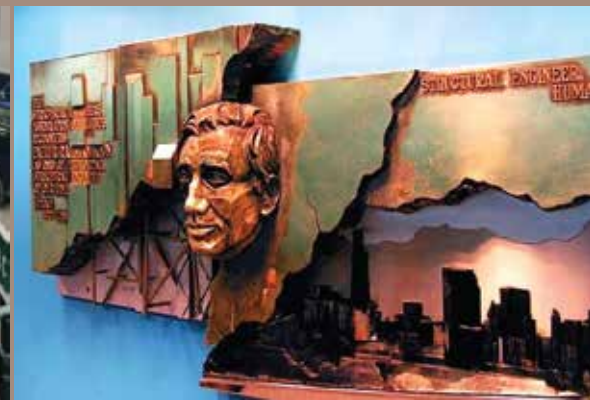
- NSU strongly encourages involvement of students with co-curricular and extra-curricular activities, through twenty different student's clubs. Every department has one club related to its specialized field. Other than this, there are generalized clubs as Debate club, Photography club, Drama club, Social service club, etc. The formation of the Civil and Environmental Engineering Club (CE2C) is in progress. The club is dedicated for CEED students. Students can also join one other club of his/her interest.



**Dr. Fazlur Rahman Khan**  
(3 April 1929 – 27 March 1982)  
Born in Dhaka, Bangladesh



*Legendary Bangladeshi-American civil engineer who designed Sears Tower (Presently Willis Tower), the then tallest building in the world. His concept of Tubular Structure was a revolution in skyscrapers building so that he is regarded as the Father of Tall Building Design and Einstein of Structural Engineering. His monuments are there in USA and recognition in different forms as road name, university chair and award, etc. CEED along with entire Bangladeshi nation is proud of this great civil engineer of the history.*





*The First Private University in Bangladesh*



Teesta Barrage



Jamuna Bridge



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