Contents

CEED at NSU

Why ‘Civil and Environmental Engineering’

Civil and Environmental Engineering: Bangladesh’s Perspective

Strategic Mission & Vision

Faculty and Advisory Council

Curriculum and Accreditation

Resources

Admission

Financial Aid
Brief History

North South University, the first private university in Bangladesh, was established in 1992 by NSU Foundation (presently NSU Trust), formed by a group of philanthropists, industrialists, bureaucrats and academics. It is actually the selfless endeavor of these dignified individuals, which ultimately paved the way for a new horizon of opportunity in Bangladesh, i.e. higher education in the private sector. It is the visionary outlook of NSU Trust and tireless effort by NSU administration, which made this university a brand name in the higher education sector in the region. Starting with a total student of 137 in 1993, at present, it is one of the largest universities in Bangladesh as well, with around 16000 students.

Founder Life Member

Mr. Benajir Ahmed  
Chairman of BoT and NSU Trust
Mr. Azim Uddin Ahmed
Mr. Iftekharul Alam
Dr. Roushon Alam
Mr. Ragib Ali
Mr. M. A. Awal
Mr. Yussuf A. Harun
Mr. M.A. Hashem
Mr. M. A. Kalam
Mr. S. M. Kamaluddin
Mr. M. A. Kashem
Mr. Abul Kashem
Mrs. Yasmin Kamal
Mrs. Rehana Rahman
Mr. A. S. F. Rahman
Mr. Md. Shahjahan
Dr. Junaid Kamal Ahmad

Founder General Member

Dr. Mahabub Hossain
Prof. Syed A. Ahad
Mr. Nurul H. Khan
Mrs. Shaista Ahmed
Mr. Mahbubar Rahman
Mr. Shah Abdul Hannan

Following the Private University Act-2010, Mr. Benajir Ahmed is the current Chairman of the Board of Trustees (BoT), North South University and North South University Trust. Prof. Dr. Amin U Sarkar, is the Vice Chancellor of the University. As per the policy, NSU follows North American academic system with all its distinctive features, i.e. semesters, credit hours, letter grades, etc. Its curricula, when first introduced, usually reviewed by relevant departments of US universities. All the faculty members of this university are graduates from reputed universities worldwide, especially from USA, Canada, UK, Japan and Australia. At present there are sixteen academic departments at NSU, under four major schools as; Business, Engineering and Physical Sciences, Humanities and Social Sciences, and Health and Life Sciences. The Civil and Environmental Engineering Department (CEED) belongs to the School of Engineering and Physical Sciences (SEPS). Prof. Dr. Miftahur Rahman is the Dean of the School of Engineering and Physical Sciences (SEPS).
Recently, NSU has taken initiative to strengthen its engineering school, making it as a full-fledged school with all basic engineering programs. As part of it, Civil and Environmental Engineering Department was launched in 2013. In fact, back in 2003 a committee convened by honorable BoT member Benajir Ahmed proposed CEED, which later got approval of UGC in 2004. Since then, there was always a demand from prospective students to study in this discipline. NSU, however, took time and the real progress towards recruitment of students took a stride after establishment of its state-of-the-art permanent campus at Bashundhara, where laboratory facilities and other infrastructures were possible to be built. Adequate time was taken here to ensure that a quality civil engineering program could be designed with all the required facilities.

Civil engineering is considered as the oldest and the most classical form of engineering education, covering diverse fields. In fact, the history of civil engineering dates back to the history of civilization, and the earliest practice of civil engineering may had commenced between 4000 to 2000 BC in Mesopotamia and Egypt when humans started to abandon a nomadic existence, creating a need for the construction of shelter. In the academic arena, the term Civil Engineering was introduced to incorporate all engineering works for civilians as opposed to Military Engineering. Later, civil engineering was further divided into all the engineering disciplines that we see nowadays. It is thus considered as the mother of all engineering disciplines.

The main objective of the Department of Civil and Environmental Engineering (CEED) at NSU is to provide and equip students with the highest level of technical competencies, social responsibility, leadership and lifelong learning skills for a successful career in civil engineering.

L to R : Prof. Dr. Amin U Sarkar (Vice Chancellor), Prof. Dr. Miftahur Rahman (Dean, SEPS) Mr. Benajir Ahmed (Hon’l Chair, BoT), Dr. Md. Sirajul Islam (Chair, CEED)
Why ‘Civil and Environmental Engineering’?

Civil and Environmental Engineering is the modern version of classical Civil Engineering degree. In fact, civil engineering comprises five basic blocks namely Structure, Geotechnical, Transportation, Water resources and Environmental engineering. With the growing concern over environment and development issues in the present world, water and environmental engineering divisions of civil engineering discipline have been strengthened worldwide, changing its name to Civil and Environmental Engineering. In USA, almost hundred percent universities have changed the name of Civil Engineering department to Civil and Environmental Engineering. The trend started in late 80s and continued all over the world. Some of the examples here can be mentioned as Stanford University (USA), Massachusetts Institute of Technology (MIT, USA), University of California, Berkely (USA), Carnegie Mellon University (USA), Imperial College (UK), University of Waterloo (Canada), University of New South Wales (Australia), Tokyo Institute of Technology (Japan) and National University of Singapore, etc.

NSU, as it nurtures the most up-to-date and advanced thoughts of the present world, and mostly follows US style in its curriculum design, it is thus decided to name the department as Civil and Environmental Engineering. In Bangladesh, most recently, the newly opened Civil Engineering departments are also named as Civil and Environmental Engineering, as for example, IUT, Gazipur and SUST, Sylhet.
Civil and Environmental Engineering: Bangladesh’s Perspective

As a developing country, Bangladesh is expected to take up huge infrastructure projects in this century. Along with the boom in the real estate sector, large span bridges, elevated expressways, flyovers, metro-rail, subway, bus rapid transits, airports, expansion of railway service, deep-sea port, barrage, dam, surface water treatment plants, etc, are some of the examples of upcoming mega structures. Being a disaster prone country and highly vulnerable to climate change and sea level rise, infrastructure development to combat them is required in the near future too. In addition, there is a growing job market for civil engineers in abroad as well including Middle-east, Singapore, North America, Australia and even Europe.

In the country, till now the maximum number of engineering job positions in the public sector are for civil engineering graduates. Civil engineers constitute the highest number of civil service (BCS) cadres. The government organizations and departments which are predominately run by civil engineering graduates include Public Works Department (PWD), Roads and Highways Department (RHD), Department of Public Health Engineering (DPHE), Bangladesh Railway, Local Government Engineering Department (LGED), Water Development Board (WDB), Military Engineering Service (MES), Army Engineering Core, WASA, City authorities like RAJUK, Civil Aviation Authority, Port Authorities, BIWTA, BADC, Municipal Corporations, etc. Apart from this, a large number of research organizations, private consulting and construction firms, NGOs and international development agencies recruit civil engineers as for example, WARPO (Water Resources Planning Organization), RRI (River Research Institute), IWM (Institute of Water Modeling), CEGIS, World Bank, ADB, JICA, UNDP, DFID, USAID, CIDA, DANIDA, GIZ, AUSAID, SIDA, IDB, CARE, ACTIONAID, OXFAM, NGO FORUM, WaterAid International, Alliance & ACCORD, etc.