FIRST INDUSTRY ADVISORY BOARD MEETING

DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING NORTH SOUTH UNIVERSITY

PROFESSOR MOHAMMAD NAZMUL ISLAM, CHAIR OF THE DEPARTMENT ROOM NO 746, SOUTH ACADEMIC BUILDING, NSU CAMPUS, BASHUNDHARA, DHAKA

OUTLINE

- VISION AND MISSION
- ACADEMIC PROGRAMS
- STUDENTS
- FACULTIES
- LABORATORIES
- RESEARCH

VISION

DCEE at NSU aspires to be a leader in providing engineering solution to infrastructure development in a sustainable manner in line with the national and global context. In line with this, it will gain recognition, nationally and globally, and will attract students, faculty and staff accordingly, and collaborate with industries and other stakeholders.

MISSION

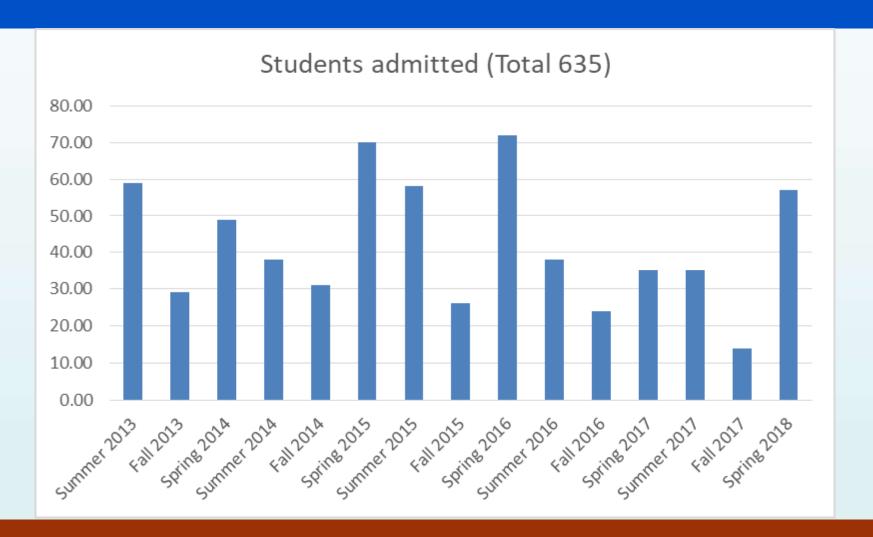
The mission of CEED at NSU is to produce world-class engineering graduates with proficient in technical competency, ethical standard and leadership skill, who can have a successful career in civil and environmental engineering as a professional and/or contribute to advancement in knowledge and innovation in the field. Specifically it will concentrate on:

- Imparting adequate technical skill to students with up-to-date global knowledge base;
- Ensuring that the students have the skill of critical thinking and analytical skill;
- Educating with social awareness, ethical and sustainability commitment, and leadership skill;
- Contributing to research, innovation and maintaining an effective industryacademia relation; and
- Standardizing skill sets and education methods with national and international scale.

ACADEMIC PROGRAMS

- B.S. IN CIVIL AND ENVIRONMENTAL ENGINEERING (approved by UGC in 2004)
- BS IN CIVIL AND ENVIRONMENTAL ENGINEERING (under approval process in UGC)
- MS IN CIVIL AND ENVIRONMENTAL ENGINEERING (curriculum committee)

STUDENTS



STUDENTS

- National curriculum HSC
- International curriculum A level
- Expatriates mostly from Arab countries
- Foreign students Somalia, Bhutan

Total current students = 484 Ratio male/female = 4: 1 (approximately)

Dr. Md. Sirajul Islam Professor, Water Resources

Ph.D. in Environmental Engineering, University of Tokyo, Japan

M Engg. In Civil Engineering, National University of Singapore (NUS), Singapore

B.Sc. in Civil Engineering, BUET, Dhaka

Dr. Javed Bari Professor, Transportation Engineering

PhD, in Civil Engineering, Arizona State University, USA

MS, in Civil Engineering, Arizona State University, USA

M.Engg. in Environmental Engineering, BUET, Dhaka

B.Sc. in Civil Engineering, BUET, Dhaka Professional Engineer (PE), USA

Brigadier General (rtd) Dr. Habibur Rahman Kamal, ndc, psc

Professor, Structural Engineering

PhD, Preston University, California, USA
MS, Naval Post Graduate School, USA
M Sc in Civil Engineering, Bangladesh University of
Engineering and Technology(BUET)
Masters of Science in Development Studies,
Bangladesh University of Professionals (BUP)
B.Sc. in Civil Engineering, Chittagong University of
Engineering and Technology

Dr. Mohammad Nazmul Islam Professor & Chair, Structural Engineering

PhD. in Civil Engineering, The University of Tokyo, Japan

MSc.Engg. in Civil Engineering, National University of Singapore (NUS), Singapore BSc. in Civil Engineering, BUET, Dhaka

Dr. Nazmun Nahar Associate Professor, Water Resources Engineering

PhD in Civil Engineering, Purdue University, USA MSc in Civil Engineering, Purdue University, USA BSc. in Civil Engineering, BUET, Dhaka Professional Engineer (PEng), Canada

Dr. Nadim Reza Khandaker Associate Professor, Environmental Engineering

PhD in Environmental Engineering, Pennsylvania State University, USA MSc in Environmental Engineering, University of Arkansas, USA BSE in Chemical Engineering, University of Massachusetts at Lowell, USA Professional Engineer (PEng), Canada

Dr. Md. Shoaib Chowdhury Associate Professor, Transportation Engineering

PhD, in Transportation, New Jersey Institute of Technology, USA M.E. in Civil Engineering, City College of New Tork (CCNY), USA BSc. in Civil Engineering, BUET, Dhaka Professional Engineer (PE), USA

Dr. Shama E. Haque Assistant Professor, Environmental Engineering

Ph.D. in Environmental Engineering (Geochemistry), University of Texas at Arlington, USA

B.Sc. in Civil Engineering, University of Texas at Austin, USA

Dr. Fahmidah Ummul Ashraf Assistant Professor. Water Resources

Ph.D. in Civil Engineering, Pennsylvania State University, PA., USA, 2015 M.Sc. in Civil and Environmental Engineering, University of Texas at San Antonio (UTSA), TX., USA, 2013

B.Sc. in Water Resource Engineering, BUET, Bangladesh, 2009

Ms. Sifat Kalam Lecturer, Environmental Engineering

M.A.Sc. in Civil Engineering (Environmental Engg.), University of British Columbia (UBC), Canada B.Sc. in Civil Engineering, BUET, Dhaka

Fokruddin Ahmad Lecturer, Structural Engineering

M.Sc. in Civil Engineering, University of North Dakota, USA

B.Sc. in Civil Engineering, BUET, Dhaka

Md. Tousif Rahman Lecturer, Geotechnical Engineering

MSc. In Geotechnical Engineering, University of Newcastle Upon Tyne, UK B.Sc. in Civil Engineering, Cardiff University, UK

S.M. Ashfaqul Hoq Senior Lecturer, Structural Engineering

Ph.D. (ongoing), University of Wyoming, USA MSc in Civil Engineering, The university of Texas at Arlington (UTA), TX, USA B.Sc. in Civil Engineering, BUET, Dhaka

Ms. Nawrin Anwar Lecturer, , Environmental Engineering

Ph.D. (ongoing), Concordia University, Montreal, Canada

M.E.Sc. in Civil and Environmental Engineering (Environmental Engineering), University of Western Ontario, Canada

B.Sc. in Civil Engineering, BUET, Dhaka

- Structural engineering: Two Professors and one lecturer
- Transportation Engineering: One Professor and One Associate Professor
- Water Resources Engineering: One Professor, One Associate Professor and One Assistant Professor
- Environmental Engineering: One Associate Professor
 One Assistant Professor and One lecturer
- Geotechnical Engineering: One Lecturer

PART TIME FACULTIES

Dr. Asif Mohammad Zaman Managing Director, Esolve International & Associate Professor

Ph.D. in Water Resources Management, University of Melbourne, Australia M.Eng. in Environmental & Earth Resource Engineering, Imperial College London, UK

Dr. Shoeb Reaz Alam Additional Deputy Inspector General Bangladesh Police & Assistant Professor

Ph. D. in Civil Engineering, Lamar University, Texas, USA

M.Sc.in Civil Engineering, Lamar University, Texas, USA

B.Sc. in Civil Engineering, BUET, Dhaka

David M Khan Senior Specialist, Institute of Water Modeling, Dhaka & Senior Lecturer

EMBA, Institute of Business Administration (IBA), Dhaka

M.Sc. Texas A & M University (TAMU), USA B.Sc. in Civil Engineering, BUET, Dhaka

STRUCTURAL ENGINEERING LABORATORY





Extensometer





Bending Test Attachment



Digital Load Calibration Device



Beam Testing Apparatus

Universal Testing Machine (UTM)

STRUCTURAL ENGINEERING LABORATORY



Rockwell Hardness Tester



Pendulum Impact Tester



Slender Column Testing Machine



Iron Cutting Tools

ENGINEERING MATERIALS LABORATORY



Dual Frame Compression Machine



Digital Load Calibration Cell



Blaine Apparatus with Accessories



Vicat Apparatus



Slump Cone with Base Plate

ENGINEERING MATERIALS LABORATORY



Crack Detection Microscope



Los Angeles Abrasion Machine



Motorized Sieve Shaker and Standard Sieves



Concrete NDT Testing Schmidt Hammer



Buoyancy Balance



Core Cutting Machine (Petrol Engine Driven)

TRANSPORTATION ENGINEERING LABORATORY



Cleveland Flash and Fire Point Tester



Rotational Viscosity (Brookfield)



Ring and Ball Apparatus



Magnetic Strirrer/ Hotplate



Penetration for Ashphalt









TRANSPORTATION ENGINEERING LABORATORY



Motorized Sieve Shaker



Rice Density Tester



Digital Thermometer



Needle Probe 3mm x 100mm



Particle Size & water absorption measuring equipment



Aggregate Impact Value tester



Vacuum Air Extractor



Standard Flakiness Index set of 7 Sieve

HYDRAULICS LABORATORY



10 m / 30 ft Tilting Flume





Rain Gauge

Hydrologic system bed – to test hydrological cycle components



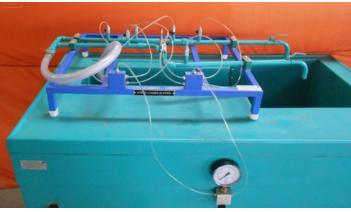
HYDRAULICS LABORATORY



Bernoulli's Apparatus



Hydraulic Bench





Venturimeter



Center of Pressure



Point Gauge

GEOTECHNICAL ENGINEERING LABORATORY



Consolidation Test Machine



Direct Shear Test Machine



Casagrande Apparatus



Unconfined Compression Test Machine



Constant Temperature Convection Oven

GEOTECHNICAL ENGINEERING LABORATORY



CBR Mould with Box and Collar



Permeability Testing Apparatus



Proctor Compaction Test Apparatus



Field Density Test Apparatus



Multifunctional Sample Extruder



Standard equipment for Sieve Analysis

SURVEYING LABORATORY



Total Station



Digital Theodolite



Plane Table With Tripod Case



Alidade 18"



Automatic Leveling Instrument

SURVEYING LABORATORY



Digital Leveling Instrument





Hand GPS (with WASS capability)



Prismatic Compass with Stand



Aluminum Ranging Pole

CURRENT RESEARCH PROJECT

PROJECT : Frontiers in Energy and Energy Efficiency for

Bangladesh

Lead Researcher : Dr. Nadim Reza Khandaker, Associate Professor, DCEE

Other Researchers : Professor Dr. Mohammad Nazmul Islam, Chair, DCEE,

Mr. Md. Tousif Rahman, Lecturer, DCEE

Funding Agency : Max Infrastructure Limited , MAX GROUP

CURRENT RESEARCH PROJECT

PROJECT: Improvement of the Flash Flood warning device

Sonabondhu through coupling with Hydrological

Models

Lead Researcher : Dr. Md. Sirajul Islam, Professor, DCEE

Other Researchers : Dr. Nova Ahmed, Associate Professor, DECE

Dr. Nazmun Nahar, Associate Professor, DCEE

Ms. Sifat Kalam, Lecturer, DCEE

Funding Agency : NSU

SEMINAR



Seminar On



Environmental Applications of Nanotechnology: Electrochemical Carbon-Nanotube Filter for Removal and Inactivation of Viruses and Bacteria

Facilitator: Dr. Saifur Rahaman,
Associate Professor,
Department of Building, Civil and Environmental Engineering
Concordia University, Montreal, QC, Canada

Organized By

Institutional Quality Assurance Cell (IQAC)
at

Department of Civil and Environmental Engineering

North South University

Day & Date: 20th July, 2017 Thursday Time: 10:30 AM to 11:30 AM Venue: Audi 801, NSU

Seminar On

Slope Protection Using Vetiver System

Facilitator: Dr. Mohammad Shariful Islam Professor, Department of Civil Engineering, BUET

Session Chair Professor Dr. Sirajul Islam Professor, Department of Civil and Environmental Engineering North South University

> Day & Date: 5th October, 2017, Thursday Time: 11:00 AM to 12:30 PM Venue: Audi 801, NSU

SEMINAR



Seminar On

Vulnerability of Coastal Bangladesh in a Changing Climate

Speaker: Dr. Susmita Dasgupta Lead Environmental Economist, The World Bank, Washington, D.C.

Session Chair

Professor Mizan R Khan

Professor, Department of Environmental Science and Management, NSU

Host

Ms Sifat Kalam, Lecturer, Department of Civil and Environmental Engineering, NSU

Organized By

Department of Civil and Environmental Engineering
North South University

Day & Date: 18th December, 2017, Monday Time: 11:00 AM to 12:30 PM Venue: Audi 801, NSU



Seminar On

Machine Learning for Applied Science and Engineering

Speaker: Kazi Tamaddun PhD Candidate, University of Nevada, U.S.A

Host

Mr. Fokruddin Ahmad, Lecturer, Department of Civil and Environmental Engineering, NSU

Organized By

Department of Civil and Environmental Engineering
North South University

Day & Date: 27th December, 2017, Wednesday Time: 1:00 PM to 2:30 PM

Venue: Audi 801, NSU

Light refreshment will be served

CONFERENCE



SEMINAR AND CONFERENCE















