



WELCOME TO THE DEPARTMENT OF

Civil and Environmental Engineering (CEE)

ISLAMIC UNIVERSITY OF TECHNOLOGY (IUT)



DEPARTMENTS OF CIVIL & ENVIRONMENTAL ENGINEERING

PROGRAMMES
IN
CEE

BACHELOR OF
SCIENCE IN CIVIL
ENGINEERING

2008

M.SC. / M.ENG. IN
CIVIL
ENGINEERING

2012

PHD IN CIVIL
ENGINEERING

2018

BACHELOR OF SCIENCE IN CIVIL ENGINEERING



B.SC. PROGRAMME OF CEE IS BAETE ACCREDITED

Board of Accreditation for Engineering and Technical Education (BAETE) is the highest body in Bangladesh that provides accreditation to a Program that is offered by an institution



IEB MEMBERSHIP

Graduates are eligible
for IEB Membership



GRADE A

Achieved the highest
grade in first attempt



INTRODUCED OBE CURRICULUM

Planning to apply for
BAETE Accreditation
under Outcome Based
Education

PROGRAMME EDUCATIONAL OBJECTIVES (PEO)

Graduates are expected to acquire and demonstrate these attributes down to four years of graduation. Our Civil Engineering graduates will:

PEO	Elaborated version
PEO 1: Practice Sustainable Engineering	PEO1: Have high-level expertise in mathematical, scientific, and engineering principles to develop solutions for complex engineering problems
PEO 2: Advanced Education and Research	PEO2: Have adequate knowledge to pursue advanced engineering studies for professional growth leading to certifications, professional licenses, and advanced academic degrees.
PEO 3: Leadership, Communication, and Innovation	PEO3: Possess outstanding leadership abilities, effective communication and be innovative in planning, designing and managing civil engineering projects.
PEO 4: Social and Ethical Standards	PEO4: Practice in civil engineering fields with due consideration to society, environment, sustainability, and ethical norms.

DEPARTMENT'S STRENGTH

FACULTY (21)

5

PROFESSORS

6

ASSISTANT
PROFESSORS

10

LECTURERS

STAFF (10)

1

SUB-DIVISIONAL
ENGINEER

2

SR. ASSISTANT
LAB
INSTRUCTORS

1

ASSISTANT
LAB
INSTRUCTORS

1

SR. DRAFTING
INSTRUCTORS

3

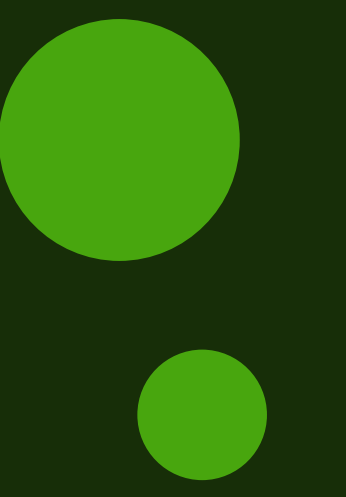
LAB
ATTENDANT

1

SUB
ASSISTANT
ENGINEER

1

ASSISTANT
OFFICE
SECRETARY



PROFESSORS' PROFILE

Dr. Hossain Md. Shahin

Professor and Head



EDUCATION

- PhD (Nagoya Institute of Technology, Japan)
- M.Sc.(Nagoya Institute of Technology, Japan)
- B.Sc. (Bangladesh University of Engineering and Technology)



RESEARCH INTERESTS

- Tunneling
- Constitutive model of soils
- Bearing capacity of shallow and deep foundations
- Liquefaction and Ground improvement problems
- Ground settlement problems
- Geotechnical site investigation
- Land reclamation and embankment problems
- Soil – structure interaction



PANEL OF EXPERTS

- Padma Multipurpose Bridge Project
- Karnaphuli Tunnel Project
- Dhaka Subway Project
- Dhaka-Ashulia Elevated Expressway Project
- BBA Master Plan

Dr. Md. Rezaul Karim

Professor



EDUCATION

- PhD (Yamaguchi University Yamaguchi, Japan)
- M.Sc. (Bangladesh University of Engineering and Technology)
- B.Sc. (Bangladesh University of Engineering and Technology)



RESEARCH INTERESTS

- Water and wastewater management
- Water Resources Management
- Water treatment analysis and process design
- Drinking water quality modeling
- Solar Water Distillation and Solar Disinfection
- Sustainable Management of Municipal Solid Waste
- Feasibility and Reliability of Rainwater Harvesting in Rural and Urban Areas
- Health risk assessment
- Sanitation and Risk Assessment
- Environmental Impact Assessment

Dr. Md. Tarek Uddin, PEng.

Professor



EDUCATION

- PhD (Tokyo Institute of Technology, Japan)
- M.Sc. (Asian Institute of Technology, Thailand)
- B.Sc. (Bangladesh University of Engineering and Technology)



RESEARCH INTERESTS

- Durability of concrete
- Recycling of demolished concrete as aggregate
- Sustainability of concrete structures in severe environment
- Repair and strengthening of concrete structures
- Mechanical performance of deteriorated concrete structures
- Corrosion of steel bars in concrete due to carbonation and chlorides
- Behavior of deteriorated concrete structures under dynamic loadings
- Light-weight aggregates etc.

Dr. Shakil Mohammad Rifaat

Professor



EDUCATION

- PhD (University of Calgary, Canada)
- M.Sc. (National University of Singapore)
- B.Sc. (Bangladesh University of Engineering and Technology)



RESEARCH INTERESTS

- Traffic Safety
- Transportation Planning
- Econometric Modeling
- Transportation Data Analysis

Moinul Hossain, PhD

Professor



EDUCATION

- PhD (Tokyo Institute of Technology, Japan)
- M.Engg.(Tokyo Institute of Technology, Japan)
- M.Engg.(Asian Institute of Technology, Thailand)
- B.Sc. (Bangladesh University of Engineering and Technology)



RESEARCH INTERESTS

- Intelligent Transportation Systems
- Application of Artificial Intelligence in Transportation Engineering
- Travel Demand Forecasting
- Road Safety



ASSISTANT PROFESSORS' PROFILE

Dr. Nazmus Sakib

Assistant Professor



EDUCATION

- Ph.D. (The University of Texas at Austin, USA)
- M.Sc. (The University of Texas at Austin, USA);
- B.Sc. Eng. (BUET)



RESEARCH INTERESTS

- Asphalt technology
- Pavement materials

Dr. Animul Ahsan

Assistant Professor



EDUCATION

- Ph.D. (University of Fukui, Japan)
- M.Sc. Engg. (KUET)
- B.Sc. Engg. (KUET)



RESEARCH INTERESTS

- Saline/Surface water treatment.
- Solar Water Distillation.
- Rainwater Harvesting, Modernization & Implementation in Arid and Coastal Area
- Environmental Impact and Risk Assessment.
- Solid Waste Management

Dr. Imran Kabir

Assistant Professor



EDUCATION

- Ph.D. (University of New South Wales, Australia)
- M.Sc. (Concordia University, Canada)
- B.Sc. Engg. (BUET)



RESEARCH INTERESTS

- Finite Element Modeling
- High Strength Steel
- Stability of Structure
- Composite Structure

Dr. Tanvir Ahmed

Assistant Professor



EDUCATION

- Ph.D. (The University of Western Australia, Australia)
- M.Sc. (IUT)
- B.Sc. Engg. (IUT)



RESEARCH INTERESTS

- Ultra-high performance concrete (UHPC)
- Sustainable construction materials
- Construction management

Mohammad Zunaied-Bin-Harun

Assistant Professor



EDUCATION

- M.Sc. (IUT)
- B.Sc. Engg. (IUT)



RESEARCH INTERESTS

- Sustainable Construction Materials
- Durability of construction Material
- Structural Engineering

Md. Habibur Rahman Bejoy Khan

Assistant Professor



EDUCATION

- M.Sc. (IUT)
- B.Sc. Engg. (IUT)



RESEARCH INTERESTS

- Water Quality
- SODIS
- Environmental Modelling



LECTURERS' PROFILE



Fuad Bin Nazrul



EDUCATION

- M.Sc. (IUT) (Ongoing)
- B.Sc. (IUT)



RESEARCH INTERESTS

- Environmental Engineering



K.B.M Ibrahim



EDUCATION

- M.Sc. (IUT) (Ongoing)
- B.Sc. (IUT)



RESEARCH INTERESTS

- Transportation Engineering



Niaz Ahmed



EDUCATION

- M.Sc. (IUT) (Ongoing)
- B.Sc. (IUT)



RESEARCH INTERESTS

- Transportation Engineering



Farhan Anjum Badhon



EDUCATION

- M.Sc. (IUT) (Ongoing)
- B.Sc. (IUT)



RESEARCH INTERESTS

- Structural Engineering



Anika Tahsin Nabila



EDUCATION

- M.Sc. (BUET) (Ongoing)
- B.Sc. (IUT)



RESEARCH INTERESTS

- Environmental Engineering



Mahnaz Faiza



EDUCATION

- M.Sc. (IUT) (Ongoing)
- B.Sc. (IUT)



RESEARCH INTERESTS

- Transportation Engineering



Maisha Hossain



EDUCATION

- M.Sc. (IUT) (Ongoing)
- B.Sc. (IUT)



RESEARCH INTERESTS

- Transportation Engineering



Mohammad Abu Umama



- M.Sc. (IUT) (Ongoing)
- B.Sc. (IUT)



- Geotechnical Engineering



Md. Noor Tushar



- M.Sc. (BUET) (Ongoing)
- B.Sc. (BUET)



- Earthquake Engineering
- Structural Dynamics



Syed Rafiuzzaman



- M.Sc. (BUET) (Ongoing)
- B.Sc. (BUET)



- Concrete
- Building Materials



FACULTIES ON LEAVE

Ijaj Mahmud Chowdhury

PhD (Ongoing, McMaster University, Ontario, Canada); M.Sc. (IUT); B.Sc. Engg. (IUT)

Istiakur Rahman

PhD (Ongoing, University of Arkansas, USA); M.Sc. (BUET); B.Sc. Engg. (IUT)

Farnia Nayar Parshi

Ph.D. (Ongoing, BUET); M.Sc. (BUET); B.Sc. Engg. (BUET)

Mr. Md. Asif Hasan Anik

PhD (Ongoing, Dalhousie University, Canada); MASc. (Dalhousie University, Canada); B.Sc. Engg. (IUT)

Samia Syeoti Ramim

PhD (Ongoing, University of British Columbia, Vancouver, Canada); M.Sc. (BUET); B.Sc. Engg. (BUET)

Zihan Mahmood Nahian

PhD (Ongoing, Florida State University); M.Sc. (IUT); B.Sc. Engg. (IUT)

Daud Nabi Hridoy

PhD (Ongoing, Howard University, USA); B.Sc. Engg. (IUT)

Mozaher Ul Kabir

PhD (Ongoing, Kansas State University, USA); M.Sc. (BUET); B.Sc. Engg. (IUT)

Nafisa Islam

PhD (Ongoing, University of North Carolina, USA); M.Sc. (BUET); B.Sc. Engg. (BUET)

Musaddik Hossain

PhD (Ongoing, Georgia Institute of Technology, USA); B.Sc. Engg. (IUT)



STAFF PROFILE



Md. Emran Khan
Sub-Divisional
Engineer



Md. Nizam Uddin
Sr. Asst. Lab
Instructor



Md. Solaiman
Hossain
Asst. Lab Instructor



Md. Riaz Uddin
Asst. Drafting
Instructor



Md. Mahmudunnabi
Tareq
Asstt. Lab Instructor



Md. Sayeed Hasan
Asst. Secretary,
IUT-CEE.



Md. Yousup Ali
Sub Assistant
Engineer



Md. Yea Baten
Khan
Lab Attendant



Md. Al Amin Sheikh
Lab Attendant



Md. Shahinur
Hossain
Lab Attendant

LABORATORY AND TESTING SERVICES

- Environmental Engineering Laboratory
- Concrete and structural Testing Laboratory
- Geotechnical Engineering Lab
- Transportation Laboratory
- Hydraulic Laboratory



ENVIRONMENTAL ENGINEERING & HYDRAULICS LAB

- Detailed analysis of potable water and wastewater in terms of physical, chemical, and microbiological parameters.
- Research of hydraulic and hydro-technical problems of water structures like dam, water retaining structure.



ENVIRONMENTAL ENGINEERING & HYDRAULICS LAB



Microscope (Model: Zeiss Primo Star)



Flow Channel



Jar Test Apparatus

CONCRETE & STRUCTURAL TESTING LAB

- Hands on experience about the testing of various construction materials available in the market
- Hydraulic powered Universal Testing Machine (UTM) is used to investigate the flexure and shear behavior of beams and tensile and compressive strength of concrete made with different materials



CONCRETE & STRUCTURAL TESTING LAB



Scanning Electron Microscope



Los Angeles Machine



Universal Testing Machine (UTM)

CONCRETE & STRUCTURAL TESTING LAB



Carbonation Chamber



Crushing machine
(5000 KN)



Cylinder Testing Machine



Corrosion Monitor

CONCRETE & STRUCTURAL TESTING LAB



Temperature and humidity
controlled salt water spray
chamber



Rapid Chloride Penetration Test (RCPT)
Apparatus



Air Content Test
Apparatus

GEOTECHNICAL ENGINEERING LAB

- Soil Tests such as classification, compaction, relative density, unconfined compression, permeability, direct shear, Triaxial and consolidation
- Supports Field boring, testing and sample collection



GEOTECHNICAL ENGINEERING LAB



Triaxial Test Apparatus



Direct Shear Testing Equipment

GEOTECHNICAL ENGINEERING LAB



Temperature and humidity controlled
salt water spray chamber



Casagrande apparatus



Equipments

TRANSPORTATION LAB

- Testing of different road construction materials,
- Micro simulation and Macro simulation lab



ESRI's ArcGIS for working with maps and geographic information



Simulation of Urban Mobility



Bentley Cube



Microscopic Traffic Simulation



TRANSPORTATION LAB



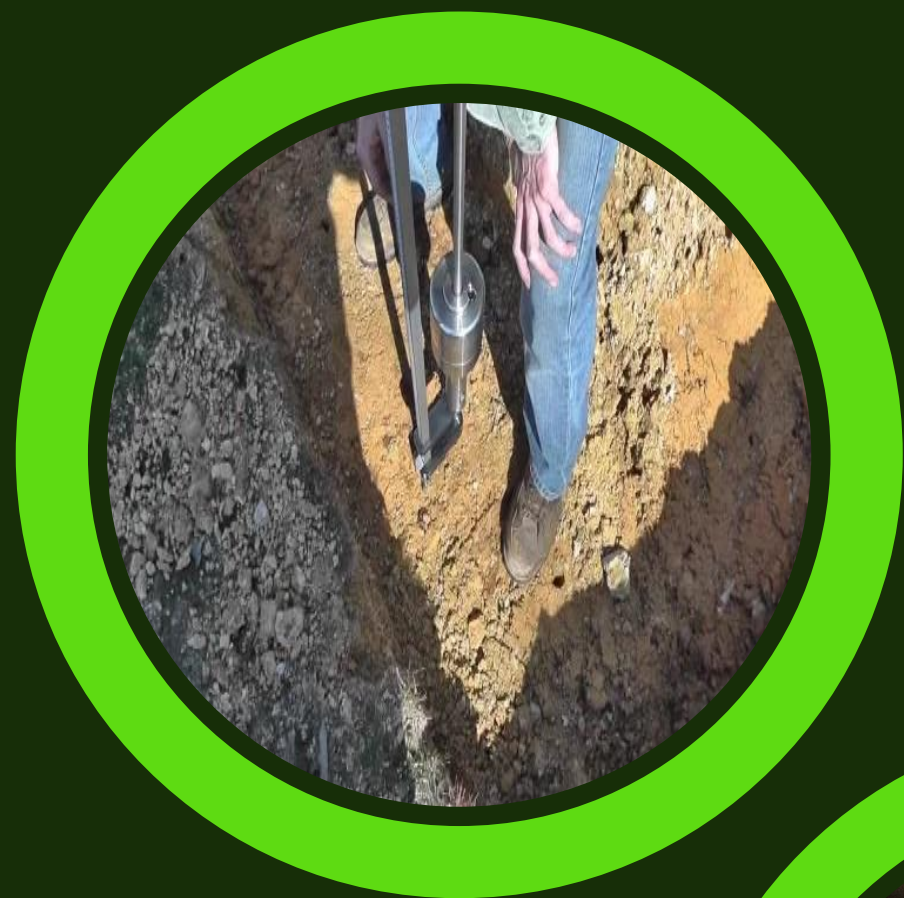
Los Angeles Machine



CBR-Marshal Tester



Proctor Automatic Universal

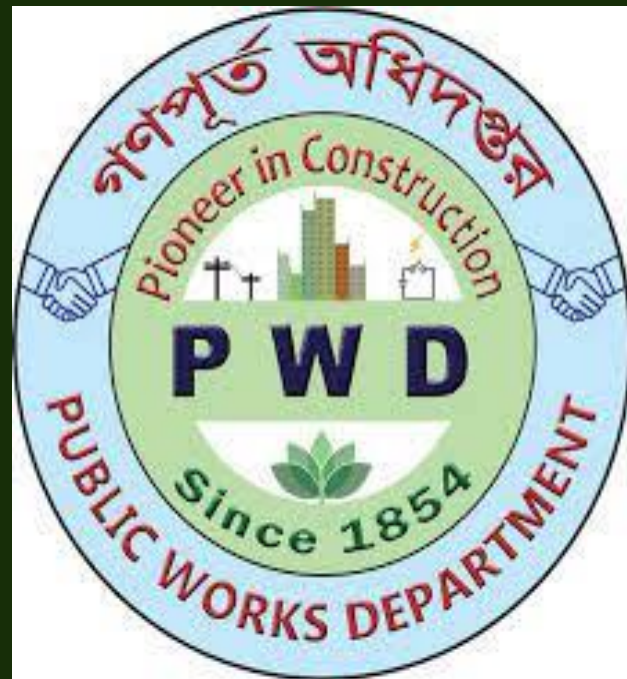


COMMERCIAL TESTING AND CONSULTANCY SERVICES

Department of CEE has done numerous projects under Testing and Consultancy Services. This allows the department to maintain a regular interaction with industries through different commercial services.



LGED



INDUSTRIAL TRAINING PROGRAMME

3 WEEKS INTENSIVE TRAINING PROGRAMME IN
DIFFERENT FIELDS OF CIVIL ENGINEERING.



**Roads & Highways Department,
Bangladesh**

EXTRA-CURRICULAR ACTIVITIES

1

AMERICAN CONCRETE INSTITUTE IUT
STUDENT CHAPTER

2

INSTITUTE OF TRANSPORTATION
ENGINEERS (ITE) IUT STUDENT CHAPTER

3

CENNOVATION

4

IUT DEBATING SOCIETY

5

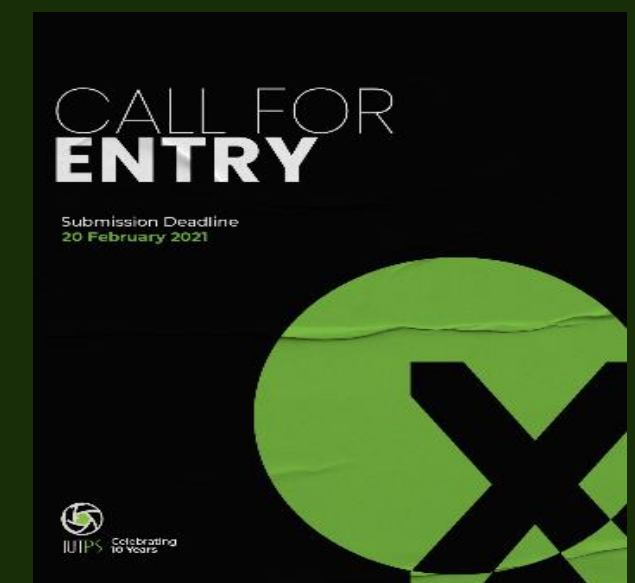
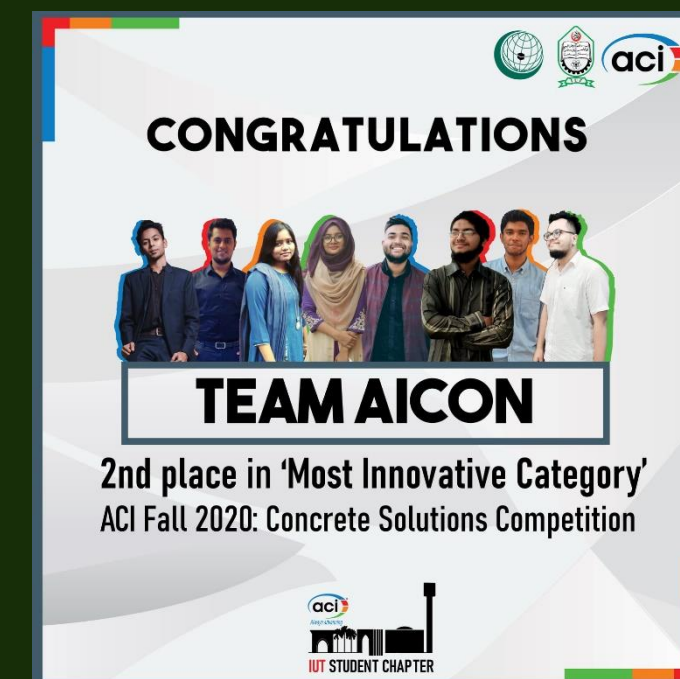
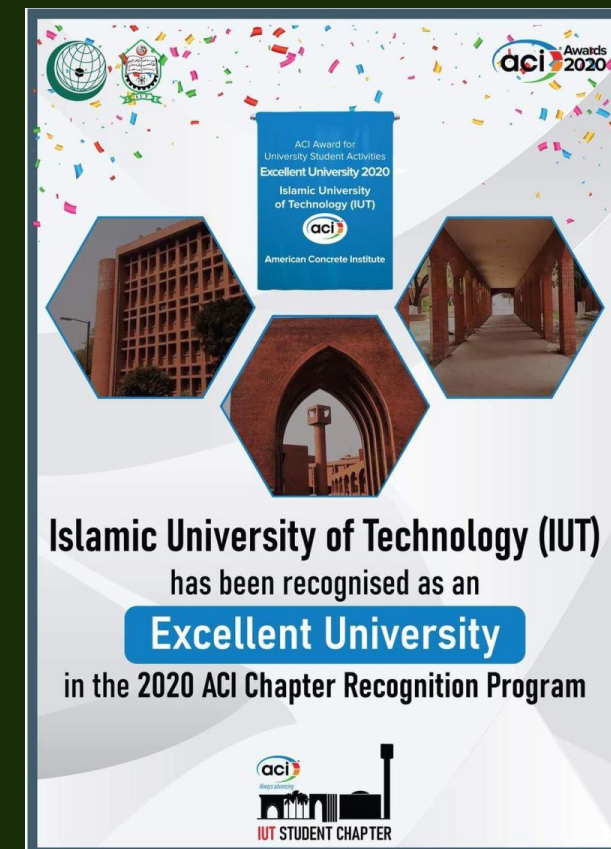
IUT PHOTOGRAPHY
SOCIETY

6

IUT CAREER AND
BUSINESS SOCIETY

7

SOCIETY FOR ISLAMIC
KNOWLEDGE SEEKERS



EVENTS AND FESTIVALS

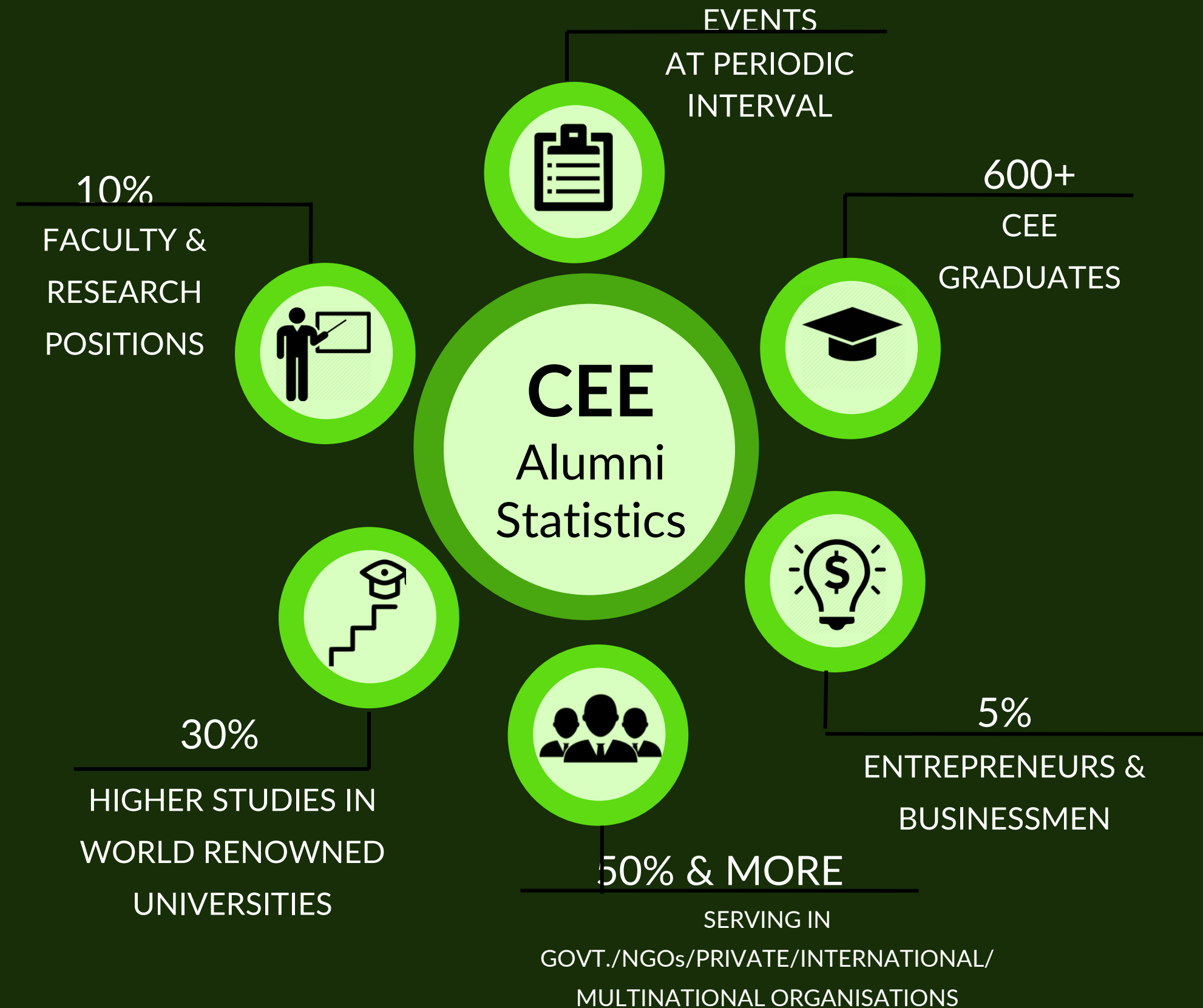
- Seminar/Workshops
- Conference
- Short Course
- Cennovation



EVENTS AND FESTIVALS

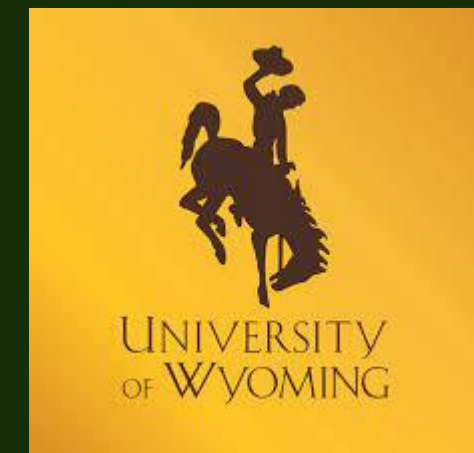
- Seminar/Workshops
- Conference
- Short Course
- Cennovation

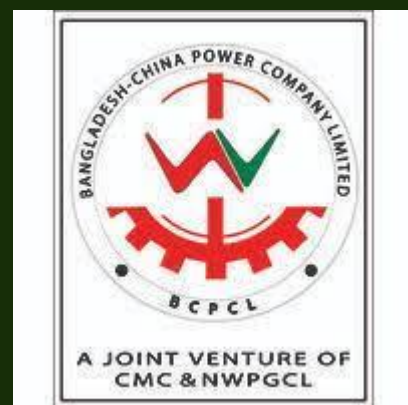






McMaster
University



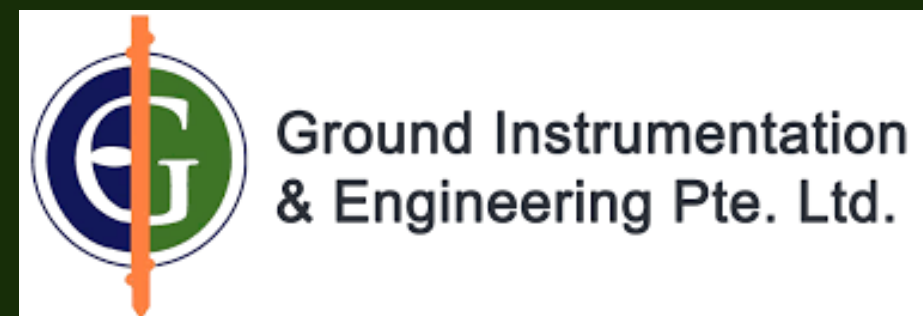


amazon



LGED

PTV GROUP





THANK YOU

<http://cee.iutoic-dhaka.edu/>