



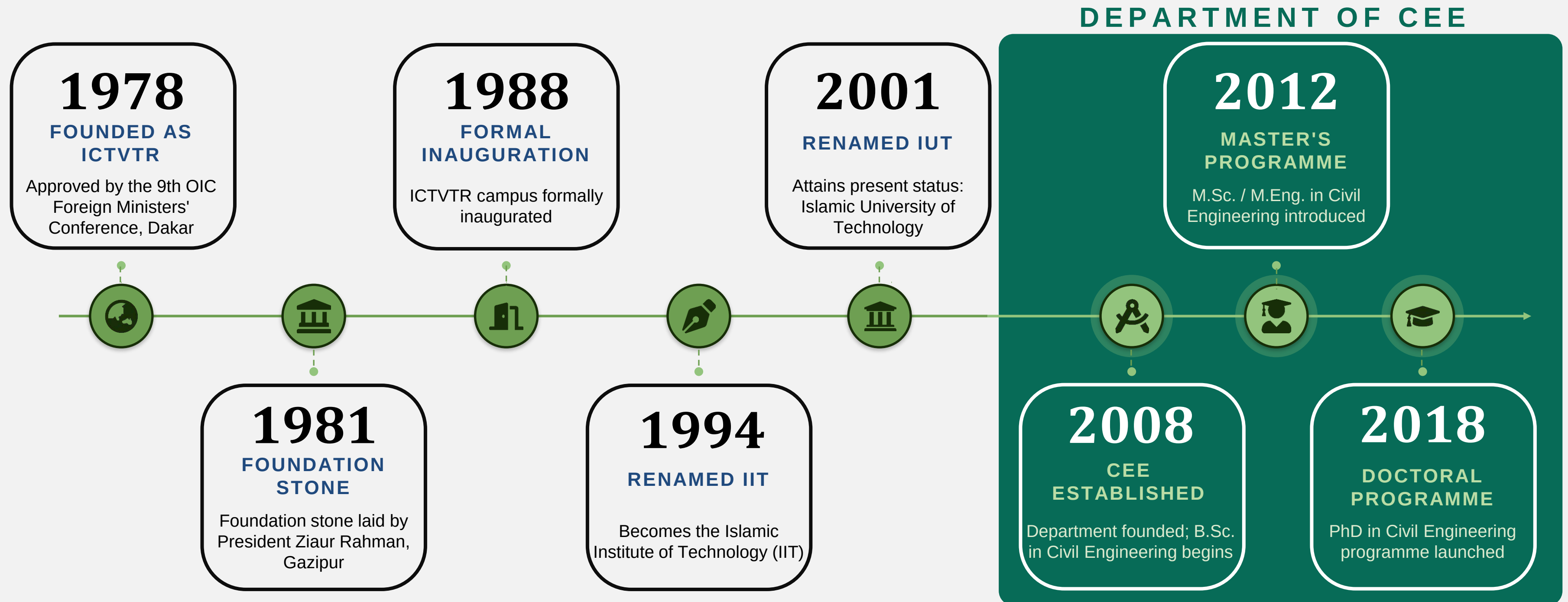
CEE ORIENTATION

For Academic Year 2025-2026



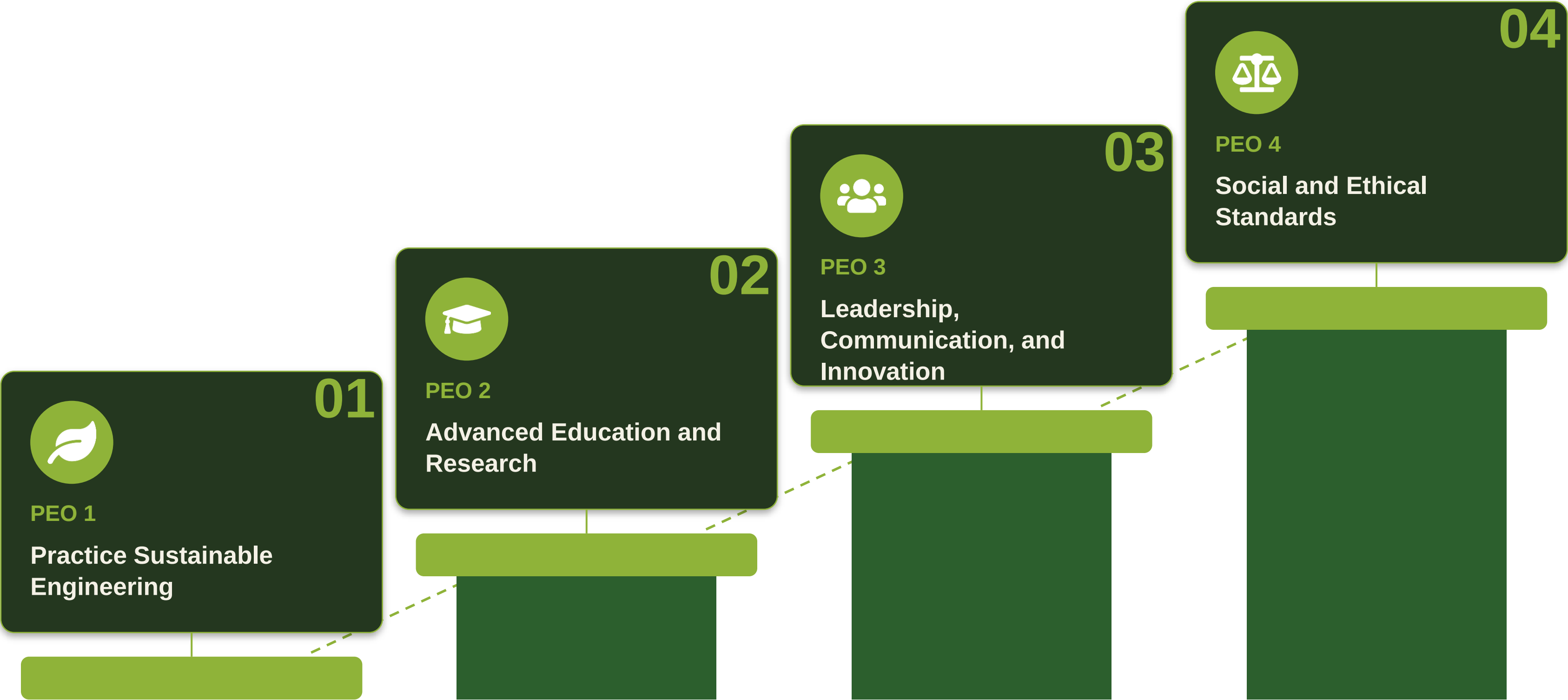
From Establishment to the CEE Department

Four decades of growth — from an OIC technical institute to the Department of Civil & Environmental Engineering



PROGRAMME EDUCATIONAL OBJECTIVES

The journey our graduates take within four years of graduation



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



GRADE A

Achieved the highest grade in the first attempt in 2017



IEB MEMBERSHIP

Graduates are eligible for IEB membership.



INTRODUCED OBE CURRICULUM

Planning to apply for BAETE Accreditation under outcome-based education.

BAETE ACCREDITATION ACHIEVEMENTS FOR DEPARTMENT OF CEE

6-year BAETE accreditation
(2023) - highest duration
awarded in Bangladesh

5-year Grade "A"
accreditation in the first
accreditation cycle (2017)

Washington Accord-
recognized B.Sc. in CE
program



The background of the slide features a photograph of a university campus. In the foreground, a body of water reflects the sky and the buildings. A large, multi-story brick building with a series of arches is visible in the middle ground. To the right, there are palm trees. The sky is filled with large, white clouds. A semi-transparent teal banner is overlaid across the middle of the image, containing the text 'FACULTY & STAFF' in white, bold, serif capital letters.

FACULTY & STAFF

AT A GLANCE

19

FACULTY
MEMBERS

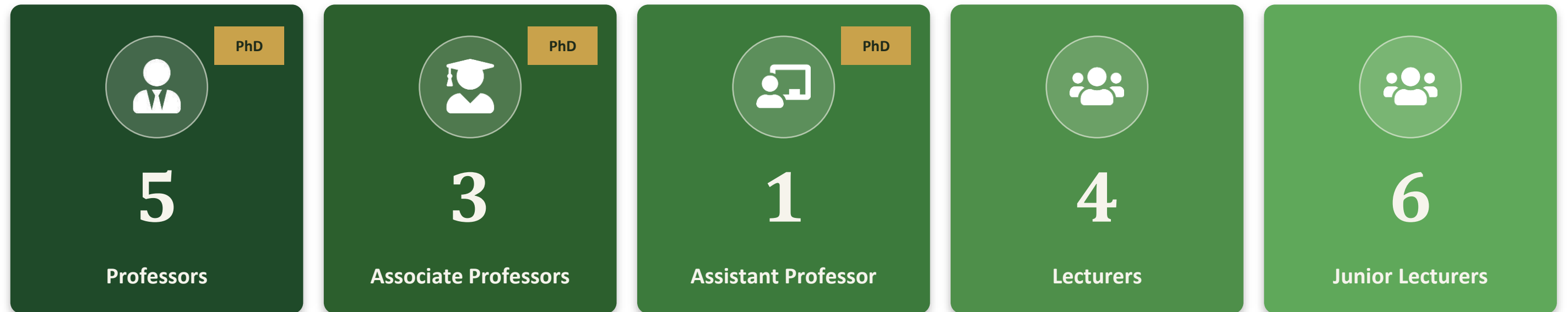
10

STAFF
MEMBERS

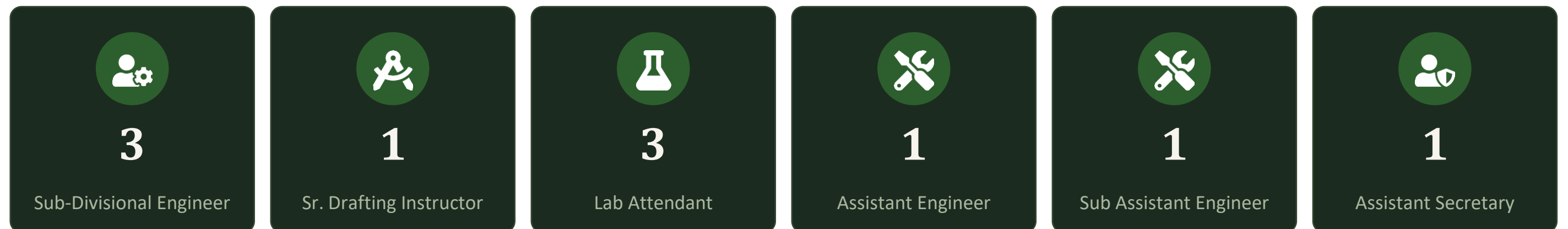
9

PhD
HOLDERS

• Faculty



• Staff



PROFESSORS' PROFILE

Dr. Shakil Mohammad Rifaat

Professor and Head



Transportation with specialization in Traffic Safety, Econometric Modelling, Transportation Planning and Deep Learning



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

Dr. Md. Rezaul Karim

Professor



Environment with specialization in Water Quality and Environmental Impact Assessment



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 Resources & Sustainable Water Systems
- ❑ Water and Wastewater Treatment & Process Engineering
- ❑ Environmental Health, Risk & Safety Assessment
- ❑ Solid Waste Management & Environmental Impact Assessment (EIA)

Dr. Md. Tarek Uddin, PEng.

Professor



Structure with specialization in Construction Material



EDUCATION

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



RESEARCH INTERESTS

- ❑ Sustainable and Recycled Aggregate Concrete Systems
- ❑ Corrosion and Durability of Reinforced Concrete Structures
- ❑ Repair, Strengthening, and Rehabilitation of Concrete Structures
- ❑ Behavior of Concrete Materials and Structures under dynamic loadings

Dr. Hossain Md. Shahin

Professor



Geotech with specialization in Tunneling



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
- ❑ Geotechnical site investigation
- ❑ Land reclamation and embankment problems
- ❑ Soil – structure interaction

Moinul Hossain, PhD

Professor



Transportation with specialization in Intelligent Transportation Systems (ITS) and planning



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

ASSOCIATE PROFESSORS' PROFILE

Dr. Nazmus Sakib, PE

Associate Professor



Transportation Engineering with specialization in Pavement Engineering



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
- ❑ Polymer Modified Bitumen
- ❑ Micromobility

Dr. Amimul Ahsan

Associate Professor



Transportation Engineering with specialization in Pavement Engineering



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. Md. Imran Kabir

Associate Professor



Structure with specialization in Steel-Concrete Composite Structures



EDUCATION

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



RESEARCH INTERESTS

- ❑ Finite Element (FE) modeling and analysis of steel-concrete composite structures.
- ❑ Stability analysis of steel structures (buckling, strength, and reliability).
- ❑ FE simulation and prediction of structural behavior under different loading conditions.
- ❑ Application of advanced computational techniques in structural engineering.
- ❑ Development, characterization, and application of FRCCs in structural engineering.

ASSISTANT PROFESSORS' PROFILE

Dr. Tanvir Ahmed

Assistant Professor



Structure with specialization in Construction Materials



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

LECTURERS' PROFILE



Anika Tahsin Nabila



EDUCATION

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



RESEARCH INTERESTS

- Environmental Engineering



Mahnaz Faiza



EDUCATION

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



RESEARCH INTERESTS

- Transportation Engineering



Maisha Hossain



EDUCATION

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



RESEARCH INTERESTS

- Transportation Engineering



Mohammad Abu Umama



EDUCATION

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



RESEARCH INTERESTS

- Geotechnical Engineering

JUNIOR LECTURERS' PROFILE



Email Haque Munmun



EDUCATION

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



RESEARCH INTERESTS

- Transportation Engineering



Naba Uddin



EDUCATION

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



RESEARCH INTERESTS

- Transportation Planning
and Safety Assessment



Fariha Maliyat Raisa



EDUCATION

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



RESEARCH INTERESTS

- Structural Engineering



S. M. Arafat Hossain



EDUCATION

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



RESEARCH INTERESTS

- Environmental Engineering



Jamiul Fawayed Piyas



EDUCATION

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



RESEARCH INTERESTS

- Environmental Engineering



Md. Aktaruzzaman Rony



EDUCATION

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



RESEARCH INTERESTS

- Structural Engineering
(Construction Material)

FACULTIES ON LEAVE

**A total of 14 faculty members (04 Assistant Professors and 10 Lecturers)
are on study leave**

STAFF PROFILE



Md. Sayeed Hasan
Sr. Asst. Secretary



Md. Nizam Uddin
Sub-Divisional
Engineer



Md. Solaiman Hossain
Sub-Divisional
Engineer



Md. Riaz Uddin
Sr. Drafting
Instructor



**Md. Mahmudunnabi
Tareq**
Asstt. Engineer



Md. Emran Khan
Sub-Divisional
Engineer



Md. Yousup Ali
Sub Assistant
Engineer



Md. Yea Baten Khan
Lab Attendant



Md. Al Amin Sheikh
Lab Attendant



Md. Shahinur Hossain
Lab Attendant

LABRATORIES & TESTING SERVICES

LABORATORY AND TESTING SERVICES

- ❑ Environmental Engineering and Hydraulics Laboratory
- ❑ Concrete and Structural Testing Laboratory
- ❑ Geotechnical Engineering Lab
- ❑ Transportation Laboratory

ENVIRONMENTAL ENGINEERING & HYDRAULICS LAB



ENVIRONMENTAL ENGINEERING & HYDRAULICS LAB



Microscope (Model: Zeiss Primo Star)



Jar Test Apparatus



Flow Channel

ENVIRONMENTAL ENGINEERING & HYDRAULICS LAB



Jet Apparatus



Center of Pressure Measuring
Apparatus



Spectrophotometer

ENVIRONMENTAL ENGINEERING & HYDRAULICS LAB



Incubator



BOD Incubator



Vertical Type Laminar Airflow
Cabinet

CONCRETE & STRUCTURAL TESTING LAB



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

CONCRETE & STRUCTURAL TESTING LAB



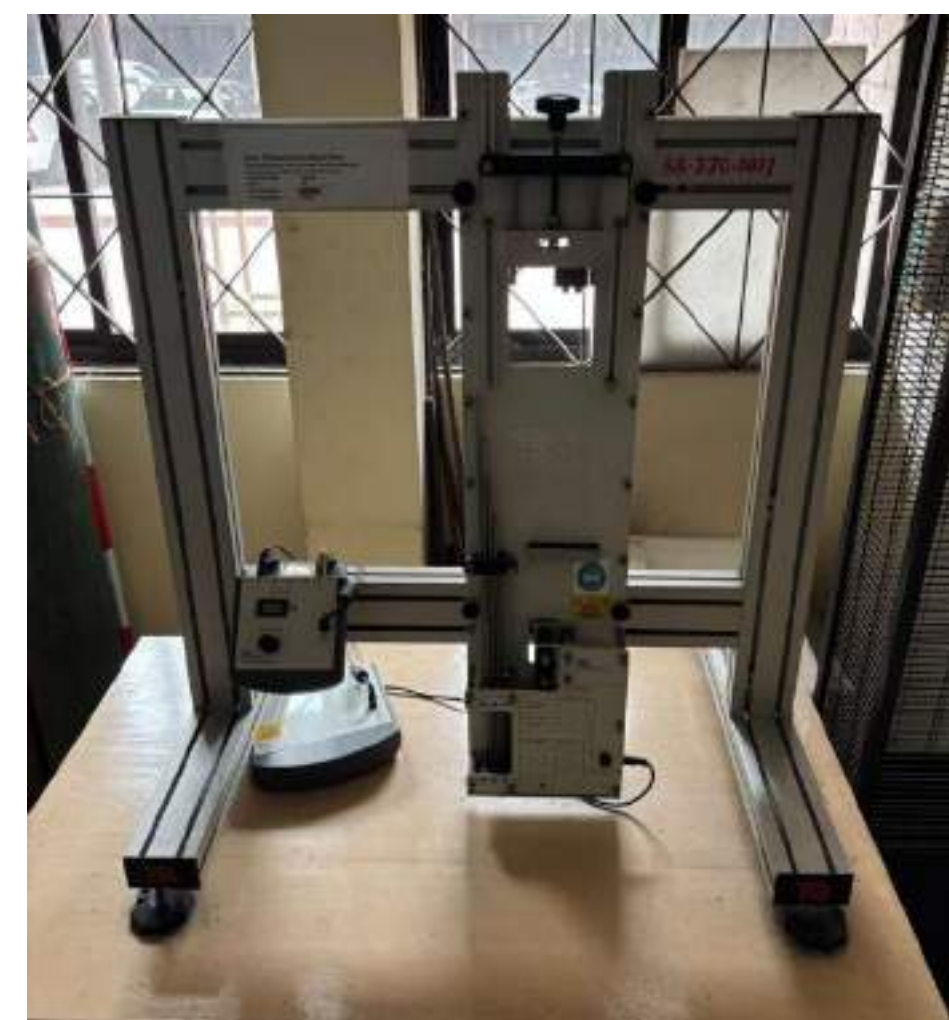
Universal Pendulum
Impact Tester



Combined frame for
compression 3000 KN
and Flexural 150 KN

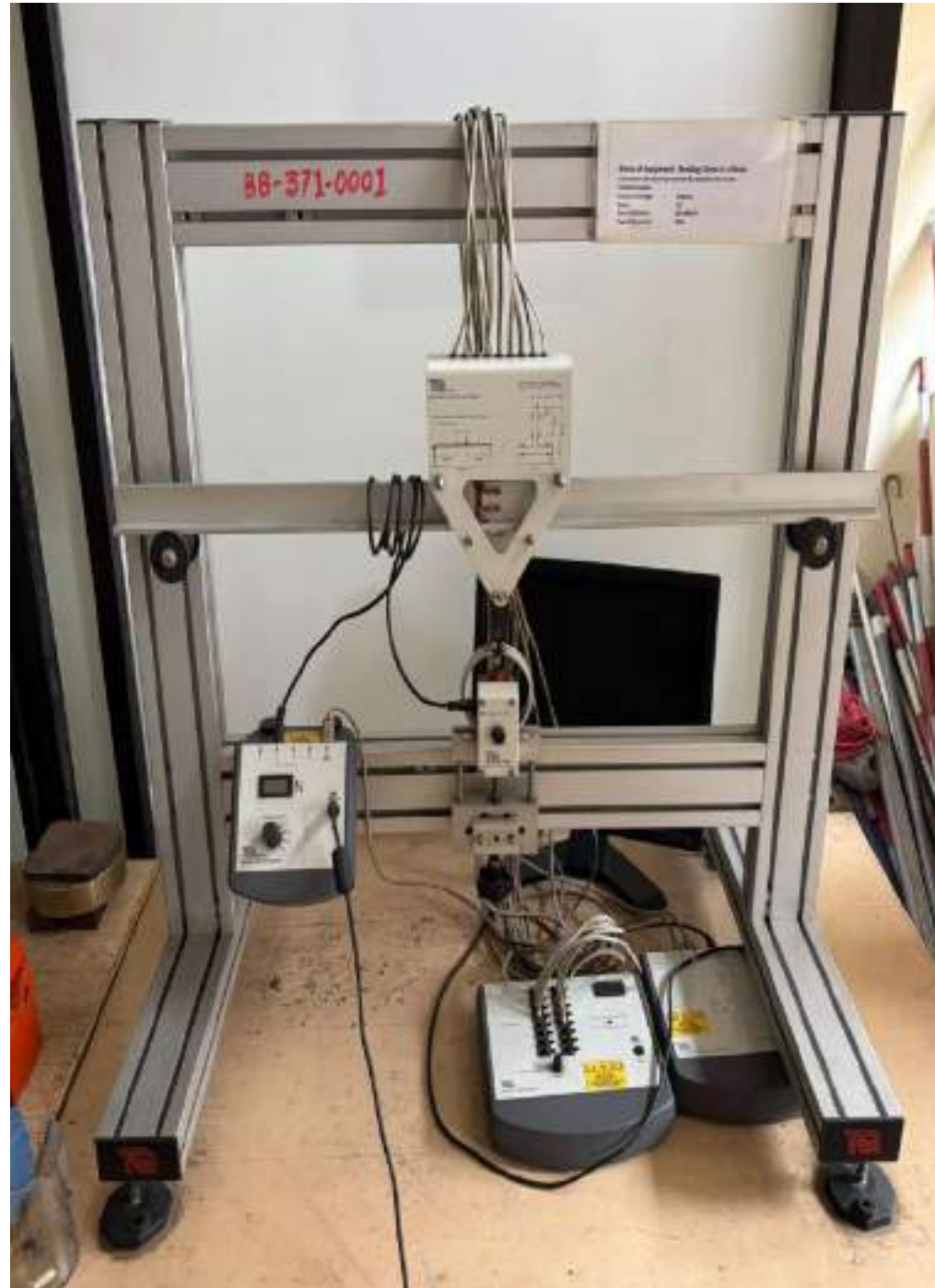


Johnson Shear Tool



Buckling of Struts

CONCRETE & STRUCTURAL TESTING LAB



**Bending Stress in a
Beam**



**Rockwell and Brinell
Hardness Tester**



**Torsion Test
Apparatus**



**Helical Spring Testing
Kit**



**Electro Magnetic Sieve
Shaker**

GEOTECHNICAL ENGINEERING LAB



GEOTECHNICAL ENGINEERING LAB



Unconfined Compression Tester



Direct Shear Apparatus



High Speed Stirrer

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



Microscopic Traffic Simulation



Bentley Cube



TRANSPORTATION LAB



Los Angeles Machine



CBR-Marshall Tester



Proctor Automatic Universal

TRANSPORTATION LAB



Asphalt Mixer Mixing Machine



Digital Sieve Shaker



Mechanical Load Applier

TRANSPORTATION LAB



Bitumen Tester

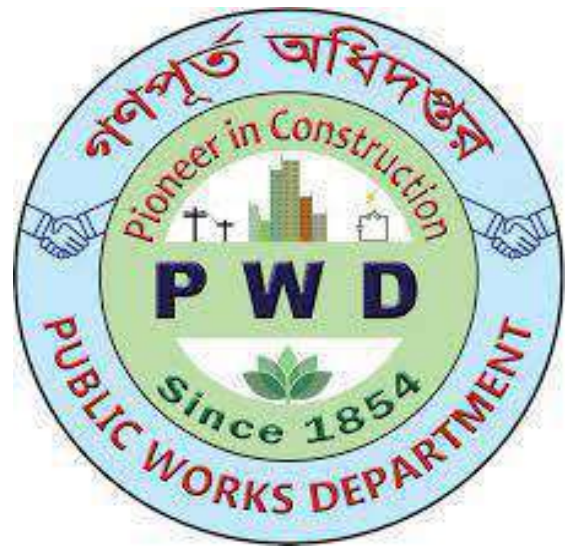


Mechanical Load Applier

TRANSPORTATION LAB



4-Week Industrial Training Programme for Final-Year Students



Roads & Highways Department,
Bangladesh

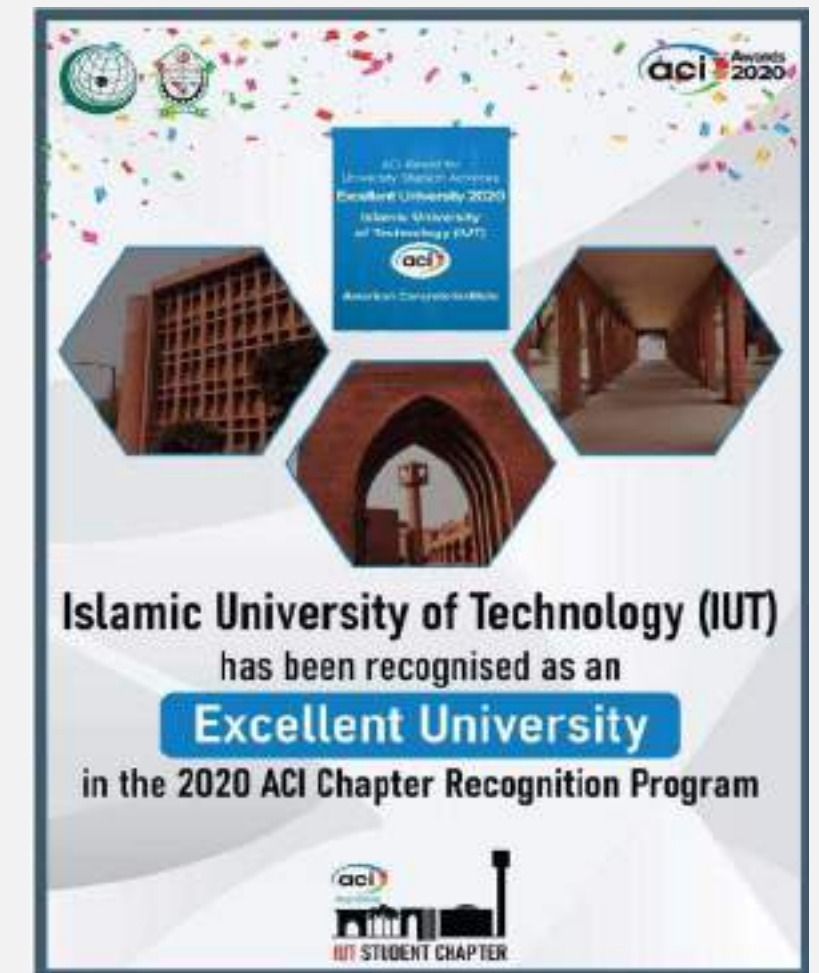


A background image showing students in a classroom working on a project. In the foreground, a large, complex bridge model made of wooden sticks and rubber bands is visible on a table. Several students are gathered around the table, looking at the model. The image is dimly lit, with a dark green horizontal band across the middle containing the text.

CO-CURRICULAR ACTIVITIES

AMERICAN CONCRETE INSTITUTE IUT STUDENT CHAPTER

- ❑ Established in 2020
- ❑ 3 times Excellent University & 3 times Outstanding University Awards
- ❑ Hosts Splice & Admixture annually
- ❑ Regular seminars, workshops & site visits



AMERICAN CONCRETE INSTITUTE IUT STUDENT CHAPTER



AMERICAN CONCRETE INSTITUTE IUT STUDENT CHAPTER



INSTITUTE OF TRANSPORTATION ENGINEERS IUT STUDENT CHAPTER

- ❑ First ITE Student Chapter in Bangladesh (Established in 2022)
- ❑ Organizes transportation software trainings
- ❑ Organizes “Speedolite”
- ❑ Featured in the ITE Journal (2024)



INSTITUTE OF CIVIL ENGINEERS IUT STUDENT CHAPTER

- ❑ Bangladesh's first ICE Student Chapter (established on 18 July, 2025)
- ❑ Successfully hosted **NovICE 1.0**
- ❑ Launched **Scholar Talks** series
- ❑ Upcoming: Seminars, CEE mentorship & industrial visits



CENNOVATION

🚩 FLAGSHIP NATIONAL ENGINEERING EVENT OF IUT CEE

A national platform for students to showcase innovation, creativity & problem-solving in civil and environmental engineering.



CENNOVATION 2026 · PRIZE-GIVING CEREMONY

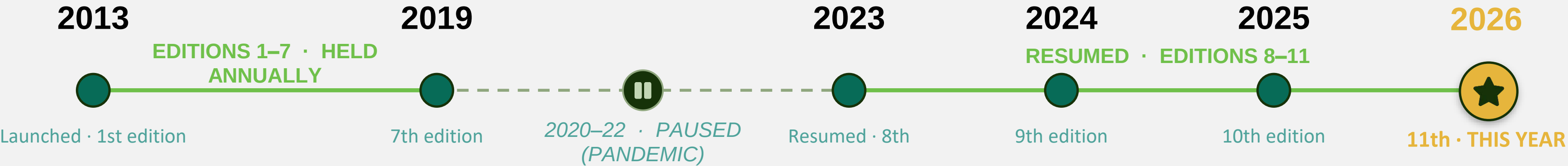
**11th**
EDITION
in 2026

**2013**
ESTABLISHED
13 years strong

**1,200+**
PARTICIPANTS
in 2026

**~30**
UNIVERSITIES
across Bangladesh

THE JOURNEY From its 2013 launch to the 11th edition in 2026



CENNOVATION 2026 • IN ACTION

The 11th Edition, In Action

From the inauguration to model-building battles, live quiz rounds, research posters, and the prize-giving finale — a single day of the flagship event.



Inauguration ceremony



Game of Trusses



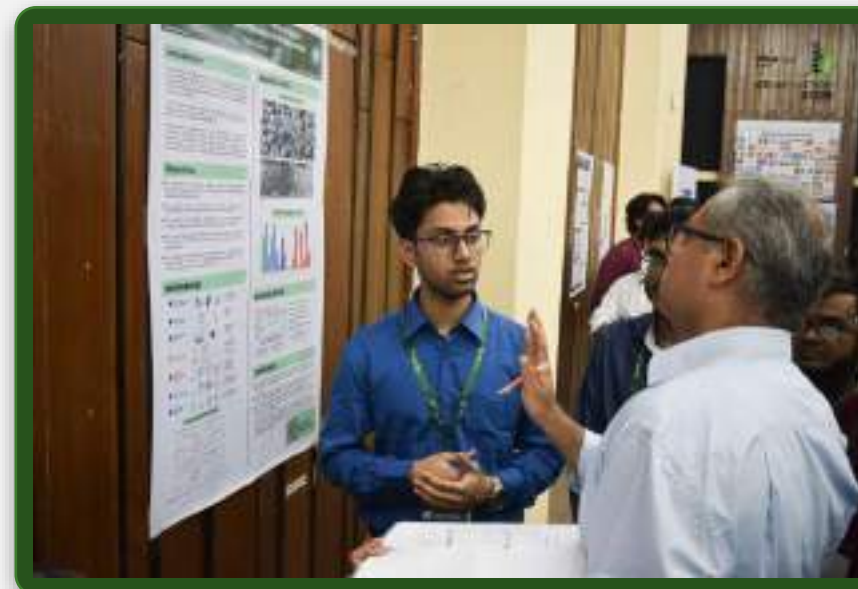
Seismic Challenge



Buzzer Master - 2nd round



Mechanics Olympiad



Poster presentation



Prize-giving ceremony



EXTRA-CURRICULAR ACTIVITIES

EXTRA-CURRICULAR ACTIVITIES

1 IUT ROBOTICS SOCIETY

2 IUT CAD SOCIETY

3 IUT AL-FAZARI
INTERSTELLAR SOCIETY

4 IUT DEBATING SOCIETY

5 IUT PHOTOGRAPHY
SOCIETY

6 IUT CAREER AND
BUSINESS SOCIETY

7 SOCIETY FOR ISLAMIC
KNOWLEDGE SEEKERS



A golden trophy cup with two handles, resting on a stack of papers. The trophy is highly reflective and sits on a dark, tiered base. The background is dark and out of focus, showing more papers and possibly other trophies. A semi-transparent teal banner is overlaid across the middle of the image, containing the text 'STUDENTS' ACHIEVEMENTS' in white, bold, serif capital letters.

STUDENTS' ACHIEVEMENTS

CO-CURRICULAR ACHIEVEMENTS



“Student Achievement Award 2026” at
the “IUT Excellence Award Ceremony
2026”

Arina Tahrin Amin (CEE'22)

**Best Paper Award: Sustainable Agriculture,
Environment & Food Security 4th International
Research Conference (IRC) 2024**

Nov 6–7, 2024

SLTC Research University

**An Analysis between Flood Damage and Economic
Growth in Bangladesh Amid Changing Precipitation
Dynamics**

Amir Uddin Ahmed (CEE'20)

Ishmam Labib (CEE'20)

Mahibur Alam Eshat (CEE'20)



***Most Creative & Innovative
Award at the Universiti Malaya
Civil Engineering Competition
(UMCvEC) 2026***

The team consisted of Ali Intisar Samin, Sadman Ahmed Sabub, Ragib Jawad Safat, Mohammad Shoaib, & Rajit Muhammad Chowdhury, under the supervision of our honorable faculty advisor - **Prof. Dr. Md. Tarek Uddin, PEng.**

CO-CURRICULAR ACHIEVEMENTS



**2 1st Runner-Up: Poster Paradox -
Celencia 2026**
by ACI & ASCE Student Chapter, BUET

Team Green Lanterns:
Sheikh Sajidul Islam (CEE'21)
Humaeid Tahsin Haque (CEE'22)
Mumtarin Zaman (CEE'22)
Supervised by Dr. Nazmus Sakib

1 Gold Medal: Mathematics
International Youth Math Challenge (IYMC) 2024

Sadman Ahmed Sabub (CEE'22)



**🏆 Champions: Crack the Case ReinforCE
1.0 – 1st National Civil Engg. Fest**
by Department of Civil Engineering, KUET

Team Low_CG_Association:
S. M. Ragib Shahriar (CEE'22)
ARM Mahmudul Hasan Mahi (CEE'22)
Mohammad Illin Rahman (CEE'22)
Shahriyar Hossain Labib (CEE'22)

CO-CURRICULAR ACHIEVEMENTS



ACI Students Chapters' Meet - 2026,
organized by ACI Student Chapter-CUET

EXTRA-CURRICULAR ACHIEVEMENTS

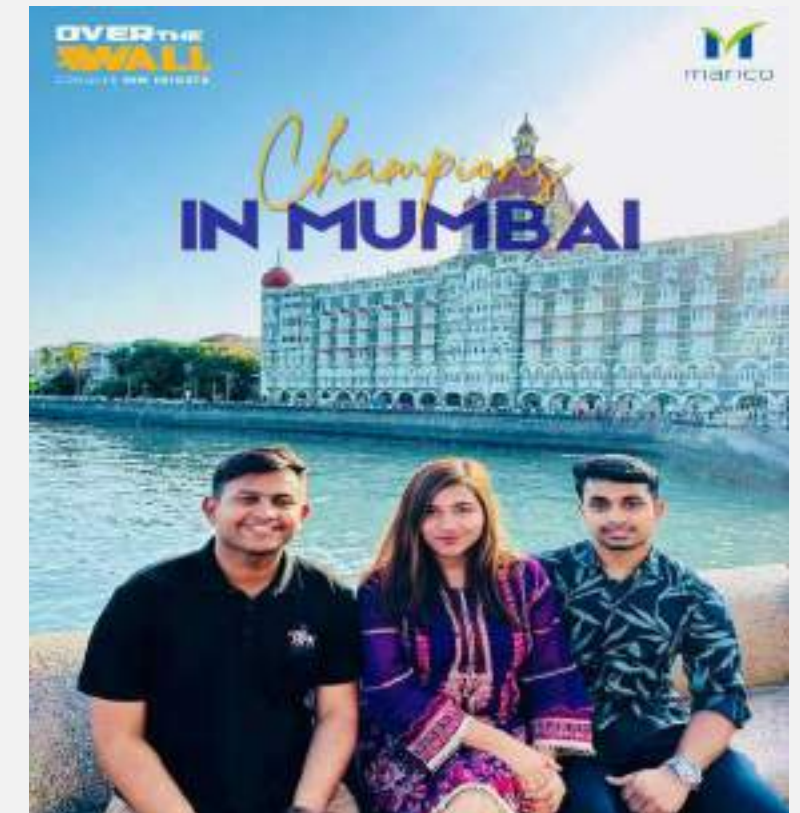


 **Scientists of the Future Award:
Astrobiological Expedition Task (ABEx)
International Rover Challenge 2024**

**Project Altair:
Sazid Rahman (CEE'19)
Nur-A-Piyas Mahbub (CEE'20)**

 **Champions: Product Innovation
& International Internship
Over The Wall Season 3 — by Marico Bangladesh**

**Team Powerpuff Girls:
Iffatun Islam Nitu (CEE'20)
+ 2 members from IUT BTM & EWU
*Beat 5,000+ participants, 1,850 teams, 33
universities***



 **Champions: Product Innovation
& International Internship
Over The Wall 2022 — by Marico Bangladesh**

**Team Sharks in Suit:
Chowdhury Sakif Ahbab (CEE'19)
Ihfaz Sindid Hassan (CEE'19)
Jafrin Rahman Nahin (CEE'19)**

SPORTS: CRICKET



- ❑ 2023 Inter-Departmental Cricket Tournament Champion 🏆
- ❑ 2024 Inter-Departmental Cricket Tournament Runner-up 🥈
- ❑ 2025 Inter-Departmental Cricket Tournament Joint Champion 🏆
- ❑ 2026 Inter-Departmental Cricket Tournament Champion 🏆

SPORTS: FOOTBALL



Champion team with the trophy of 'Red Heaven Cup' 2024

- ❑ 2024 Inter-Departmental Football Tournament Semi-finalist
- ❑ 2024 Red Heaven Inter-Departmental Football Champion 🏆
- ❑ 2025 Inter-Departmental Football Tournament Semi-finalist
- ❑ 2025 Red Heaven Inter-Departmental Football Champion 🏆
- ❑ 2026 Inter-Departmental Football Tournament Semi-finalist

SPORTS



Volleyball

- ❑ 2023 Inter-Departmental Volleyball Tournament **Runner-Up** 🥈
- ❑ 2024 Inter-Departmental Volleyball Tournament **Champion** 🏆

Table Tennis

- ❑ 2024 Intra IUT Table Tennis Tournament **Champions (Doubles)** 🏆

Lawn Tennis

- ❑ 2025 Intra IUT Tennis Tournament **Champions (Doubles)** 🏆

Badminton

- ❑ 2026 Intra IUT Badminton **Runner-up (Singles)** 🥈

Scrabble

- ❑ Naba Uddin, **Champion** 🏆 , Annual Scrabble Competition



32nd Annual Sports

- ❑ Ahashan Habib Sunny- **5000 m (1st), 1500 m (1st), 800 m (3rd), Pole vault (3rd)**
- ❑ Ahashan Habib Sunny- **Champion athlete** of the 32nd annual sports competition
- ❑ Immanuel Amin Arib- **200 m (3rd)**

33rd Annual Sports

- ❑ Immanuel Amin Arib- **100 m (1st), 200 m (1st), 400 m (3rd)**

The background of the image features silhouettes of graduates and their caps. In the upper half, three graduation caps are shown in various orientations, as if they have been tossed into the air. In the lower half, the silhouettes of several graduates are visible, with their arms raised in celebration. A horizontal teal band is positioned across the middle of the image, containing the word 'ALUMNI' in white, serif, all-caps font.

ALUMNI

50% & MORE

**Serving In Govt./NGOs/Private/International/
Multinational Organizations**

10%

**Faculty & Research
Positions**



900+

CEE Graduates

30%

**Higher Studies In
World-renowned
Universities**



5%

**Entrepreneurs &
Businessmen**

Events at Periodic Interval





amazon



PTV GROUP



WALTON



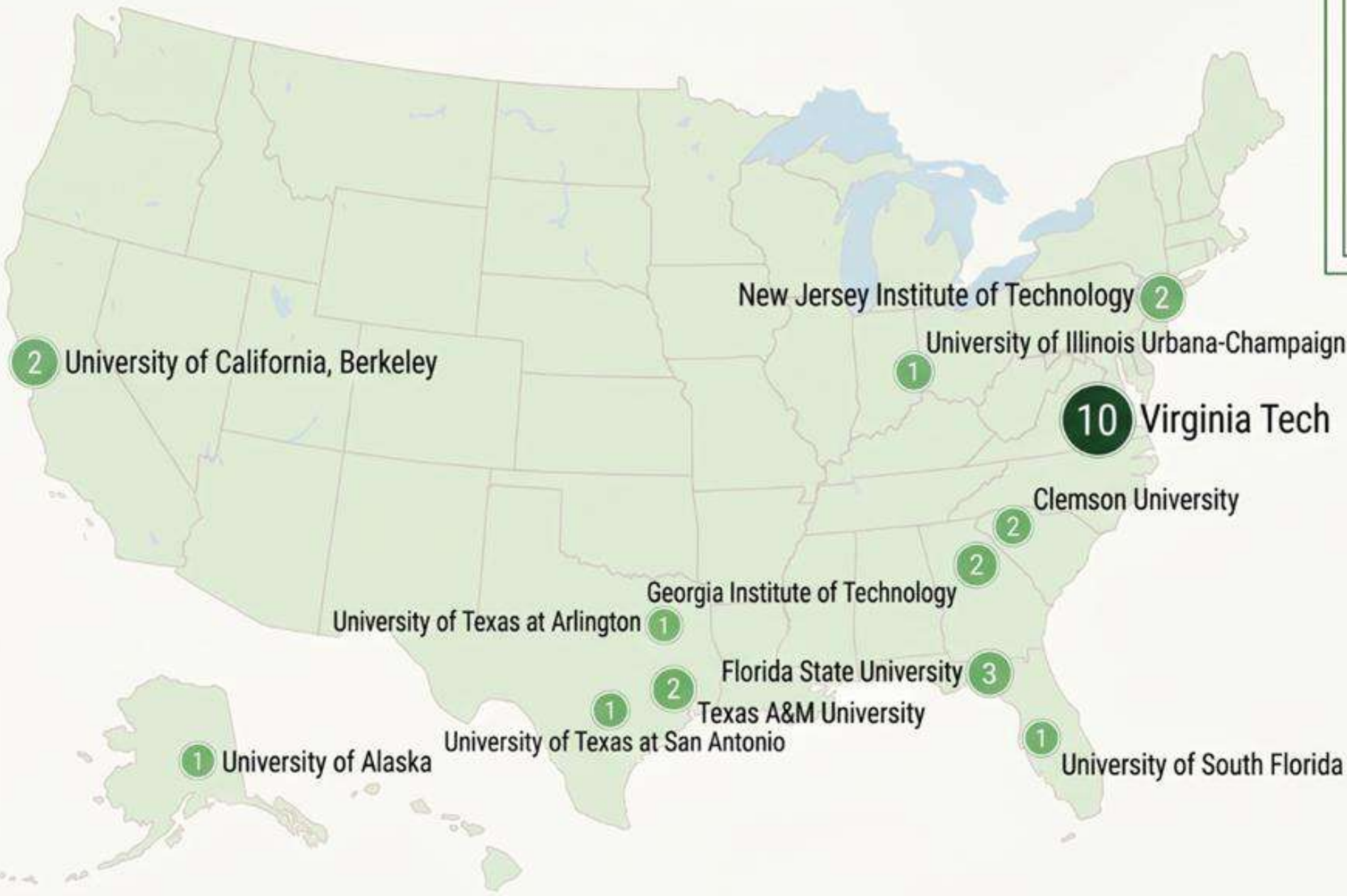
WARPO
পানি সম্পদ পরিকল্পনা সংস্থা

McDonald Steel
Forge Ahead

GLOBAL UNIVERSITY NETWORK: SUMMARY BY REGION

UNITED STATES

12 UNIVERSITIES | 27 STUDENTS



ASIA & MIDDLE EAST

3 UNIVERSITIES | 5 STUDENTS



CANADA

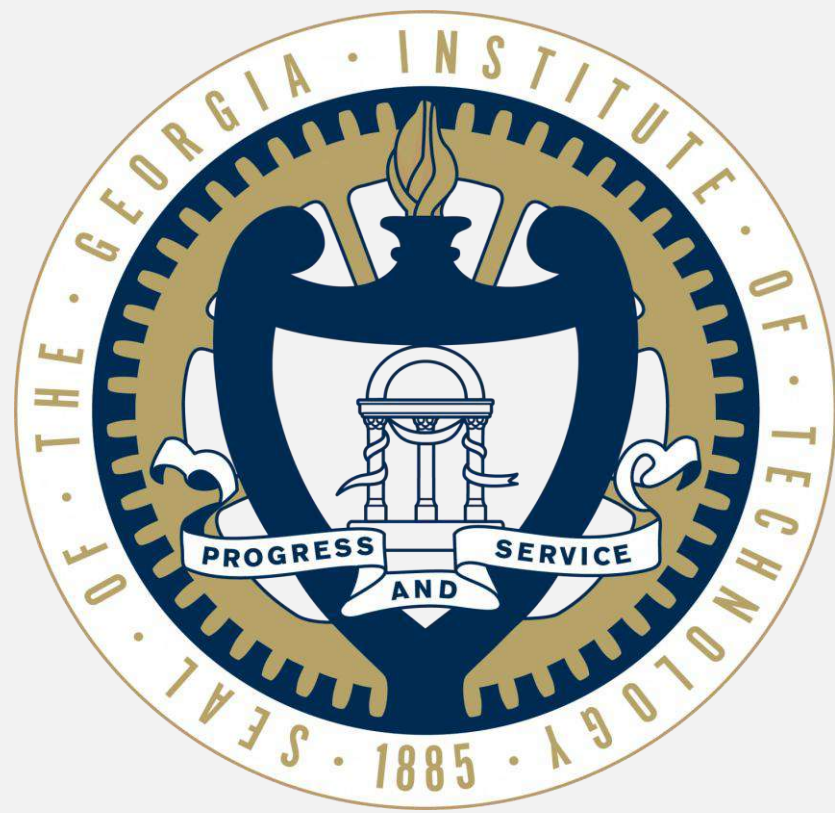
5 UNIVERSITIES | 10 STUDENTS



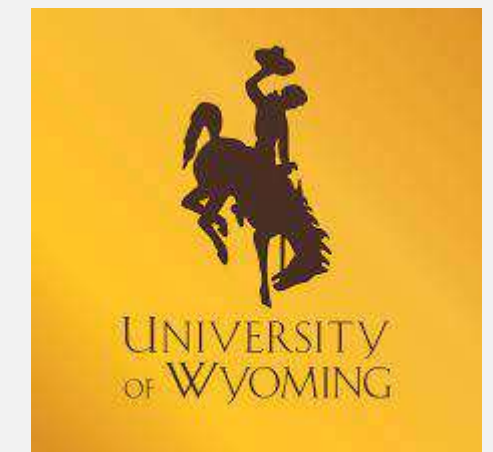
AUSTRALIA

4 UNIVERSITIES | 6 STUDENTS





McMaster
University



THANK YOU