

Short Course on

RECENT ADVANCES IN GEOTECHNICAL ENGINEERING



27-29 November 2017

Organized By
Department of Civil and Environmental Engineering
(CEE)

Islamic University of Technology (IUT)

A Subsidiary Organ of

The Organisation of Islamic Cooperation (OIC)

Board Bazar, Gazipur- 1704, Bangladesh

www.iutoic-dhaka.edu/short_course

INTRODUCTION

Islamic University of Technology (IUT), a subsidiary organ of the Organization of Islamic Cooperation (OIC), has been established with an aim to develop the vast human resources of the Member States of OIC. The objectives of the university include imparting education and training, conducting research and upgrading the manpower at different levels to international standards.

In order to achieve these objectives, IUT offers a number of regular courses at various levels leading to the award of Degrees and Diplomas in the fields of Engineering and Technologies, and Technical & Vocational Education. In addition to these core programs, the University also organizes national and international Short Courses, Seminars, Workshops, etc. to upgrade and enhance the skill and knowledge of professionals at different levels and to share technical know-how among the professionals of the Member States.

COURSE OBJECTIVES

Most of the practical designs of geotechnical structures have been conceived without consideration of the important deformation characteristics of soils such as soil dilatancy. The geotechnical engineering has entered in a new paradigm with the recent advances in understanding of the fundamental soil behavior. Numerical modeling, by means of nonlinear finite element analysis, can provide the overall information of the ground such as ground deformation, progressive failure to complete failure, stress condition of the ground that provides safe and economic design of the geotechnical structures. The content of the course focuses on the development of new techniques in designing geotechnical structures such as foundation, retaining wall, tunnel and solving other geotechnical phenomenon like slope stability, liquefaction, etc.

COURSE OUTLINE

The short course consists of the following topics:

- New Techniques in Foundation Design
- Current and Future Tunnel Projects in Bangladesh
- Slope Stability Problem and its Solutions
- Green Technology for Sustainable Slope Protection
- Solution of Earth Retaining Structures
- Earthquake and Soil Liquefaction
- In-situ tests of Soil
- Modern Technologies in Pile tests
- Numerical Simulations in Bearing Capacity and Retaining wall Problems
- Numerical Simulations in Tunneling and Slope Stability Problems

MEDIUM OF INSTRUCTION

The medium of instruction for the short course will be English.

NO. OF PARTICIPANTS

The total number of participants is limited to 30.

PROSPECT BENEFICIARY

The 3-days intensive short course is designed for engineers and managers involved in any civil engineering works, graduates and postgraduates students in Civil Engineering and Geotechnical Engineering. It is also suitable for designers and professionals for accomplishing safe and economic design of underground structures. Researchers, professionals and teachers of Civil Engineering Department interested on critical state soil mechanics and recent technologies of geotechnical engineering, will be benefited from this short course.



Time, Venue and Climate

- The short course will be held from **27-29 November, 2017**
- It will be held in the premises of IUT campus at Board Bazar, Gazipur, Bangladesh. Additional information on IUT campus is available at the website www.iutoic-dhaka.edu
- The weather during November-December is generally mild and the temperature ranges from 18° to 27°C

Application Procedure

The intending participants should be nominated by the respective authority or government. The participants may also apply directly by sending the filled out registration form to the short course coordinator or through online portal on or before **30 October, 2017** (International participants) and **15 November, 2017** (Local participants).

Registration Fees & Facilities

The registration fee for the short course is **Tk. 5000** for local participants and **US\$ 200** for foreign participants. For all the participants the university will provide course materials and hospitality which include local transport, furnished accommodation and food at IUT.

Visa Requirements

Rules of the Government of Bangladesh will be applied for visa processing to enter into Bangladesh. For further inquiry regarding visa, please contact **Md. Nahidul Islam Prodhan** (Assistant Protocol Officer, IUT)

E-mail

n.islam@iut-dhaka.edu

protocol@iut-dhaka.edu/ Cell: +880-1717138354

Chief Patron

Prof. Dr. Munaz Ahmed Noor

Vice Chancellor, IUT

Course Officials & Resource Persons

- **Prof. Dr. Md. Tarek Uddin**
Head, Department of CEE, IUT
- **Prof. Dr. Hossain Md. Shahin**
Course Co-ordinator
Department of CEE, IUT
- **Dr. Tahmeed Malik Al-Hussaini**
Professor
Department of CE, BUET
- **Dr. Mohammad Shariful Islam**
Professor
Department of CE, BUET
- **Engr. Md. Shamsul Islam**
Managing Director
Prosoil Foundation Consultant

Contact Address

All inquiries concerning the Short Course should be addressed to:

Prof. Dr. Hossain Md. Shahin

Course Co-ordinator
Department of CEE
Islamic University of Technology
Board Bazar, Gazipur- 1704, Bangladesh.
E-mail: shahin@iut-dhaka.edu
Cell: +880-1871-366582
Tel: (880-2)-9291254-59 ext-3367
Fax: (880-2)-9291260

REGISTRATION FORM

Registration can be done by filling
this form or through online portal
Online Portal: www.iutoic-dhaka.edu/short_course

Name

Designation

Organization

Contact Address with Phone no. & Email

Method of Payment

For local participants

PAY ORDER/CHEQUE IN FAVOR OF
Islamic University of Technology
Account No. **4018-085407-430**

For foreign participants

FCAD Account No. **4004 -099724 -030**

AB Bank Ltd.

Motijheel Branch, 8, Rajuk Avenue,
Dhaka, Bangladesh.

Tel: 9563011-5, 9556077, 9555586
SWIFT CODE: **ABBLBDDH 004**