

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



Short Course on

## Waste-to-Energy Technologies for Sustainable Municipal Solid Waste Management

June 29- July 1, 2022



Organized

By

Department of Civil and Environmental Engineering (CEE)

Islamic University of Technology (IUT)  
Board Bazar, Gazipur, Bangladesh

A subsidiary organ of the  
Organisation of Islamic Cooperation  
(OIC)

<http://www.iutoic-dhaka.edu>  
<https://cee.iutoic-dhaka.edu/news/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 update the skill and knowledge of professionals at different levels and to share technical know-how among the professionals of the Member States.

### Course Objectives

Municipal Solid Waste (MSW) management is becoming one of the most challenging tasks for developing countries. MSW management in developing countries is mostly traditional (open dumping), which cause public health risk and threat for environment. Therefore, modernization of MSW management is urgently required. Mounting land scarcity issue around the world makes the Waste-to-Energy strategy for MSW management in urban areas as a promising option, because this not only reduces the land pressure and public health problems, but also generates electricity, heat and green jobs. The course aims at updating delegates in the most recent Waste-to-Energy technologies. This course provides both technical personnel and decision makers in the field an extensive overview supported by updated reference materials.

### Course Outline

This course will cover the following topics:

- Municipal Solid Waste management in developing countries: An overview
- Municipal Solid Waste management options
- Municipal Solid Waste characterization
- Waste-to-Energy options
  - Incineration
  - Anaerobic digestion
  - Gasification
  - Pyrolysis
  - Refuse-Derived Fuel (RDF)
  - Sanitary landfill with biogas and power generation

### Medium of Instruction

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

### No. of Participants

The total number of participants is 30.

### Prospective Beneficiaries

The 3-days intensive short course is meant for engineers and managers involved in MSW management in different city corporations, municipalities, NGOs and INGOs/international organizations/projects. Faculties of Engineering Departments, researchers and professionals, graduate and postgraduate students in engineering and science will be benefitted from this short course.

### Time

The short course will be held from **June 29 to July 1, 2022.**

### Venue and Climate

It will be held in the premises of IUT campus at Board Bazar, Gazipur, Bangladesh. The weather during June is generally rainy, and the temperature ranges from 26 to 32°C. Additional information on the IUT campus is available at the website [www.iutoic-dhaka.edu](http://www.iutoic-dhaka.edu).

### Application Procedure

The intending participants should be nominated by the respective authority/government. Participants may also apply directly by sending the filled up and scanned registration form to the email ([shortcourse.cee@iut-dhaka.edu](mailto:shortcourse.cee@iut-dhaka.edu)) with the subject line "Short Course Registration" or through online portal by **June 24, 2022 (Local Participants)** and **May 29, 2022 (International Participants)**.

### Registration Fees and Facilities

The registration fee for the short course is Tk. 8,000 for local participants and US\$ 200 for international participants. For all the participants the university will provide course materials, certificates and food. On-Campus accommodation will be arranged upon necessity and availability.

### Visa Requirements

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

Email: [protocol@iut-dhaka.edu](mailto:protocol@iut-dhaka.edu)  
Contact: +880-1717138354

### Chief Patron

Prof. Dr. Mohammad Rafiqul Islam  
Vice Chancellor, IUT

### Patron

Dr. Omar Jah  
Pro Vice Chancellor, IUT

### Course Officials and Resource Persons

**Prof Dr. Md. Rezaul Karim**  
Dean, Faculty of Science and Technical Education (FSTE), IUT

**Prof. Dr. Hossain Md. Shahin**  
Head, CEE, IUT

**Prof. Dr. Md. Sahadat Hossain**  
Director  
Solid Waste Institute for Sustainability (SWIS)  
The University of Texas at Arlington, USA

**Prof. Dr. Md Zahangir Alam**  
International Islamic University Malaysia, Malaysia

**Dr. Abul K. Azad**  
Universiti Brunei Darussalam, Brunei

**Dr. Tariq Bin Yousuf**  
Additional Chief Engineer (PRL)  
Dhaka North City Corporation, Dhaka

**Waste Management Expert (National)**  
JICA Technical Cooperation Team

**Dr. Amimul Ahsan**  
Asst. Prof., CEE, IUT

**Nafisa Islam**  
Lecturer, CEE, IUT

**Daud Nabi Hridoy**  
Lecturer, CEE, IUT

**Md. Habibur Rahman Bejoy Khan**  
Lecturer, CEE, IUT

**Tahsina Alam**  
Lecturer, CEE, IUT

**Fuad Bin Nazrul**  
Lecturer, CEE, IUT

**Md. Rifat Hossain Bhuiyan**  
Lecturer, CEE, IUT

### Contact Information

**Prof. Dr. Md. Rezaul Karim**  
Course Coordinator, CEE, IUT  
Email: [rezaulmd@iut-dhaka.edu](mailto:rezaulmd@iut-dhaka.edu)

**Dr. Amimul Ahsan**  
Asst. Prof., CEE, IUT  
Email: [aa@iut-dhaka.edu](mailto:aa@iut-dhaka.edu)  
Board Bazar, Gazipur-1704, Bangladesh  
Tel: +880-1701300721  
Fax: +880-2-9291260  
Email: [shortcourse.cee@iut-dhaka.edu](mailto:shortcourse.cee@iut-dhaka.edu)

### Registration Form

Please fill up this form and send a scanned copy along with payment slip to the email with the subject line "Short Course Registration".

Email: [shortcourse.cee@iut-dhaka.edu](mailto:shortcourse.cee@iut-dhaka.edu)

Name

Designation

Organization

Email

Phone No

Contact Address

Also available online:

<https://forms.gle/PT1Ys9YDpwZtQA8w9>

Method of Payment

**For Local Participants**  
Pay Order/Cheque in Favor of  
**Islamic University of Technology**  
Account No: 4018-085407-430

**For International Participants**  
FCAD Account: 4004-099724-030  
AB Bank Ltd  
Motijheel Branch, 8, Rajuk Avenue, Dhaka,  
Bangladesh.  
Tel: 9563011-5, 9556077, 9555586  
**SWIFT CODE: ABLBDDH 004**

