



**INDIAN INSTITUTE OF TECHNOLOGY DELHI**  
**(TEQIP-III Sponsored Short Course)**  
**Flyash Management for Thermal Power Plants**



**Organized by:**  
**Industrial Tribology, Machine Dynamics and Maintenance**  
**Engineering Centre (ITMMEC), IIT Delhi, New Delhi-110016**

**May 22<sup>nd</sup> – 25<sup>th</sup>, 2018**

**Coordinated by:**  
**Prof. V. K. Agarwal, ITMMEC**

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**About IIT Delhi**

IIT Delhi is one of the premier institutions in India created as centers of excellence for training, research and development in science, engineering and technology in India. HRH Prince Philip, the Duke of Edinburgh, laid the foundation stone of the Institute on January 27, 1959. Established as College of Engineering in 1961, the institute was later declared as an Institution of National Importance and renamed "**Indian Institute of Technology Delhi**" in 1963. The Institute has made a notable mark in higher technical education and research. The Institute celebrated its Golden Jubilee Year during 2010-2011. **Globally, as per the QS University Ranking 2018, IIT Delhi stands 64<sup>th</sup> in the list of Engineering and Technology discipline.**



IIT Delhi is situated at Hauz Khas in South Delhi. Well connected to the major city centers by open and wide roads, the Institute campus is about 19 km away from the Delhi Main Railway Station, 14 km from the New Delhi Railway Station, 21 km from the Inter-State Bus Terminal and 10 km from Terminal 1 of Delhi Airport.

**Course Objective**

The objective is to provide knowledge about various aspects of flyash management for the thermal power plants. The power plants in the country generate close to 170 million tons flyash every year. This poses a great challenge to the power plant engineers and managers to ensure its utilization and safe disposal. The course will cover various aspects of flyash handling, transportation, utilization and safe disposal.

**Course Content**

- ❖ Pneumatic conveying technology for dry flyash conveying.
- ❖ Slurry transportation of flyash including high concentration slurry.
- ❖ Geotechnical properties of coal ash.
- ❖ Ash pond and mounds design and management.
- ❖ Utilization of flyash in building materials.
- ❖ Flyash in concrete.

**Course Module**

The course will consist of lectures by IIT Delhi faculty members and guest speakers from industry or academia. Participants will visit the laboratory facilities which would cover the pneumatic conveying pilot plants used for design of

dry flyash conveying systems, slurry conveying pilot plant to generate design data for high concentration slurry transportation and building materials laboratory for application to the construction industry.

### **Course Faculty**

The following speakers will deliver the lectures during the course:

1. Prof. S. N. Singh, Department of Applied Mechanics, IIT Delhi
2. Prof. Manoj Datta, Civil Engineering Department, IIT Delhi
3. Prof. B. Bhattacharjee, Civil Engineering Department, IIT Delhi
4. Prof. V.K. Agarwal, ITMMEC, IIT Delhi

### **Target Audience**

The course is designed for the faculty member in TEQIP-III institutes under the quality circle of IIT Delhi and other IITs. The PhD students of the quality circle institute may also participate. Selection of 30 TEQIP participants will be done on their background and interest in the subject.

### **Boarding and Lodging**

Boarding and lodging facilities will be provided as per the TEQIP-III norms to the selected candidates of the approved Quality Circle Institutions in the IITD Guest House/Hostel on sharing basis or in the nearby hotels. However, due to a limited number of rooms in the guest house the allotment will be on first-come, first-served basis.

### **Important Dates:**

The last date for the receipt of duly filled application form is **05.05.2018** and the Intimation of selection: **14.05.2018**

### **Registration Form**

#### ***Flyash Management for Thermal Power Plants***

During May 22<sup>nd</sup>- 25<sup>th</sup> 2018

1. Name: \_\_\_\_\_

2. Designation: \_\_\_\_\_

3. Department: \_\_\_\_\_

4. Organization: \_\_\_\_\_

5. Address for communication: \_\_\_\_\_

Tel: \_\_\_\_\_ Mobile: \_\_\_\_\_ Email: \_\_\_\_\_

Accommodation required: Yes / No

Signature of the candidate:

Signature & Seal of HoD/Principle/Registrar:

Date:

Date:

### **Course Management**

#### **Prof V. K. Agarwal**

#### **(Course Coordinator)**

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#### **Address for Application Submission:**

#### **Mr. Ashwani – Project Officer**

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