



DEPARTMENT OF MINING MACHINERY ENGINEERING  
IIT(ISM) Dhanbad-826004

Brochure  
Training Course  
On

**COAL WASHERIES-EQUIPMENT & PRACTICES**  
**(9<sup>th</sup> October – 11<sup>th</sup> October, 2017)**

**Preamble:** The mined coal is not uniform in their composition of constituents and sizes. Various processes are needed to obtain the coal of desired size, grade and quality. Coal washing is a process of separation mainly based on differences in specific gravity of coal and associated impurities like sand, ash etc. The course will deal theoretical and practical aspects of coal washing processes and equipment. It will focus on coal preparation and sampling, analysis; sizing; size reduction; screen plant control; maintenance, safety and advancement in technology.

**Course content:** The course content will cover the areas of coal beneficiation like (a) Sample Preparation – drying, dewatering, and mixing of samples; (b) Comminution – rock size reduction by crushing and grinding; (c) Size classification – screening, de-sliming, cycloning; (d) Gravity concentration – separation exploiting the differences in specific gravity of minerals via the use of centrifugal concentrators; (e) Froth flotation techniques; (f) Magnetic separation; (g) Jigs and Thickeners; (h) Maintenance practices; (i) Safety and environmental issues; (j) Up-gradation of technology.

**Participants:** Process and Maintenance Engineers from coal washeries/ coal beneficiation plants.

**Date and venue:** 9<sup>th</sup> October – 11<sup>th</sup> October, 2017; Venue: EDC, IIT (ISM) Dhanbad-826004.

➤ **Course fee:** ₹ 28,000/- (inclusive of all taxes) per participant. The course fee includes course kit, refreshment, lodging and boarding (Single Share AC accommodation) expenses.

**Nominations:** Nominations for the course may please be sent to the undersigned latest by **30<sup>th</sup> September, 2017** and the course registration fee may be paid through (1) Demand Draft/ Cheque in favour of '**Registrar, Indian Institute of Technology (Indian School of Mines), Dhanbad**' payable at **Dhanbad** (b) Online Transfer. The detail of online transaction may please be intimated to the undersigned.

Bank details for online transaction:

Name of the Bank: Canara Bank  
Branch Name: Saraidhela, Dhanbad  
A/C No.: 0986101009746 (Savings)  
Account Holder Name: Registrar, IIT(ISM), Dhanbad  
IFSC Code: CNRB0000986  
MICR Code: 826015003

**NOTE:** IIT(ISM), Dhanbad is exempted from any tax deduction at source under section 10 (23C) (iii ab) of income tax act 1961.

**Course Co-ordinators:**

The detail of nominations and payments to be intimated to coordinators in the address mentioned below before **30<sup>th</sup> September, 2017:**

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