



Lahore: 22-23 April, 2019

Two days training workshop entitled “Engineering Design & Analysis of Embankment Dams” was conducted by the Centre of Excellence in Water Resources Engineering (CEWRE), UET Lahore, started from on Monday, 22nd of April, 2019 and end on Tuesday, 23rd of April, 2019. This workshop consists of specific lectures and hands-on work. The lectures are demonstrated in specific design features for the embankment dams like the zoning, camber and crest details, filter design, some basics of the CFRD and introduction of practical seepage control features for the ECRD and CFRD.

The hands-on training focused on two aspects:

1. Fetch and freeboard computations.
2. Comparative numerical model tutorials for seepage and stability analyses.

In this workshop the young and mid-career engineers involved in design and development of dam projects & post graduate students of Water Resources Engineering, Hydropower, Hydraulic & Irrigation, Hydrology, Geotech & Water Resources Management, also involved. An overview and working knowledge of engineering design of Embankment Dams and to carry out their seepage & stability analysis, was delivered on the completion of workshop.

The Main Resource Persons were Dr. Zaheer M. Malik, Director Projects (Design & Studies), Pakistan Engineering Services (Pvt.) Ltd. and Dr. Muhammad Kaleem Sarwar, Assistant Professor, CEWRE, UET, Lahore.

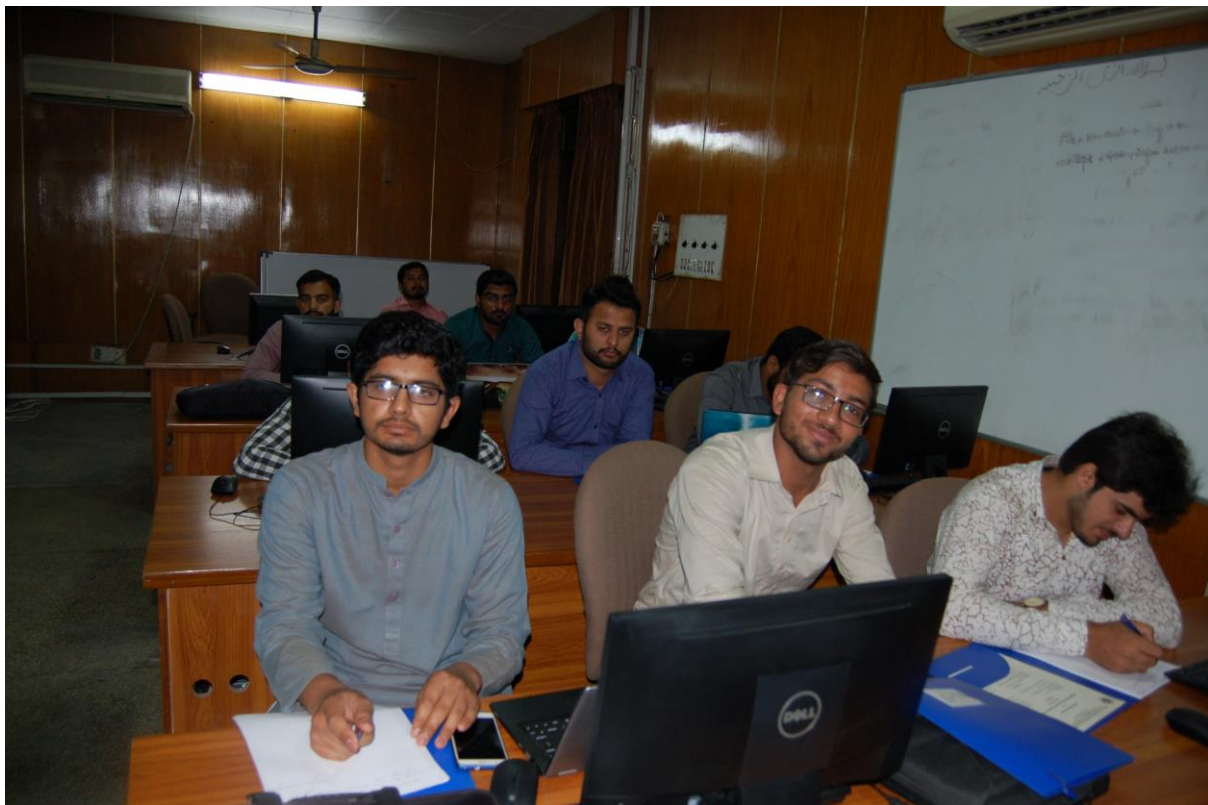
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Series of Trainings on
Water Resources & Hydropower Engineering

“Engineering Design and Analysis of Embankment Dams”

Course Details:

The Two days Training Workshop on Engineering Design and Analysis of Embankment Dams consist of specific lectures and hand on work. The lectures will demonstrate specific design features for the embankment dams like the zoning, camber and crest details, filter design, some basics of the CFRD and introduction to practical seepage control features for the ECRD and CFRD. The hand on training will be focused on two aspects; (1) fetch and freeboard computations, (2) comparative numerical model tutorials for seepage and stability analyses.

Target Participants:

Young and mid-career engineers involved in design and development of dam projects & post graduate students of Water Resources Engineering, Hydropower, Hydraulic & Irrigation, Hydrology, Geotech & Water Resources Management.

Workshop Outcome:

Upon completion, the participant will be able to get an overview and working knowledge of engineering design of Embankment dams and to carry out their seepage & stability analysis.



Resource Person:

-Dr. Zaheer M. Malik
Director Projects (Design & Studies)
PAKISTAN ENGINEERING SERVICES (Pvt) Ltd.
-M. Kaleem Sarwar
PhD (Civil Engg.)
Assistant Professor, CEWRE UET, Lahore

For Registration:

Register yourself online at
<https://forms.gle/RKy11B1ETE4NfqfJA>
before April 18th, 2019

For Query: **Zain Nabi Khan**

📞 **03331610929**

✉️ **cewre.media@gmail.com**



April 22-23, 2019 (Tentative)

Registration Deadline: **April 18th, 2019**

Fee: Professionals: 2000, UET Students: 500
CEWRE Students: 300

Seminar hall, Center of Excellence in Water Resource Engineering

UET, G.T Road Lahore, 042-99250257-58