



Engineering Staff College of India
Autonomous Organ of The Institution of Engineers (India)
Old Bombay Road, Gachi Bowli, Hyderabad – 500 032. TS, India

WATER RESOURCES DEVELOPMENT DIVISION

Continuing Professional Development Programme on
**Dam Safety Guidelines – Monitoring and Protection
Measures and Emergency Action Plan**
18 – 20 May, 2026



(An ISO 9001:2015 Certified, AICTE & CEA Recognized Institution)

Centre for Promotion of Professional Excellence

INTRODUCTION

There are about 5334 completed large dams in India (as per National Register of Large Dams 2019). The dams which were constructed long back with the data, design and construction technologies available at that time are to be reviewed in view of the changes in the hydrological inputs, latest design parameters and other technological advancements in terms of Dam Safety Bill and necessary steps are to be taken to sustain the safety of the dams.

To reduce the risk of dam failure, regular inspections, effective instrumentation, and diligent monitoring are needed to identify potential problems and take corrective actions to remedy those deficiencies before serious consequences develop. Regular operation and maintenance as well as thorough and consistent inspection must be practiced throughout the lifetime of a dam. Special inspections may need to be performed to resolve specific concerns or conditions at the site on an unscheduled basis. Special inspections are not regularly scheduled activities, but are usually made before or immediately after the dam or appurtenant works have been subjected to unusual events or conditions.

The Dam Safety Bill clearly indicated the institutional mechanism at Central and State level detailing their duties and functions to be discharged by them including the obligation for emergency action plan and disaster management. EAPs provide a mechanism for coordination among all the agencies and defines their roles and responsibilities and the actions to be taken to minimize loss of life and damage to environment and property.

Prevention of failures is always appreciated which saves the community from loss of human life, livestock as well as property in addition to intangible grief and distress.

OBJECTIVES

The proposed training programme aims at updating the knowledge and enhancing the skills of the in-service engineers / managers in ensuring the Safety of Storage dams and other huge water related structures in a systematic manner and also developing and implementing the emergency action plan for dams.

COURSE COVERAGE

- Safety of Dams and Dam Safety Guidelines.
- Dam Safety Act, 2021
- Hydrological Review of Dam Safety – Computation of Probable Maximum Flood
- Structural Reviews of Masonry and Concrete Dams
- Structural Review of Rock-fill and Earth Dams
- Seismic Evaluation of Dam and Instrumentation for Dams
- Dam Safety Inspections and Practices
- Development and Implementation of Emergency Action Plan
- Operation and Maintenance of Spillway Gates
- Rehabilitation Technologies to Enhance Dam Safety
- Dam Surveillance and Monitoring
- Climate Change Impact on Dam Safety
- Reservoir Sedimentation and its effect on Storage Capacity
- Flood Inundation Maps using Geospatial Technologies

METHODOLOGY

Methodology includes class room lectures with audio visuals, Software Applications, interactive sessions through group discussions, case studies etc. Emphasis would be laid on sharing of experiences of participants. Active participation is solicited from participants. Medium of training is English.

TARGET PARTICIPANTS:

The course is meant for Engineers of Irrigation and Water Resources Departments of Central and State Governments, Dam safety organizations, officers involved in operation and maintenance of different types of dams, and other professionals working in the field of hydropower and water resources around the country.

BENEFITS TO THE PARTICIPANTS

- Explain the dam safety inspections and practices
- List out the issues of different types of Dams
- Explain the gate operation for safe disposal of flood
- Procedure for preparation of flood inundation maps
- Implement Emergency Action Plan for dam safety
- Understand current best practice and how to improve dam safety

PROGRAMME VENUE, DATES & TIMINGS

VENUE :

Engineering Staff College of India (ESCI) Campus, Old Bombay Road, Gachi Bowli, Hyderabad - 500032, TS India.

DATES

18 – 20 May, 2026

TIMINGS

On the first day, registration will commence at 0900 Hrs. On all other days the programme timings will be from 0945 to 1715 hrs with breaks in between for tea and lunch.

COURSE DIRECTOR

Er. M. Rajasekhar Reddy, M.E, FIE
Former – Chief Engineer
Panchayat Raj Engg. Dept., Govt. of Telangana
Senior Faculty and Head
Contact details: 040-66304117 (D)

Er. G Naresh, M.Tech (Ph.D), MIE
Faculty
Mobile : +918801193075

COURSE FEE

Residential Fee Rs 18,000/- + GST 18 % (As applicable) Per participant. Residential fee includes course material, course kit, and twin-sharing / single AC accommodation as per availability, Breakfast, Lunch, Dinner, Tea / Coffee and Snacks.

DISCOUNTS

Non-Residential Fee: 10% discount on course fee is allowed for non-residential participants.

Group Discount: Additional 10% discount for three or more participants if sponsored by the same organization.

(All discounts are applicable only if fee is received at ESCI before the commencement of the programme)

GST @18% as applicable is to be paid extra over and above the training fee. **PAN Card No** AAATT3439Q; **GSTIN** 36AAATT3439Q1ZV (under commercial training or coaching services).

Programme fee is to be paid in favour of “**IE(I)-Engineering Staff College of India**” in the form of demand draft payable at Hyderabad.

Alternatively the payment may be made by **Electronic Fund Transfer (EFT)** to ESCI - SB A/c No. 10007111201 with The SBI, PBB, Rajbhavan Road Branch, Khairatabad, Hyderabad-500004 by **NEFT/ RTGS/ IFSC Code No.** SBIN 0004159 – MICR No.500002075. **While using EFT method of payment, please ensure to communicate us your company name, our invoice reference and programme title.**

REGISTRATION

Online registration shall be available on ESCI website. To register manually, please send your nominations giving details of name, designation, contact address, email address, mobile, telephone and fax numbers of the participant along with the details of mode of payment of fee, addressed to:

Head

Water Resources Development Division
Engineering Staff College of India
Gachi Bowli, Hyderabad – 500 032
Phone: 040 – 66304117 – 9 (Dir.) 23000465 (EPABX): Extn: 4117– 9
Fax: 040 - 23000336
E-Mail : wrd@escihyd.org
Url : www.escihyd.org

CERTIFICATE: A certificate of participation will be awarded to each participant on conclusion of the programme.

GENERAL INSTRUCTIONS

- ESCI encourages participants to present case studies from their respective organizations.
- For the convenience of the outstation participants ESCI will facilitate pickup and drop from Airport / Railway Station/ Bus stations, if travel plans are received at least 3 days in advance along with mobile number by fax or email. The charges shall be paid by the participants directly to the cab.
- ESCI provides complimentary accommodation to participants a day prior to the commencement and after the conclusion of the programme. (Check in at 12:00Hrs) one day after conclusion (Check out at 12:00 hrs) of the programme duration.
- Overstay charges of @ Rs.990/- per day, per head will be charged.
- Well developed Information Centre and internet facilities are available to the participants.