

**DEPARTMENT OF EARTHQUAKE ENGINEERING  
INDIAN INSTITUTE OF TECHNOLOGY ROORKEE**

Dated: March 29, 2019

**3Day Training Program under DRIP on  
Seismic Safety of Earth and Rock-fill Dams  
(June 19-21, 2019)**

**Venue:** Department of Earthquake Engineering, IIT Roorkee

**Day-1: June 19, 2019: Wednesday**

09.00 – 09.30	Inaugural	
09.30 – 11.00	Introduction to Earth and Rock-fill Dams (L)	
11.00 – 11.30	Discussions over Tea	
11.30 – 13.00	Case Studies Related to Dam Failures (L)	
13.00 – 14.30	Lunch	
14.30 – 16.00	Static and Seismic Slope Stability Methods (L)	
16.00 – 16.30	Discussions over Tea	
16.30 – 17.30	Foundation Preparation and Treatment for Dam Construction (L)	

**Day-2: June 20, 2019: Thursday**

09.30 – 11.00	Seismic Performance Criteria for Large Embankment Dams (L)	
11.00 – 11.30	Discussions over Tea	
11.30 – 13.00	Selection of an Appropriate Design Response Spectra - Compatible Acceleration Time History Data for Dynamic Analysis: Standard Code of Practices (L)	
13.00 – 14.30	Lunch	
14.30 – 16.00	Dynamic analysis of Dams with Examples (L)	
16.00 – 16.30	Discussions over Tea	
16.30 – 17.30	Hands on Dynamic Analysis using Computer Codes – 1 (P)	

**Day-3: June 21, 2019: Friday**

09.30 – 11.00	Case Studies: Design, Construction and Seismic Safety Evaluation of an Earth and Rockfill Dams (L)	
11.00 – 11.30	Discussions over Tea	
11.30 – 13.00	Guidelines for the Design and Construction of Earthen Dams: Codal Provisions (L)	
13.00 – 14.30	Lunch	
14.30 – 15.45	Hands on Dynamic Analysis using Computer Codes – 2 (P)	
15.45 – 16.00	Discussions over Tea	
16.00 – 17.00	Training on Laboratory Testing Methods (P)	
17.00 – 17.30	Closure and Certificate distribution followed by Tea	