



RDSO-IITR Webinar

# Earthquake Resistant Design of Bridges: Recent Developments in Design Codes

## Principles and Methodology of Earthquake Resistant Design

- Characteristics of earthquake ground motion and its impact on structures
- Quantification of seismic hazard and design earthquake parameters
- Static and dynamic analyses – Selection and scaling of ground motions for time-history analysis
- Response reduction factors for bridges – A comparison between different codes
- Ductile detailing of RC components in bridges

*Friday, June 18, 2021 - 4:00 PM to 5:30 PM*

## Recent Developments in Design Codes and future trends

- Concept of capacity design: Estimation of design forces for foundations and bearings
- Capacity Design: Recent developments – IRC SP-114
- Unseating and overturning protection design – IRS Seismic Code 2020
- Seismic design of abutments and retaining walls: Dynamic earth pressure and inertia forces
- Design of RC components using finite element analysis

*Saturday, June 19, 2021 - 4:00 PM to 5:30 PM*



**Speaker:**

**Prof. Yogendra Singh**  
Professor, Railway Bridge Chair  
*DEQ, IIT Roorkee*

No registration fees. All Interested are welcome.

[Click here](#) to register

Link to attend webinar will be sent separately to all registered participants

Webinar platform: MS Teams

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