

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				
M	T	W	T	F	S	S

4.8.2020

NOVEMBER

Friday

WK 47 • 325-040

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CES 644

## IS CODES ON DESIGN AND STRUCTURAL SAFETY ASSESSMENT

TAUGHT BY

• prof. pradeep Kumar R

### 12 COURSE TOPICS

1. IS 16700 - 2017: criteria for structural safety of tall concrete buildings (8 classes)
  - a. general requirements
  - b. loads and load combinations
  - c. structural analysis of tall buildings
  - d. structural design of tall buildings
  - e. foundations for tall buildings
  - f. non-structural elements in tall buildings
  - g. recommendations for monitoring deformations in tall buildings.

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NOVEMBER

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Saturday

326-039 • WK 47

5	6	7	1	2	3	4
12	13	14	8	9	10	11
19	20	21	15	16	17	18
26	27	28	22	23	24	25
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OCTOBER 2014

2. IS 1893-2016: criteria for earthquake resistant design of structures (6 classes)

a. general principles

b. design criteria

c. design of buildings

d. regular & irregular buildings

3. IS 13920-2016: ductile design & detailing of RC structures subjected to seismic forces - code of practice (5 classes)

a. general specifications

b. beams, columns, and inclined members

c. special confinement reinforcement

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d. <sup>Sunday</sup> beam-column joint

e. special shear walls

f. gravity columns in buildings

1	2	3	4	5	6	7
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M	T	W	T	F	S	S

4.8.2020

3 NOVEMBER

Monday

WK 48 • 328-037

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4. IS15988-2013: seismic evaluation & strengthening of existing RC building - guidelines (5 classes)

a. preliminary evaluation

b. detailed evaluation

c. seismic strengthening.

## TEXTBOOKS

1. IS16700-2017: criteria for structural safety of tall concrete buildings.

2. IS1893-2016: criteria for earthquake resistant design of structures

3. IS13920-2016: ductile design & detailing of RC structures subjected to seismic forces - code of practice.

4. IS456-2000: plain & reinforced concrete - code of practice.

5. IS15988-2013: seismic evaluation & strengthening of existing RC buildings - guidelines.