

Course Name:

Structural Analysis and Design of tall buildings

Course Number:

20128

Credit:

3

Course Content (outline):

1. Basics
2. Lateral systems: Steel, Concrete, Composite
3. Gravity systems: Steel, Concrete, Composite
4. Wind loads
5. Seismic loads
6. Analysis and Design
7. Special Topics:
 - Floor Diaphragms
 - Cladding issues
 - Construction sequence effects
 - Thermal loads
 - Vibrations