

Course Name:

LRFD Design of Steel Structures

Course Number:

20134

Credit:

3

Course Content (outline):

1. American Codes
2. Steel properties and design principles
3. Design of tensile and compression members
4. Design of weld and bolt connections
5. Design of braces and gusset plate for earthquake according to AISC341
6. Design of bending members
7. Design of beam-columns and P- δ problem
8. Seismic design of steel rigid frames according to AISC341
9. Seismic design of steel rigid connections according to AISC358