

Course Name:

Steel bridges

Course Number:

20243

Credit:

3

Course Content (outline):

1. Introduction and History of construction of bridges
2. Bridge loading in accordance with the standards and regulations of Iran 149 and the regulations of the AASHTO
3. Concrete deck design
4. Simple slab beam system scheme
5. Composite slab beam system design
6. Plate girder system design
7. Designing the columns
8. Introduction to the SAP2000 program and dynamic load analysis
9. Briefly description of design of bridges for an earthquake in accordance with Iran's 463 regulations
10. Slab system design by ASD method