**6CE145 Advanced Design of Steel Structures**

**L-T-P-Cr: 3-0-0-3**

**Objective:**

The objective of the course is to make the students learn design of advanced steel structural members and to make them aware of the codal provisions of steel design.

**Theory:**

1. Design of seat connection , stiffened and unstiffened seat connection **6 Lectures**

2. Design of plate girders **8 Lectures**

3. Design of gantry girders **6 Lectures**

4. Design of Industrial building **8 Lectures**

5. Design of pressed steel water tanks **7 Lectures**

6. Design of steel bridges: foot bridge **7 Lectures**

**Text Books:**

1. S. K .Duggal, “Design of Steel Structures”, Tata McGraw Hill Publishing Co.Pvt. Ltd. 3rd Edition, (2008).

2. N Subramanaim,”Design of Steel Structures: Theory and Practice”, Oxford University Press, (2010).

**References:**

1. Edwin H. Gaylord, “Design of Steel Structures”, Tata McGraw Hill Publishing Co.Pvt.Ltd.3rd Edition, (2010).

2. Jack C. McCormac, “Structural Steel Design”, Prentice Hall, (2008).