

Power Transmission System and Its Components (40 hours) (Assoc. Prof. Dr. Ender Ciğeroğlu, ME)

- **Basic Components of Power Transmission System, 2 hours**
- **Prime Movers, 3 hours**
  - Gasoline Engines
  - Diesel Engines
  - Gas Turbines
  - Electric Motors
  - Combined Propulsion Systems
  - Torque vs angular velocity, Power vs angular velocity characteristics
- **Gears and Gear Boxes, 11 hours**
  - Types of gears
  - Kinematics
  - Design of Gear and Gear Boxes
- **Couplings and Clutches, 4 hours**
- **Shafts, 4 hours**
- **Connection Elements, 3 hours**
- **Lubricants and Systems of Lubrication, 3 hours**
- **Bearings, 10 hours**
  - Journal Bearings
  - Antifriction Bearings