LESSON PLAN ENGINEERING GRAPHICS 2019-2020

|  |  |  |
| --- | --- | --- |
| 2 Hrs. | Module 1 | Introduction to Engineering GraphicsEngineering Curves |
| 1 Hr | Introduction to Engineering Graphics | 1. Principles of Engineering Graphics and their Significance
2. Usage of Drawing Instruments
3. Types of Lines, Dimensioning System
4. Introduction to plain and diagonal Scales
 |
| 1 Hr | Engineering Curves | 1. Basic Construction of Cycloid.
2. Basic Construction of Involute
3. Basic Construction of Helix (of Cylinder)
 |
| 3 Hrs | Module5  | Orthographic and Sectional Orthographic Projections |
| 1Hr |  | 1. Fundamentals of Orthographic Projections
 |
| 1Hr |  | 1. Different views of simple machine parts (1st angle method of projection)
 |
| 1Hr |  | 1. Full ,Half sectional Views of simple machine parts
 |
| 3 Hrs | Module 7 | Isometric Views |
| 1Hr |  | 1. Principles of Isometric Projections.
 |
| 1Hr |  | 1. Isometric Scales, Isometric Views
 |
| 1Hr |  | 1. Conversion of Orthographic Views to Isometric Views (Excluding Sphere)
 |
| 1 Hr | Module 6 | Missing Views |
| 1 Hr |  | 1. The identification of missing views from the given views
2. Create the third view from the two available views so that all the details of the object are obtained.
 |
| 3 Hrs | Module 2 | Projection of Points and Lines and Planes |
| 1 Hr |  | 1. Projection of points
 |
| 1 Hr |  | 1. Projection of Lines inclined to one reference plane
2. Projection of lines inclined to both reference planes
 |
| 1 Hr |  | 1. Projection of Planes
 |
| 5 Hrs | Module 3 | Projection of Solids |
| 1 Hr |  | 1. Projection of solids with axis inclined to HP.
 |
| 1 Hr |  | 1. Projection of solids with axis inclined to VP.
 |
| 1 Hr |  | 1. Projection of solids with axis inclined to both HP and VP
 |
| 1 Hr |  | 1. Use of Change of position or Auxiliary Plane Method
 |
| 1 Hr |  | 1. Problems on Projection of Solids(Tetrahedron)
 |
| 5 Hrs. | Module 4 | Section of Solids |
| 1 Hr |  | 1. Sections of Prism
 |
| 1 Hr |  | 1. Sections of Cylinder
 |
| 1 Hr |  | 1. Sections of Pyramid
 |
| 1 Hr |  | 1. Sections of Cone
 |
| 1 Hr |  | 1. Use of Change of position or Auxiliary Plane Method
 |