

Govt. Polytechnic, Nawada

Lesson Plan

Lecturer Name :- Prem Prakash

No of Week- 19

Subject :- Mechanical Engg Drawing

Subject Code :-1625302

Semester :- IIIrd

Branch :- Mechanical Engg.

| Unit-01 :- Auxiliary views: | | | |
|---|---|---------------------------|------------------------------|
| Sl. No. | Topic Coved | Duration required in hrs. | Platform |
| 1.1 | Study of auxiliary planes. | 2 | Google Classroom/vcs/youtube |
| 1.2 | Projection of objects on auxiliary planes. | 2 | Google Classroom/vcs/youtube |
| 1.3 | Completing the regular views with the help of given auxiliary view. | 2 | Google Classroom/vcs/youtube |
| 1.4 | Completing the regular views with the help of given auxiliary view. | 2 | Google Classroom/vcs/youtube |
| Classl Test | | 2 | GOOGLE FORM |
| Unit-02 :- Intersection of solids:- | | | |
| Sl. No. | Topic Coved | Duration required in hrs. | Platform |
| 2.1 | Prism with prism, Cylinder with cylinder, Prism with Cylinder | 5 | Google Classroom/vcs/youtube |
| 2.2 | Cylinder with cone when axis of cylinder is parallel to both the refrance plane | 4 | Google Classroom/vcs/youtube |
| Classl Test | | 2 | GOOGLE FORM |
| Unit-03 :- Developments of Surfaces. | | | |
| Sl. No. | Topic Coved | Duration required in hrs. | Platform |
| 3.1 | Developments of Lateral surfaces of cube, prisms, cylinder, pyramids, cone | 3 | Google Classroom/vcs/youtube |
| 3.2 | Development of surface tray, funnel, Chimney, pipe bends etc | 5 | Google Classroom/vcs/youtube |
| Classl Test | | 2 | GOOGLE FORM |

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| Unit-04 :- Conventional Representation:- | | | |
|---|--|---------------------------|------------------------------|
| Sl. No. | Topic Coved | Duration required in hrs. | Platform |
| 4.1 | Materials C.I., M.S, Brass, Bronze, Aluminum, wood, Glass, Concrete and rubber , Long and short break in pipe, rod and shaft. | 1 | Google Classroom/vcs/youtube |
| 4.2 | Various sections- Half, removed, revolved, offset, partial and aligned section, Knurling, serrated shafts, splined shafts, and chain wheels. | 2 | Google Classroom/vcs/youtube |
| 4.3 | Springs with square and flat ends, Gears, sprocket wheel, Countersunk & counterbore. | 1 | Google Classroom/vcs/youtube |
| Classl Test | | 1 | GOOGLE FORM |
| Unit-05 :- Limits, Fits and Tolerances:- | | | |
| Sl. No. | Topic Coved | Duration required in hrs. | Platform |
| 5.1 | Characteristics of surface roughness- Indication of machining symbol showing direction of lay, roughness grades, machining allowances, manufacturing methods. Introduction to ISO system of tolerancing, dimensional tolerances, elements of interchangeable system, hole & shaft based system, limits, fits & allowances. Selection of fit. | 2 | Google Classroom/vcs/youtube |
| 5.2 | Geometrical tolerances, tolerances of form and position and its geometric representation. General welding symbols, sectional representation and symbols used in Engineering practices. | 2 | Google Classroom/vcs/youtube |
| Classl Test | | 1 | GOOGLE FORM |

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| Unit- 06 :- Details to Assembly | | | |
|--|---|---------------------------|------------------------------|
| Sl. No. | Topic Coved | Duration required in hrs. | Platform |
| 1 | Couplings – Universal couplings & Oldham’s Coupling | 2 | Google Classroom/vcs/youtube |
| 2 | Bearing – Foot Step Bearing & Pedestal Bearing | 1 | Google Classroom/vcs/youtube |
| 3 | Lathe tool Post | 1 | Google Classroom/vcs/youtube |
| 4 | Machine vice & Pipe Vice | 1 | Google Classroom/vcs/youtube |
| 5 | Screw Jack | 1 | Google Classroom/vcs/youtube |
| 6 | Steam Stop Valve | 2 | Google Classroom/vcs/youtube |
| Unit- 07 :- Assembly to Details | | | |
| Sl. No. | Topic Coved | Duration required in hrs. | Platform |
| 1 | Pedestal Bearing | 1 | Google Classroom/vcs/youtube |
| 2 | Lathe Tail Stock | 2 | Google Classroom/vcs/youtube |
| 3 | Drilling Jig | 1 | Google Classroom/vcs/youtube |
| 4 | Piston & connecting rod | 2 | Google Classroom/vcs/youtube |
| 5 | Gland and Stuffing box Assembly | 1 | Google Classroom/vcs/youtube |
| 6 | Valve – Not more than eight parts | 2 | Google Classroom/vcs/youtube |