

GOVERNMENT POLYTECHNIC JAIPUR

DEPARTMENT OF MECHANICAL ENGINEERING

LESSON PLAN (2023-2024)

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| Discipline: Mechanical Engg. | Semester: 3rd | Name of the Teaching faculty: GITANJALI SETHI |
| Subject: MECHANICAL ENGINEERING DRAWING (Pr-1) | No of Days/ Week class allotted: 6 | Semester from Date: 01.08.2023 To Date: 31.11.2023 No of weeks: 15 |
| Week | Class Day | Topics |
| 1st | 1st | Revision of Engineering Drawing of 1st Year |
| | 2nd | Revision of Engineering Drawing of 1st Year |
| | 3rd | Revision of Engineering Drawing of 1st Year |
| | 4th | Revision of Engineering Drawing of 1st Year |
| | 5th | Revision of Engineering Drawing of 1st Year |
| | 6th | Revision of Engineering Drawing of 1st Year |
| 2nd | 1st | Draw plan, elevation and side view of different machine elements from their isometric view using AutoCAD & mini drafter (Minimum 5 Drawings). |
| | 2nd | Draw plan, elevation and side view of different machine elements from their isometric view using AutoCAD & mini drafter (Minimum 5 Drawings). |
| | 3rd | Draw plan, elevation and side view of different machine elements from their isometric view using AutoCAD & mini drafter (Minimum 5 Drawings). |
| | 4th | Draw plan, elevation and side view of different machine elements from their isometric view using AutoCAD & mini drafter (Minimum 5 Drawings). |
| | 5th | Draw plan, elevation and side view of different machine elements from their isometric view using AutoCAD & mini drafter (Minimum 5 Drawings). |
| | 6th | Draw plan, elevation and side view of different machine elements from their isometric view using AutoCAD & mini drafter (Minimum 5 Drawings), Sheet Checking |
| 3rd | 1st | Engineering drawing of fastening elements in first angle orthographic Projection Bolt, nut and threads |
| | 2nd | Engineering drawing of fastening elements in first angle orthographic Projection Bolt, nut and threads |
| | 3rd | Engineering drawing of fastening elements in first angle orthographic Projection Bolt, nut and threads |
| | 4th | Engineering drawing of fastening elements in first angle orthographic Projection Bolt, nut and threads |
| | 5th | Engineering drawing of fastening elements in first angle orthographic Projection Bolt, nut and threads |
| | 6th | Engineering drawing of fastening elements in first angle orthographic Projection Bolt, nut and threads, Sheet Checking |
| 4th | 1st | first angle orthographic Projection of Cotter joint |
| | 2nd | first angle orthographic Projection of Cotter joint |
| | 3rd | first angle orthographic Projection of Cotter joint |
| | 4th | first angle orthographic Projection of Cotter joint |
| | 5th | first angle orthographic Projection of Cotter joint |
| | 6th | first angle orthographic Projection of Cotter joint, Sheet Checking |

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| 5th | 1st | first angle orthographic Projection of Knuckle joint |
| | 2nd | first angle orthographic Projection of Knuckle joint |
| | 3rd | first angle orthographic Projection of Knuckle joint |
| | 4th | first angle orthographic Projection of Knuckle joint |
| | 5th | first angle orthographic Projection of Knuckle joint |
| | 6th | first angle orthographic Projection of Knuckle joint ,Sheet Checking |
| 6th | 1st | Details to assembly of Rigid pedestal bearing |
| | 2nd | Details to assembly of Rigid pedestal bearing |
| | 3rd | Details to assembly of Rigid pedestal bearing |
| | 4th | Details to assembly of Rigid pedestal bearing |
| | 5th | Details to assembly of Rigid pedestal bearing |
| | 6th | Details to assembly of Rigid pedestal bearing ,Sheet Checking |
| 7th | 1st | Details to assembly of Foot step bearing |
| | 2nd | Details to assembly of Foot step bearing |
| | 3rd | Details to assembly of Foot step bearing |
| | 4th | Details to assembly of Foot step bearing |
| | 5th | Details to assembly of Foot step bearing |
| | 6th | Details to assembly of Foot step bearing ,Sheet Checking |
| 8th | 1st | Details to assembly of Simple Screw jack |
| | 2nd | Details to assembly of Simple Screw jack |
| | 3rd | Details to assembly of Simple Screw jack |
| | 4th | Details to assembly of Simple Screw jack |
| | 5th | Details to assembly of Simple Screw jack |
| | 6th | Details to assembly of Simple Screw jack ,Sheet Checking |
| 9th | 1st | Assembly to details Connecting rod of IC Engine |
| | 2nd | Assembly to details Connecting rod of IC Engine |
| | 3rd | Assembly to details Connecting rod of IC Engine |
| | 4th | Assembly to details Connecting rod of IC Engine |
| | 5th | Assembly to details Connecting rod of IC Engine |
| | 6th | Assembly to details Connecting rod of IC Engine ,Sheet Checking |
| 10th | 1st | Assembly to details Boiler safety valve |
| | 2nd | Assembly to details Boiler safety valve |
| | 3rd | Assembly to details Boiler safety valve |
| | 4th | Assembly to details Boiler safety valve |
| | 5th | Assembly to details Boiler safety valve |
| | 6th | Assembly to details Boiler safety valve,Sheet Checking |

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| 11th | 1st | Assembly to details Spring loaded valve |
| | 2nd | Assembly to details Spring loaded valve |
| | 3rd | Assembly to details Spring loaded valve |
| | 4th | Assembly to details Spring loaded valve |
| | 5th | Assembly to details Spring loaded valve |
| | 6th | Assembly to details Spring loaded valve ,Sheet Checking |
| 12th | 1st | Assembly to details Hydraulic non return valve |
| | 2nd | Assembly to details Hydraulic non return valve |
| | 3rd | Assembly to details Hydraulic non return valve |
| | 4th | Assembly to details Hydraulic non return valve |
| | 5th | Assembly to details Hydraulic non return valve |
| | 6th | Assembly to details Hydraulic non return valve ,Sheet Checking |
| 13th | 1st | Assembly to details Flat belt pulley |
| | 2nd | Assembly to details Flat belt pulley |
| | 3rd | Assembly to details Flat belt pulley |
| | 4th | Assembly to details Flat belt pulley |
| | 5th | Assembly to details Flat belt pulley |
| | 6th | Assembly to details Flat belt pulley ,Sheet Checking |
| 14th | 1st | Revision ,Sheet Checking |
| | 2nd | Revision ,Sheet Checking |
| | 3rd | Revision ,Sheet Checking |
| | 4th | Revision ,Sheet Checking |
| | 5th | Revision ,Sheet Checking |
| | 6th | Revision ,Sheet Checking |
| 15th | 1st | Revision ,Sheet Checking |
| | 2nd | Revision ,Sheet Checking |
| | 3rd | Revision ,Sheet Checking |
| | 4th | Revision ,Sheet Checking |
| | 5th | Revision ,Sheet Checking |
| | 6th | Revision ,Sheet Checking |

Learning Resources:

| Sl No. | Author Name | Name of the Book | Publisher Name |
|--------|--------------|------------------------------|----------------|
| 1 | N D Bhatt | Machine Drawing | Charotar |
| 2 | T Jones | Machine Drawing | Kalyani |
| 3 | R K Dhawan | Machine Drawing | S Chand |
| 4 | T. Jeypooven | Emgg. Graphics using Autocad | CBS |

[Signature]
31.7.23

Signature of Faculty

G. Sethi.

Sr. Lect. Mech