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| **Discipline: Mechanical Engineering** | **Semester :**  **4TH Semester-2022- 23** | **Name of the Teaching Faculty:**  ARUN KUMAR SAHU |
| **Subject: MEL-2**  **Practical** | **No. of Days/week Class Allotted: 90** | **Semester from date: 14 /02 /2023 to date: 27 /05 /2023 No of weeks: 18** |
| **week** | **Class Day** | **Practical Topics** |
| 1st | 1st | INTRODUCTION |
| 2nd | Study of 2-Stroke petrol engine model |
| 2nd | 1st | Study of 2-Stroke petrol engine model |
| 2nd | Study of 2-Stroke petrol engine model |
| 3rd | 1st | Study of 2-Stroke petrol engine model |
| 2nd | Study of 2-Stroke diesel engine model |
| 4th | 1st | Study of 2-Stroke diesel engine model |
| 2nd | Study of 2-Stroke diesel engine model |
| 5th | 1st | Study of 2-Stroke diesel engine model |
| 2nd | Study of 4-Stroke petrol engine model |
| 6th | 1st | Study of 4-Stroke petrol engine model |
| 2nd | Study of 4-Stroke petrol engine model |
| 7th | 1st | Study of 4-Stroke diesel engine model |
| 2nd | Study of 4-Stroke diesel engine model |
| 8th | 1st | Study of 4-Stroke diesel engine model |
| 2nd | Determine the brake thermal efficiency of single cylinder petrol engine |
| 9th | 1st | Determine the brake thermal efficiency of single cylinder petrol engine |
| 2nd | Determine the brake thermal efficiency of single cylinder diesel engine |
| 10th | 1st | Determine the brake thermal efficiency of single cylinder diesel engine |
| 2nd | Determine the B.H.P of a multi cylinder engine by Morse test |
| 11th | 1st | Determine the I.H.P of a multi cylinder engine by Morse test |
| 2nd | Determine the BSFC of a multi cylinder engine by Morse test |
| 12th | 1st | Determine the mechanical efficiency of an air Compressor |
| 2nd | Determine the mechanical efficiency of an air Compressor |
| 13th | 1st | Study of pressure measuring devices manometer. |
| 2nd | Study of pressure measuring devices |
| 14th | 1st | Bourdon tube pressure gauge |
| 2nd | Bourdon tube pressure gauge |
| 15th | 1st | Verification of Bernoulli’s theorem |
| 2nd | Determination of Cd from venturimeter |
| 16th | 1st | Determination of Cc, Cv, Cd from orifice meter |

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|  | 2nd | Determine of Darcy’s coefficient from flow through pipe |
| 17th | 1st | Revision 1 |
| 2nd | Revision 2 |
| 18th | 1st | Revision 3 |
| 2nd | Revision 4 |