7ME7A: THERMAL ENGINEERING LAB-II

1 To perform constant speed load test on a single cylinder diesel engine and to plot performance curves: indicated thermal efficiency, brake thermal efficiency, mechanical efficiency Vs. Brake power, and heat balance sheet. - https://youtu.be/1r331c5CCJ8

2 To estimate the Indicated Power, Friction Power and Mechanical Efficiency of a multi-cylinder Petrol Engine. (Morse Test)- https://youtu.be/PgvD9mx9Doo

 3 Analysis of engine exhaust gases using Orsat apparatus / gas analyzer. - https://youtu.be/8BM1a4DajtU

4 To study refrigeration cycle, determination of coefficient of performance of cycle and tonnage capacity of refrigeration unit. - https://youtu.be/h5wQoA15OnQ

5 To determine the COP and tonnage capacity of a Mechanical heat pump. - https://youtu.be/KH47xAXEEe0

6 To study various controls used in Refrigeration and Air conditioning system. - https://youtu.be/gVLhrLTF878

7 Determination of dryness fraction of steam.- https://youtu.be/KJZzsKRU6ME

 8 Study and Performance of Simple Steam Turbine - https://youtu.be/4YS3iCHgnRU

9 Performance characteristics of Pelton wheel turbine.- https://youtu.be/qbyL--6q7_4

 10 Performance characteristics of Francis turbine. - https://youtu.be/0p03UTgpnDU

11 Performance characteristics of Kaplan turbine.- https://youtu.be/0p03UTgpnDU

 12 Performance characteristics of variable speed centrifugal pump. - https://youtu.be/BaEHVpKc-1Q

13 Performance characteristics of rated speed centrifugal pump.- https://youtu.be/BaEHVpKc-1Q