

DEPARTMENT OF MECHANICAL ENGINEERING

Name of the Lab : Thermal Engineering Laboratory

Virtual Lab Link:

Sl. No.	NAME OF THE EQUIPMENT	Hyper Link
1	Port Timing diagram.	https://youtu.be/wC6N9mw32fk
2	Valve Timing diagram	https://youtu.be/7SP-yzA_KmQ
3	Performance test on 4 – stroke Diesel Engine with Mechanical loading	https://youtu.be/BjGWMRxKpTQ
4	Performance test on 4 – stroke Diesel Engine with Electrical loading	https://youtu.be/p5M5Eul_JmE
5	Heat Balance test on 4 – stroke Diesel Engine.	https://youtu.be/uOYsIENZInc
6	Morse test on Multi-cylinder Petrol Engine.	https://youtu.be/pzHuwrrpgyAM
7	Determination of Flash Point and Fire Point of various fuels/lubricants.	https://youtu.be/1QVoaQr9Q0
8	Thermal conductivity measurement using guarded plate apparatus.	https://youtu.be/_0BVkYW5IXg
9	Thermal conductivity measurement of pipe insulation using lagged pipe apparatus.	https://youtu.be/a-KJgmMYvQ4
10	Determination of heat transfer coefficient under natural convection from a vertical cylinder.	https://youtu.be/W1yJwreRYwg
11	Determination of heat transfer coefficient under forced convection from a tube.	https://youtu.be/B-rFIdOi-No
12	Determination of Thermal conductivity of composite wall.	https://youtu.be/HbzUeBCmjNQ
13	Determination of Thermal conductivity of insulating powder.	https://youtu.be/0xtcHIOWt88
14	Heat transfer from pin-fin apparatus	https://youtu.be/D3pLInnBy_A
15	Determination of Stefan – Boltzmann constant.	https://youtu.be/MUAc_pAMNig
16	Determination of emissivity of a grey surface.	https://youtu.be/YQTB50AaKsc
17	Effectiveness of Parallel / counter flow heat exchanger.	https://youtu.be/w9A_0iJrdg
18	Determination of COP of a refrigeration system	https://youtu.be/6PYa3b9MiVI
19	Performance test on a reciprocating air compressor	https://youtu.be/UADNxsgQo_Y
20	Performance test in a Cooling Tower	https://youtu.be/BTCzsoWk7Wo
21	Performance test in an Air-conditioning test rig	https://youtu.be/fVYT6y0Vl4