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indicated thermal efficiency (  $\eta_{ith}$  ), Brake thermal efficiency (  $\eta_{bth}$  ), Mechanical efficiency (  $\eta_{mech}$  ), Specific Fuel Consumption (SFC) are determined and graphs are plotted. Maximum load on the engine (  $W_{max}$  ) can be calculated as follows

## **THERMAL ENGINEERING**

Users of Thermal Engineering Lab must comply with the following safety instructions. 1. Wear always pants and safety shoes when you operate any engine. Sandals are not allowed at all. 2. There should be no over-crowding. 3. Make sure that you stay away from hot exhaust lines and moving parts of engines 4.

## **THERMAL ENGINEERING LAB**

THERMAL ENGINEERING LAB – I Thermal Engineering Laboratory and I.C .Engine Laboratory LIST OF EXPERIMENTS I.C ENGINE LAB AND FUELS LAB 1. Valve Timing and Port Timing Diagrams. 2. Performance Test on 4-stroke Diesel Engine. 3. Heat Balance Test on 4-stroke Diesel Engine. 4. Morse Test on Multicylinder Petrol Engine. 5.

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thermal engineering lab manual iii year i sem balaji institute of technology and science department of mechanical engineering thermal engineering laboratory year: b.tech iiird yr - i sem academic year: 2015-16 list of experiments 1. i.c. engines valve / port timing diagrams. 2.

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