

Thermal Engineering Lab

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Twelveheads Press

THERMAL ENGINEERING LAB MANUAL INSTITUTE OF AERONAUTICAL ENGINEERING MECHANICAL ENGINEERING DEPARTMENT THERMAL ENGINEERING LAB OBJECTIVE: In this laboratory, students will have the opportunity to study the working principle of IC engines (both SI and CI engines), performance and characteristics in terms of heat balancing,

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 MANUAL www.jntuworld.com www.jntuworld.com www.jwjjobs.net

me6512-thermal engineering lab-ii v a r u v a n v a d i v e l a n i n s t i t u t e o f t e c h n o l o g y p a g e 1 varuvan vadivelan institute of technology institute of technology dharmapuri – 636 703 department of mechanical engineering thermal engineering ii lab manual reg no name subject code\title

ME115, Thermal engineering Lab, Fall 2016 Page 3 of 3 you miss a lab unexpectedly due illness (with a note from the medical center or a hospital) or other emergency, please contact your instructor as soon as possible to discuss your options.

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.

THERMAL ENGINEERING LAB MANUAL LIST OF EXPERIMENTS I. Determination of Viscosity of lubricating oil using i. Redwood Viscometer –I ii. Redwood Viscometer –I iii. Say bolt Viscometer. 2. Determination of Flash point and fire point of sample fluid using i. Abel's apparatus ii. Pensky Marten's apparatus. 3.

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.

indicated thermal efficiency (K_{ith}), Brake thermal efficiency (K_{bth}), Mechanical efficiency (K_{mech}), Specific Fuel Consumption (SFC) are determined and graphs are plotted. Maximum load on the engine (W_{max}) can be calculated as follows $W_{max} = 3.68 \times 60000 \frac{I}{I}$ Procedure :- 1. The fuel level in the tank is checked. 2.

Thermal Conductivity Measurement **MECHANICAL ENGINEERING DEPARTMENT KING SAUD UNIVERSITY RIYADH** Submitted By: **IBRAHIM KHALE AL-NAMLAH ID: 430102348 GROUP A EXPERIMENT PERFORMED ON 28/5/1434 H . 2 I** Introduction In this experiment it is required to evaluate the thermal conductivity of