



NIIST BHOPAL

NRI INSTITUTE OF INFORMATION SCIENCE & TECHNOLOGY

DEPARTMENT NAME: MECHANICAL ENGINEERING

LIST OF EXPERIMENTS

FORM NO

NIIST/A/10

BRANCH

ME

REV. NO

0

SESSION

047- July  
18

REV. DT

30/06/2011

SUBJECT NAME: - Refrigeration & Air Conditioning


SUBJECT CODE: ME-801

1	General Study of vapor compression refrigeration system.
2	General Study of Ice Plant
3	General Study and working of cold storage
4	General Study Trane Air Condition (Package Type).
5	General Study of Electrolux Refrigeration
6	General Study One tone Thermax refrigeration unit
7	General Study of Water cooler
8	General Study of Psychrometers (Absorption type)
9	General Study of Leak Detectors (Halide Torch).
10	General Study and working of Gas charging Rig.
11	General Study of window Air Conditioner
12	General Study and working of Vapor compression Air conditioning Test rig
13	Experimentation on Cold Storage of Calculate COP & Heat Loss.
14	Experimentation on Vapor compression Air Conditioning test rig.
15	Changing of Refrigerant by using Gas Charging Kit.

  
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		REV. NO	0
BRANCH	ME	REV. DT	30/06/2011
SESSION		<u>LIST OF EXPERIMENTS</u>	

SUBJECT NAME: -- Simulation And Modeling      SUBJECT CODE: ME-804

1	Introduction to CATIA software.
2	Introduction to ANSYS software.
3	Assembly of Sleeve and Cotter joint/ Gib and Cotter joint/ Knuckle Joint/ Flanged Coupling using CATIA.
4	Assembly of Connecting Rod using CATIA
5	Stress analysis using ANSYS (examples: plate with a circular hole, rectangular L bracket, Axis-symmetric components, various types of beams, etc.)
6	Thermal stress analysis of a 2D component.
7	Conductive and convective heat transfer analysis of a 2D component.
8	CFD Simulation of various situations (example: Laminar pipe flow, Flat plate boundary layer, steady flow past a cylinder, Compressible flow in a Nozzle, Flow over an airfoil.)



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