 NIIST BHOPAL		NRI INSTITUTE OF INFORMATION SCIENCE & TECHNOLOGY DEPARTMENT NAME: MECHANICAL ENGINEERING <u>LIST OF EXPERIMENTS</u>		FORM NO	NIIST/A/10
				REV. NO	0
BRANCH	ME	REV. DT	30/06/2011		
SESSION					

SUBJECT NAME: Thermal Engineering and Gas Dynamics


SUBJECT CODE: ME-601

1	Study of working of some of the high pressure boilers like Lamont or Benson
2	Study of Induced draft/forced and balanced draft by chimney
3	Determination of Calorific value of a fuel
4	Study of different types of steam turbine
5	Determination of efficiencies of condenser
6	Boiler trail to chalk out heat balance sheet
7	Determination of thermal efficiency of steam power plant
8	Determination of Airflow in ducts and pipes.
9	To find out efficiencies of a reciprocating air compressor and study of multistage Compressors
10	Find Out heat transfer area of a parallel flow/counter flow heat exchanger

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				REV. NO	0
BRANCH	ME	REV. DT	30/06/2011		
SESSION					

SUBJECT NAME: Machine Component and Design SUBJECT CODE: ME-602

1	Design considerations for fatigue
2	Design criteria and procedure for springs.
3	Design of shaft
4	Design of keys
5	Design of couplings
6	Design of leaf spring for a given load.
7	Design of power screw and nut.
8	Design of Centrifugal clutch.
9	Design of disc brake
10	Design considerations for roller bearings.

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				REV. NO	0
BRANCH	ME	REV. DT	30/06/2011		
SESSION	2011-2012 1R				

SUBJECT NAME: CAD LAB

SUBJECT CODE: ME-605

1	Layout and sketching of different geometries
2	Drawing environment in AUTOCAD
3	Elements of drawing and draw commands
4	3D functions in AUTOCAD
5	2D: Figures for practice using AutoCAD
6	ISOMETRIC drawing for practice using AutoCAD
7	3-D solid figures using AUTOCAD
8	Introduction to CREO 3.0
9	Learning different Operations like Threading, Sweep, Swept-blend.
10	Modeling & Assembling

Abhishek
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