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			REV. DT	30/06/2011

SUBJECT NAME: Basic Mechanical Engineering SUBJECT CODE:_BT-203

1	Study of Universal Testing machines
2	Linear and Angular measurement using, Micrometer, Slip Gauges, Dial Gauge and Sine-bar.
3	Study of Lathe Machine
4	Study of Drilling Machines
5	Verification of Bernoulli's Theorem.
6	Study of various types of Boilers.
7	Study of different IC Engines.
8	Study of different types of Boilers Mountings and accessories

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

SUBJECT NAME: Basic Civil Engineering & Mechanics SUBJECT CODE:_BT-204

1	To perform traverse surveying with prismatic compass, check for local attraction and determine corrected bearings and to balance the traverse by Bowditch's rule.
2	To perform leveling exercise by height of instrument of Rise and fall method.
3	To measure horizontal and vertical angles in the field by using Theodolite.
4	To determine (a) normal consistency (b) Initial and Final Setting time of a cement Sample.
5	To determine the workability of fresh concrete of given proportions by slump test or compaction factor test.
6	To determine the Compressive Strength of brick.
7	To determine particle size distribution and fineness modulus of course and fine Aggregate.
8	To verify the law of Triangle of forces and Lami's theorem.
9	To verify the law of parallelogram of forces.
10	To verify law of polygon of forces
11	To find the support reactions of a given truss and verify analytically.
12	To determine support reaction and shear force at a given section of a simply Supported beam and verify in analytically using parallel beam apparatus.
13	To determine the moment of inertia of fly wheel by falling weight method.
14	To verify bending moment at a given section of a simply supported beam.

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