1.	Lab Name	Mechanical Testing Lab
2.	In-charge	Dr. Sunil Nimje
2	Associated Manihous to the Lab. D.A.s.	DA NEI
3.	Associated Members to the Lab: RAs, PhD Scholars/ Technical Staff	RA- Nil PhD- Nil
	This scholars/ reclinical staff	THD- NII
		Lab officer: Prajith P.
		Lab Assistant: Mr. Amol Indalkar
4.	Contact Details	02024304204
5.	Area in sq units (optional)	800 Sq. ft
6.	Lab Facilities	Universal Testing Machine:
		Model: 8852 Axial Torsion
		Systems
7	Compulsor on / Sami and Office d	Make: Instron NA
7. 8.	Consultancy / Services Offered Complete & On-going Projects (Details)	NA NA
9.	Collaborations (with DRDO lab, IISER,	INA
'.	TATA, TCS, etc)	
10.	Intellectual Outcome: publications/	-
	patents/ etc	
11.	Mentors Associated: (Like Dr. APJ Abdul	-
	Kalam, etc)	
12.	Any other relevant data	Objective: Testing of Mechanical
		Properties such as Tensile,
		Compression, Flexural, fatigue etc.
		of Metals and Plastics as per ASTM, DIN and IS standards
		Specifications
		<u>Specifications</u>
		Floor model Biaxial Servo
		Hydraulic Dynamic Test system
		Axial load capacity of ±100 kN
		Torque capacity of ±1000 Nm
		Axial actuator stroke of 150 mm
		(6 in) and a rotary stroke of 90°
		• Facility for Tensile, Flexural and
		compression test for Metals, Plastics etc.
		• Equipped with two-axis 8800
		1 11
		<u> </u>
		MT Digital Controller and Bluehill Operating Software

Universal Testing Machine



Major Features of UTM

Dynamic axial load capacity : ±100 kN
 Dynamic torsion load capacity : ±1000 Nm
 Actuator Axial Stroke : 150 mm

• Rotary stroke : 90°

• Bi-axial Fatigue Load cell : 100 kN Linear

& 1000 N-m Torsional

Additional load cell for testing of : 10 kN plastics and FRP composites

- Controller designed for both cyclic and static testing applications.
- Hydraulic Power pack Maximum system Pressure 200 bar.

Mechanical Tests

- Tensile Test
- Compression Test
- High Cycle Fatigue
- Low Cycle Fatigue
- Fracture Toughness
- Crack Growth Rate