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1. Introduction

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1.1 Introduction

Metrology is a science of measurement.

Metrology may be divided depending upon the quantity under consideration into: metrology of length, metrology of time etc.

**DEPARTMENT OF
MECHANICAL**

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MECHANICAL ...

Importance of
mechanical
measurement ... A
.Measurement is
fundamental basis of
all research, design,
development. B. It is
necessary for
measurement of
different parameters,
for which it is
theoretically

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compare between
theoretical ...

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fabrication (Lanza et
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Pressure Gauge 2.
Calibration of
Thermocouple 3.
Calibration of LVDT 4.
Calibration of Load
cell

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demonstrate the
theoretical concepts
taught in Mechanical
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Metrology. To
understand and use
various measuring
tools. To understand
calibration of various

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measuring devices.

OUTCOMES

02 Metrology Lab - Experiments

Introduction to
Metrology I Metrology
is the science of
measurement I
Dimensional
metrology is that
branch of Metrology
which deals with
measurement of

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dimensions of a part
or workpiece (lengths,
angles, etc.) I

Dimensional
measurements at the
required level of
accuracy are the
essential link between
the designer's intent
and a

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AND METROLOGY**

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- 1 EXPERIMENT - 1
Aim: To Study about
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Metrology. 1.1

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Introduction Metrology
is a science of
measurement.

Metrology may be
divided depending
upon the quantity

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Metrology and
Measurements
2mark questions ...**

Our metrology labs
are designed and built
to enhance

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measurement
accuracy and reduce
measurement

uncertainty due to
temperature and
humidity fluctuations.

Precision

Environments has
designed and built
metrology labs for sub-
micrometer

measurements at
NIST, national
laboratories and for

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the high-tech industry.

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MECHANICAL
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AND METROLOGY
LAB List of Equipment
1. Profile Projector
Machine 2. Height
Gauge 3. Surface
Plate 4. Centring Tool
5. System (Monitor +

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- CPU + Keyboard) 6.
- Quality Sampling Box
(Full Of Plastic
Gories) 7. Microscope
8. High Voltage
Amplifier (MA-17) 9.
- Surface Roughness
Tester 10. Magnetic V-
Block 11. Sine Bar-
14 Size 12.

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Precision
Environments Inc.**

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Metrology Lab |
Laboratory Testing
Inc.**

Engineering
Metrology and
Measurements is a
core subject for
mechanical,
production, and allied
disciplines in all the
major universities in
India. Although there
are a few good books

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available on
metrology, the
coverage of topics on
mechanical
measurements is
either scanty or

Mechanical Measurement & Metrology

The objectives of
Mechanical
Measurements &
Metrology lab is 9 To

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demonstrate the theoretical concepts taught in Mechanical Measurements & Metrology. 9 To understand and use various measuring tools. 9 To understand calibration of various measuring devices. OUTCOMES

The expected outcome of
Mechanical

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**MECHANICAL
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AND METROLOGY
LAB List of
Equipment**

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AND METROLOGY
LAB Santosh
Gaidhankar; 10
videos; 9,300 views;

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... MEASUREMENTS
AND METROLOGY
(GEAR TOOTH
THICKNESS USING
GEAR TOOTH
VERNIER) by
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Semester 1 PART – A
MECHANICAL
MEASUREMENTS
LAB INTRODUCTION

Measurement:

Measurement is the act or the result of a quantitative comparison between a predetermined standard and an unknown magnitude. It is essential that the

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**ENGINEERING
METROLOGY AND
MEASUREMENTS**

Metrology is the science of measurement. It establishes a common understanding of units, crucial in linking human activities.

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Metrology can help to make sure that designs can be implemented. It can determine whether there are new processes that can be developed to enhance an existing design.

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importance of
mechanical
measurement and ...**

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Calibration Services
Verifying Vtu
Measurement:
Ensuring Accuracy.
The Metrology
Services offered by
Laboratory Testing
Inc. include both
Dimensional
Inspection and
Calibration
Services. The Lab
holds A2LA

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accreditation to ISO
17025 and all
inspection results are
traceable to NIST.

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