



National Institute of Technology Calicut

(An institute of national importance under the Ministry of Human Resource Development, Government of India)

Department of Mechanical Engineering, Metrology Lab

N.I.T Campus Kozhikode PO, Kerala-673601,

Phone: 0495-2286407, 9207024889

Email: dhanish@nitc.ac.in, Web: www.nitc.ac.in

<p style="text-align: center;">CMM</p>  <p>Mitutoyo make Bright Apex A504 Range x 505, y 405, z 405 mm Accuracy: (4.0 + 5L/1000) μm</p>	<p style="text-align: center;">Digital Height Gauge</p>  <p>Make: Mitutoyo, Japan Model: LH-600EG Range: 0-600 mm Accuracy: (1.1 + 0.6L/600) μm, L measuring length in mm</p>
<p style="text-align: center;">Measuring Microscope</p>  <p>Make: Mitutoyo, Japan Model: MF-B2010C Objective: 3X, 20X, 100X Range: x 200, y 100, z 150 mm Resolution: 0.0001 mm Accuracy: xy axis (2.2+0.02L) mm, z axis (5 + 0.04L) μm</p>	<p style="text-align: center;">Stereo Microscope</p>  <p>Make: Leica Model: EZ4D Magnification: 8X to 35X</p>
<p style="text-align: center;">Universal Measuring Microscope</p>  <p>Make: Carl Zeiss Jena Magnifications: 10X Range: x 150 mm, y 100 mm LC 0.2 μm</p>	<p style="text-align: center;">Tool Makers Microscope</p>  <p>Make: Carl Zeiss Jena Magnifications 10X Range: x 25 mm, y 25 mm</p>
<p style="text-align: center;">Measuring Projector</p>  <p>Make: Mitutoyo, Japan Model: PJ-A3000 Magnifications: 10X, 20X, 50X, 100X Range: x 100 mm, y 100 mm, Resolution: 0.001 mm, Accuracy: (3+0.02L)μm</p>	<p style="text-align: center;">Profile Projector</p>  <p>Make: Carl Zeiss Jena Model: MP320 Magnifications: 10X, 20X, 100X Range: x 50 mm, y 75 mm</p>



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<p align="center">Articulated Arm CMM</p>  <p>Make: Hexagon Metrology Model: RA-7312-4 Range: 1.2 m MPE_E: 5+L/40 <= 18 um</p>	<p align="center">Laser scanner</p>  <p>Make: Hexagon Model: HP-L-8.9 Accuracy: 0.04 mm Acquisition rate: 45000 p/s</p>
<p align="center">3D Metrology Software</p>  <p>Polyworks Premium</p>	<p align="center">Laser Scan Micrometer</p>  <p>Make: Mitutoyo, Japan Model: LSM 501S & 6200 Range: 0.1 mm to 10 mm Accuracy +/- 0.5 um</p>
<p align="center">Cylindricity Tester</p>  <p>Make: Mitutoyo, Japan Model: RA-1600M Rotational accuracy: (0.02 +6H/10000) um, H height (mm)</p>	<p align="center">Profilometer</p>  <p>Make: Mitutoyo, Japan Model: SJ-410 Resolution: 0.0001 mm Range: x-axis 50 mm z axis 800 um</p>
<p align="center">Coating Thickness Gauge</p>  <p>Make: Phynix Model: Surfex Pro S Probes: FN 3.5, FN 1.5 and FN 0.2</p>	<p align="center">Sound Level Meter</p>  <p>Make: Testo Model: 16-1 Measuring Range: 30 to 130 dB Frequency Range: 20 Hz to 8 KHz</p>
<p align="center">LVDT</p>  <p>Make: Syscon Model SI70 3C Range -10 to +10 mm</p>	<p align="center">Digital Ultrasonic Flaw Detector</p>  <p>Make: Modsonic Model: Einstein II DGS</p>



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<p style="text-align: center;">Stroboscope</p>  <p>Make: HTA Instrumentation Model DT-2560P</p>	<p style="text-align: center;">Platinum Resistance Thermometer</p>  <p>Make: Fluke Model: 1524 P2-256 Range: 1000 °C to 600 °C</p>
<p style="text-align: center;">Spirit Level</p>  <p>Make: Mitutoyo, Japan</p>	<p style="text-align: center;">Combination Set</p>  <p>Make: Mitutoyo, Japan</p>
<p style="text-align: center;">Planimeter</p>  <p>Make: Scholar Range: 100 cm²</p>	<p style="text-align: center;">Sine Bar</p>  <p>Make: Aditya Length: 200 mm</p>
<p style="text-align: center;">Gauge Block Set</p>  <p>Make: Mitutoyo, Japan Grade: 0 Range: 0.5 to 300</p>	<p style="text-align: center;">Setting Ring</p>  <p>Make: Mitutoyo Sizes: 9.999 mm, 24.997 mm, 49.987 mm, 75.005 mm, 99.994 mm</p>



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Pressure Gauge Tester



Make: Ravika,
India
Range: 0-100 bar

Autocollimator



Make: Hilger &
Watts, UK
Range: 0-30 m

Spring Tester



Make: Kudale /
Mikrotech
Model: MFG
Range: 0 to 100 N

Dial Gauge Tester



Make: Mitutoyo,
Japan
Model: MP320
Range: 0-25 mm

Refrigerated / Heating Circulator



Make: Julabo
Model: FP50
Range: -40 to 200 °C

Digital Micro Voltmeter



Make: SES
Instruments
Model: DMV001

Strain Indicator

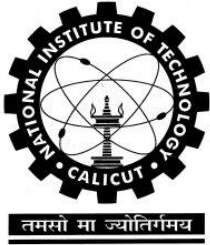


Make: Micron,
India
Model DA01

Thermistor based Thermometer



Make: Instrulab,
USA
Model: 3312A-14-
07
Range: -5 to 105 °C



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<p style="text-align: center;">Height Gauge</p>  <p style="text-align: right;">Make: Mitutoyo, Japan Range: 0 to 600 mm</p>	<p style="text-align: center;">Micrometers</p>  <p style="text-align: right;">Make: Mitutoyo, Japan Range: 0 - 25 mm 25 - 50 mm 50 - 75 mm 75 - 100 mm</p>
<p style="text-align: center;">Disc Micrometer</p>  <p style="text-align: right;">Make: Mitutoyo, Japan Range: 0 - 25 mm 25 - 50 mm</p>	<p style="text-align: center;">Thread Pitch Micrometer</p>  <p style="text-align: right;">Make: Mitutoyo, Japan Range: 0 - 25 mm</p>
<p style="text-align: center;">Three Pin Micrometer</p>  <p style="text-align: right;">Make: Mitutoyo, Japan Range: 12 - 16 mm 16 - 20 mm</p>	<p style="text-align: center;">Digital Vernier Caliper</p>  <p style="text-align: right;">Make: Mitutoyo, Japan Range: 0 - 200 mm 0 - 300 mm</p>
<p style="text-align: center;">Gear Tooth Vernier</p>  <p style="text-align: right;">Range: 0 - 100 mm</p>	<p style="text-align: center;">Digital Dial Gauge</p>  <p style="text-align: right;">Make: Mitutoyo, Japan Range: 0.01 to 12 mm 0 to 50 mm</p>



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<p align="center">Bore Dial Gauge</p>  <p>Make: Mitutoyo, Japan Range: 6 to 10 mm 18 to 35 mm 35 to 60 mm 50 to 100 mm</p>	<p align="center">Three Wire set</p>  <p>Make: Mitutoyo, Japan Range: 0.17 to 3.2 mm</p>
<p align="center">Feeler Gauge</p>  <p>Make: Mitutoyo, Japan Range: 0.05 to 1 mm</p>	<p align="center">Thread Pitch Gauge</p>  <p>Make: Mitutoyo, Japan Range: 4 to 42 TPI 0.4 to 7 mm</p>
<p align="center">Thread Ring Gauge</p>  <p>Make: QMG M22X1.5 6g</p>	<p align="center">Thread Plug Gauge</p>  <p>Make: Harshman M22X1.5 6H</p>
<p align="center">Cent-O-Gram Balance</p>  <p>Make: Ohaus, Japan Range: 0.01 to 311 g</p>	<p align="center">Digital Micromanometer</p>  <p>Make: D.P Calc Range: 0 to 1 kg/cm² Resolution: 0.001 kg/cm²</p>



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<p style="text-align: center;">Optical Flat</p>  <p style="text-align: right;">Make: Carl Zeiss</p>	<p style="text-align: center;">Sodium Vapour Lamp</p> 
<p style="text-align: center;">Torque Measuring Instrument</p>  <p style="text-align: right;">Trucheck plus Range 100-1000 Nm Accuracy +/- 1% +/- 1 digit</p>	<p style="text-align: center;">Autocollimator</p>  <p style="text-align: right;">Make: Holmarc Accuracy: 1 arc sec</p>
<p style="text-align: center;">Pin Gauge set</p>  <p style="text-align: right;">Insize make Code 4166-511 Range 5-10 mm Step size 0.1 mm</p>	<p style="text-align: center;">Roughness Comparison set</p>  <p style="text-align: right;">Rubert make</p>
<p style="text-align: center;">Thermal Imager</p>  <p style="text-align: right;">Make: Flir Model: C3 Range: -10 to 150°C Accuracy: +/- 2°C or 2%</p>	