MODULE 1

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1.2 Limits, fits and tolerances of interchangeable manufacture, Elements of interchangeable system, Hole based and shaft based systems, Tolerance grades, Types of fits, General requirements of Go & No go gauging, Taylor's principle, Design of Go & No go gauges.

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2.2 **Surface texture measurement :** importance of surface conditions, roughness and waviness, surface roughness standards specifying surface roughness parameters - Ra, Ry, Rz, RMS value etc., Surface roughness measuring instruments.

2.3 **Screw Thread measurement :** Two wire and three wire methods, Floating carriage micrometer.

2.4 **Gear measurement :** Gear tooth comparator, Master gears, Measurement using rollers and Parkinson's Tester.

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4.4 **Flow Measurement :** Bernoullis flowmeters, Ultrasonic Flowmeter, Magnetic flow meter, rotameter.

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