

**COURSE NAME** : MECHANICAL AND PRODUCTION ENGINEERING / PRODUCTION TECHNOLOGY  
**COURSE CODE** : ME/PT/PG/MH/MI  
**SEMESTER** : FIFTH FOR ME / PG / PT AND SIXTH FOR MH/MI  
**SUBJECT TITLE** : METROLOGY & QUALITY CONTROL  
**SUBJECT CODE** : 9097

**Teaching and Examination Scheme:**

Teaching Scheme			Examination Scheme						
TH	TU	PR	PAPER HRS	TH	TEST	PR	OR	TW	TOTAL
04	--	02	03	80	20	50#	-	25@	175

**Rationale:**

The mechanical Engineering technician often come across measuring different parameters of machined components and the appropriate fitment of interchangeable components in the assemblies. For the above purpose he/she is also required to analyze the quantitative determination of physical magnitude and ensure the control of quality.

During previous semesters different systems of measurement and their units etc have been introduced in the subject, basic physics. The different methods and instruments which can be used for linear and angular measurements, geometrical parameters (like surface finish, Squareness, Parallelism, Roundness etc ..) and the use of gauges and system of limits, Fits, Tolerances etc. are often required to be dealt in detail by diploma technician on the shop floor. He/she is also required to analyze, Interpret and present the data collected, graphically & statistically for ensuring the quality.

The knowledge of the subject also forms the basis for the design of mechanical measurements systems, design & drawing of mechanical components.

**objectives:**

Students will be able to:

1. Define accuracy, precision, calibration, sensitivity, repeatability and such relevant terms in metrology.
2. Select appropriate instrument/s for specific measurement.
3. Analyze and interpret the data obtained from the different measurements processes and present it in the graphical form, statistical form.
4. Construct and draw the control charts.
5. Understand ISO certification procedure and quality system.

# Metrology And Quality Control 9097 Model Answer

**S Ben Porath**



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