

Name of Faculty : AMIT
 Discipline : Mechanical
 Sem. : 6th
 Subject : ~~...~~ I.Q.C

Week	Theory		Practical	
	Lecture day	Topic	Practical Day	Topic
1	1 2 3 4	<ul style="list-style-type: none"> Introduction, units of measurement standards, interchangeability International, National, Company standard Line & wavelength standard Planning of Inspection 		Use of dial Indicator for measuring Taper
2	1 2 3 4	<ul style="list-style-type: none"> Types of Inspection Factors influencing quality Basic Principles of measurement & gauging Calliper, micrometer, dial indicators 		Use of Combination Set, bevel protector & sine bar
3	1 2 3 4	<ul style="list-style-type: none"> Surface Plate, straight edge try square, protectors Sine bar, Clinometer, Comparators Slip gauge, tool room, microscope, Profile projector. 		Measurement of thread characteristic using vernier & gauges
4	1 2 3 4	<ul style="list-style-type: none"> Limit Gauge Plug, ring, snap, taper gauge Thread, height, depth, form Feeler, wire 		Use of slip gauge in measurement of centre dist. b/w two pins.
5	1 2 3 4	<ul style="list-style-type: none"> App.s for linear, angular measurement Surface, thread, gear measurement Gauge tolerances Geometrical parameters 		Use of tool maker's microscope & comparator
6	1 2 3 4	<ul style="list-style-type: none"> Error & their effect on quality Concept of error Measurement of straightness " " Flatness 		Plot frequency distribution for 50 turned components

4K	Theory		Practical	
	Lecture day	Topic	Practical day	Topic
7	1 2 3 4	<ul style="list-style-type: none"> Measurement of Parallelism Alignment tests on Lathe " " " " drilling " " " " Milling 		With the help of given data plot X, R, P & C charts
8	1 2 3 4	<ul style="list-style-type: none"> Basic Statistical Concepts empirical distribution & histograms Frequency, mean, mode, S.D, N.D Binomial & Poisson 		Repeat 1 st Practical
9	1 2 3 4	<ul style="list-style-type: none"> Simple examples. — do — Introduction to control charts X & R charts 		Repeat 2 nd Practical
10	1 2 3 4	<ul style="list-style-type: none"> P & C charts Applications Sampling Plan, Selection of sample size Method of sampling, frequently " " 		Repeat 3 rd Practical
11	1 2 3 4	<ul style="list-style-type: none"> Inspection plan format and test reports Concept of T.O.M National & International Codes ISO - 9000 		Repeat 4 th Practical
12	1 2 3 4	<ul style="list-style-type: none"> QC Tools Introduction to Kaizen " " 5S Introduction to instrumentation 		Repeat 5 th Practical

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Week	Theory		Practical	
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13.	1.	• Measurement of Mechanical quantities		Repeat 6 th Practical
	2.	• Measurement of Displacement		
	3.	• " " " Vibration		
	4.	• " " " Frequency		
14.	1.	• Pressure Measurement		Repeat 7 th Practical
	2.	• Temp. " "		
	3.	• Electromechanical Transducers		
	4.	Resistive type		
15.	1.	Capacitance type		
	2.	" "		
	3.	Inductance type		
	4.	" "		