

ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT (AITAM) TEKKALI

(An Autonomous Institution)

(Approved by AICTE, Accredited by NBA, Affiliated to JNTU, Kakinada)



STUDENT ATTENDANCE REGISTER

Name : S.K. Madhavi
Subject : Metrology
Class : III-II ME-B
Year : 2016-17

LESSON PLAN

Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
8 th	5/12/16	Introduction to Metrology, Limits & Fits	I	C-R.		
3 rd , 5 th	8/12/16	Normal size, Tolerance Limits	I	C-R.		
		Deviations	I	C-R.		
3 rd	9/12/16	Allowances, Basic definitions	I	C-R.		
3 rd , 5 th	15/12/16	Unilateral and Bilateral tolerances	I	C-R.		
		Systems, Hole and shaft basis system	I	C-R.		
3 rd	16/12/16	Interchangeability	I	C-R.		
1 st	19/12/16	Selective assembly	I	C-R.		
3 rd , 5 th	22/12/16	Indian standard	I	C-R.		
		Institution system	I	C-R.		
3 rd	23/12/16	British std system	I	C-R.		
1 st	26/12/16	Types of Fits	I	C-R.		
3 rd , 5 th	29/12/16	Clearances and	I	C-R.		
		Interferences min & max	I	C-R.		
3 rd	30/12/16	20 grades of tolerances in IS specification	I	C-R.		
1 st	2/1/17	International std system for plain work	I	C-R.		
3 rd , 5 th	5/1/17	International std system for screw work	I	C-R.		
		work	I	C-R.		
3 rd	6/1/17	Concept of Measurement	II	C-R.		
		General Concept of Measurement	II	C-R.		

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1 st	9/1/16	Generalized	II	C.R.		
		measurement system	II	C.R.		
3 rd 15 th	19/1/16	units and standards	II	C.R.		
		Measuring Instru-ments	II	C.R.		
3 rd	20/1/16	Definition and	II	C.R.		
		need of metrology Linear Measuring Inst	II	C.R.		
1 st	23/1/16	Vernier, Micrometer	II	C.R.		
		Construction & working	II	C.R.		
3 rd 15 th	27/1/16	slip gauges & classification	II	C.R.		
1 st	30/1/16	Interferometry - optical flats	II	C.R.		
3 rd 15 th	2/2/16	comparators - mech.	II	C.R.		
		pneumatic and electrical types & apps.	II	C.R.		
3 rd	3/2/16	Ang. Meas. Instruments Sine Bar	II	C.R.		
1 st	6/2/16	optical Bevel protractor	II	C.R.		
3 rd 15 th	9/2/16	Angle - Decker -Tape measure	II	C.R.		
		Limit gauges: Taylor's Principle	II	C.R.		
3 rd	10/2/16	Design of Go & NoGo gauges	II	C.R.		
1 st	13/2/16	plug, ring, snap gap, profile, Position	II	C.R.		
3 rd 15 th	16/2/16	optical Measuring instruments -	III	C.R.		
		Tool maker's microscope & its uses	III	C.R.		

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3 rd	17/2/16	Collimators	<u>III</u>	C-R		
1 st	20/2/16	Optical projector	<u>III</u>	C-R		
3 rd , 5 th	23/2/16	Optical flats & their uses	<u>III</u>	C-R		
		Interferometer	<u>III</u>	C-R		
1 st	27/2/16	Flat Surface measurements	<u>IV</u>	L.C.D		
3 rd , 5 th	2/3/16	Straight-edges, Surface plates	<u>IV</u>	L.C.D		
3 rd	3/3/16	Optical flat and Auto Collimator	<u>IV</u>	L.C.D		
1 st	6/3/16	Surface Roughness Measurement	<u>IV</u>	C-R.		
3 rd , 5 th	9/3/16	C.L.A, R, R.M.S values	<u>IV</u>	C-R.		
		Rz values	<u>IV</u>	C-R.		
3 rd	10/3/16	Methods of Measurement of surface finish	<u>IV</u>	C-R.		
1 st	13/3/16	Profilograph, Talysurf	<u>IV</u>	C-R.		
3 rd , 5 th	16/3/16	ISI symbols for indication of sur-fin.	<u>IV</u>	C-R		
		Mechanical comparators	<u>IV</u>	L.C.D.		
3 rd	17/3/16	Electrical and Electronic Comp.	<u>IV</u>	L.C.D.		
1 st	20/3/16	Pneumatic Comparators in mass produc.	<u>IV</u>	C-R.		
3 rd , 5 th	23/3/16	Screw Thread measurement	<u>V</u>	C-R.		
		Errors in screw threads	<u>V</u>	C-R.		
3 rd	24/3/16	Measurement of effective dia.	<u>V</u>			
1 st	27/3/16	Angle of thread & thread pitch, profile	<u>V</u>			

Thread gauges

LESSON PLAN

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