

# GOVERNMENT POLYTECHNIC COLLEGE, KOTA (RAJ.)

## SYLLABUS BREAK-UP (SESSION 2015-16)

SUBJECT CODE : **ME309**

SUBJECT NAME : **MECHANICAL ESTIMATING AND COSTING**

FACULTY NAME : **RAJESH SHARMA**

DESIGNATION : **LECTURER**

TOPIC	LECTURE / PRACTICAL CLASSES REQUIRED TO COVER TOPIC	MONTHS IN WHICH THE TOPIC WILL BE COVERED	ACTUAL DATE OF COVERING OF THE TOPIC	REASON FOR NOT COVERING THE TOPIC IN DUE TIME	E-CONTENTS PROVIDED TO STUDENTS RELATED TO TOPIC
Estimation-Definition, Importance of estimating, Aims and functions, Estimating procedure	2	Aug-15			
Costing-Definition, Aims of costing, Procedure of costing	1	Aug-15			
Elements of Cost: Material cost, Labour cost, Expenses	1	Aug-15			
Components of cost	2	Sep-15			
Overhead cost and allocation of on-cost	2	Sep-15			
Estimation of volumes, weights and cost of materials for pulley and spindle	2	Sep-15			
Estimation of volumes, weights and cost of materials for Lathe centre and fly wheel	2	Sep-15			
Estimation of volumes, weights and cost of materials for Crank shaft	1	Oct-15			
Estimation in Machining :Cutting speed, feed and depth of cut,Setup time, operation time, machining, time tear down time, handling time,Allowances	2	Oct-15			
Estimation of machining time for various lathe operations :	4	Oct-15			
Estimation of machining time for Milling operation	2	Oct,Nov-15			
Estimation of machining time for Shaping operation	2	Nov-15			
Estimation of machining time for Grinding operation, Metal removal rates	2	Nov-15			
Estimation in Welding Shop : Estimation of electric arc welding cost	3	Nov-15			
Estimation of gas welding	2	Nov,Dec-15			
Estimation of gas cutting, Factors affecting welding cost	1	Dec-15			
Estimation in Forging Shop : Hand forging, Machine forging	1	Dec-15			
Estimation of losses in forging operation , net weight, Time	1	Jan-16			
Estimation of cost of forging operation	4	Jan-16			
Estimation in Pattern Making and Foundry Shop : Pattern allowances, Estimation of	3	Jan-16			
Estimation of foundry shop	3	Feb-16			
Estimation in Sheet Metal Shop : Sheet metal operations, Sheet metal joints	1	Feb-16			

Estimation of time and cost in sheet metal operations	3	Feb-16			
Blank layout, Capacity for power press.	2	Feb-16			
Break Even Analysis and Equipment Replacement Analysis : Break even analysis (cost, volume, profit analysts), determination of Break even point, break even point theory	2	Feb,Mar-16			
Equipment Replacement Analysts	2	Mar-16			
Hire Purchasing	1	Mar-16			
Labour Costing : Type of Wage and Incentive, Wage Differentials	2	Mar-16			
Methods of wage Payments, Job Evaluation	1	Mar-16			
<b>TOTAL</b>	<b>57</b>				



TOTAL	110				