

Lesson Plan

Discipline: Mechanical

Semester: 6th Mechanical

Subject : Estimating & Costing

Lesson Plan Duration: 15 weeks

Work Load (Lecture/ Practical) per week (in hours): Theory-03

Week	Theory		Practical	
	Lecture day	Topic (including assignment / test)	Practical Day	Topic
1 st	1 st	Definition of estimation, Importance, aims and functions of estimating; cost accounting, purposes of cost accounting		
	2 nd	Comparison of estimating and costing, estimating procedure		
	3 rd	Cost estimators and their qualifications, types of estimates, constituents of job estimates.		
2 nd	1 st	cost of production, selling price, capital investment, rate of return(ROR) on investment		
	2 nd	Revision		
	3 rd	Revision		
3 rd	1 st	Practical View Of Estimating		
	2 nd	Practical View Of Costing		
	3 rd	Definitions, objectives, elements of costs, components of costs		
4 th	1 st	overhead expenses:: factory expenses, depreciation-causes; methods of calculation of depreciation		
	2 nd	obsolescence, interest on capital, idleness costs, repairs and		

		<p>maintenance cost, selling and distribution overheads and methods of allocation of overhead charges, procedure for costing</p>		
	3 rd	Practical view of element of costing		
5 th	1 st	Objectives of cost accounting, difference between financial accounting and cost accounting		
	2 nd	advantages of cost accounting, methods of costing		
	3 rd	unit costing, batch costing, departmental costing, process costing, multiple and composite costing		
6 th	1 st	Objectives of cost estimating, functions of cost estimating, organization of estimating department		
	2 nd	principal factors in estimating, miscellaneous allowances, estimating procedures, qualities of estimator		
	3 rd	Estimation of volumes, weights and cost of material for items like pulley, spindle, lathe centre		
7 th	1 st	fly wheel, crank shaft and similar items. Simple numericals on the above, budgets and types of budgets		
	2 nd	Revision		
	3 rd	Revision		
8 th	1 st	Practical view of Estimation of Material Cost		
	2 nd	Practical view of Estimation of Material Cost		
	3 rd	Revision		
9 th	1 st	Set up time, operation time, handling time, machining time, tear down time, allowances; personal, fatigue		
	2 nd	tool checking/sharpening/changing,		

		unit operation time, cycle time and total time, full depth of cut		
	3 rd	cutting speeds for various operations for different tool materials and product materials		
10 th	1 st	Revision		
	2 nd	Revision		
	3 rd	Practical view of Estimation of Machine Shop		
11 th	1 st	estimation of time for various machining operations - turning, drilling, boring, tapping, shaping, planning, milling and grinding.		
	2 nd	Revision		
	3 rd	Revision		
12 th	1 st	Estimation of cost of different products produced in welding		
	2 nd	gas and electric welding		
	3 rd	forging and foundry shops		
13 th	1 st	Revision		
	2 nd	Revision		
	3 rd	Revision		
14 th	1 st	Students problem discussion		
	2 nd	Students problem discussion		
	3 rd	Practical view of Estimation of Other Shops		
15 th	1 st	Revision		
	2 nd	Revision		
	3 rd	Revision		

