

**PANIPAT INSTITUTE OF ENGINEERING AND TECHNOLOGY**  
**PANIPAT**  
**Department of Mechanical Engineering**  
**LESSON PLAN**

**Name: - Mr. Bhupender Singh**

**Subject Name: - Manufacturing Cost Estimation**

**Branch/Semester: -7th. SEM**

**Subject Code:-MEO-407A**

S.No.	Lecture No.	Topics to be covered	Tentative Date
1.	L-1	<b>UNIT- I The estimating function and costing studies:</b> Explanation of terms, importance of the life of the product,	15/09/2021
2.	L-2	target cost, product costs, purpose of estimating	16/09/2021
3.	L-3	types of estimates, a systematic approach to cost reduction,	17/09/2021
4.	L-4	cost reduction examples, team efforts.	22/09/2021
5.	L-5	<b>Organizing and staffing for estimating:</b> Coordinated product cost estimating	23/09/2021
6.	L-6	cost estimating department, type of organization and cost estimating,	24/09/2021
7.	L-7	qualifications of a cost estimator	29/09/2021
8.	L-8	development of a cost estimator.	30/09/2021
9.	L-9	Revision	1/10/2021
10.	L-10	<b>UNIT-II Acceleration Analysis: Cost estimating controls:</b> Administrative controls	6/10/2021
11.	L-11	initiating cost requests,	7/10/2021
12.	L-12	estimating methods, controlling the cost estimate,	8/10/2021
13.	L-13	controlling estimate deviations,	13/10/2021
14.	L-14	estimating in a changing cost environment, do's and don'ts of cost estimating.	20/10/2021
15.	L-15	<b>Estimating procedures:</b> Cost estimating analysis,	21/10/2021

16.	L-16	part analysis, preliminary manufacturing plan, facilities,	22/10/2021
17.	L-17	direct material cost, tooling costs, manufacturing time,	27/10/2021
18.	L-18	direct labour costs,	28/10/2021
19.	L-19	factory burden, total manufacturing cost.	29/10/2021
20.	L-20	Revision	3/11/2021
21.	L-21	Revision	10/11/2021
22.	L-22	<b>Unit III- Cost estimation for machining:</b> Traditional machining operations defined,	17/11/2021
23.	L-23	gathering information, economical machining,	18/11/2021
24.	L-24	cost modeling and calculations,	24/11/2021
25.	L-25	grinding application, milling application,	25/11/2021
26.	L-26	non-traditional machining applications.	26/11/2021
27.	L-27	<b>Estimating casting costs:</b> Casting materials,	1/12/2021
28.	L-28	casting processes,	2/12/2021
29.	L-29	determining material costs,.	3/12/2021
30.	L-30	foundry tooling defined, molding costs, core costs,	8/12/2021
31.	L-31	machining and cleaning costs,	9/12/2021
32.	L-32	heat treatment,	10/12/2021
33.	L-33	inspection and shipping costs, foundry burden	15/12/2021
34.	L-34	Revision	22/12/2021
35.	L-35	Revision	23/12/2021
36.	L-36	<b>Unit IV- Estimation of cost:</b> Joining Costs: Welding,	24/12/2021

37.	L-37	Braze Welding, Brazing, Soldering,	29/12/2021
38.	L-38	Electron Beam Welding, Laser Beam Welding,	30/12/2021
39.	L-39	Plasma Arc Welding, Adhesive Bonding,	31/12/2021
40.	L-40	Fastening, Ultrasonic Welding.	05/01/2022
41.	L-41	<b>Estimating surface finishing costs:</b> Deburring,	06/01/2022
42.	L-42	ultrasonic cleaning, polishing,	07/01/2022
43.	L-43	honing,	12/01/2022
44.	L-44	hybrid finishing processes,	13/01/2022
45.	L-45	painting, electroplating,	14/01/2022
46.	L-46	cost modelling and calculations.	19/01/2022
47.	L-47	Revision	20/01/2022
48.	L-48	Revision	21/01/2022

**Course Incharge**

**( Bhupender Singh )**