

GANESH INSTITUTE OF ENGINEERING AND TECHNOLOGY, POLYTECHNIC

DEPARTMENT OF MECHNAICAL ENGINEERING

LESSON PLAN CUM PROGRESS REPORT – 2025-2026

MONALIN MOHANTY

SUBJECT: INDUSTRIAL ENGINEERING & MANAGEMENT				SEMESTER: 6TH			BRANCH: ELECTRICAL ENGINEERING		
LECTURE NO.	CO	BTL	TOPIC TO BE COVERED	BOOK NAME./ CHAPT. NO./ PAGE NO.	WEB REFERENCE IF ANY	TEACHING LEARNING METHOD	PLAN DATE	ACTION DATE	REVIEW BY HOD
1	1	2	PLANT ENGINEERING; Selection of Site of Industry.	INDUSTRIAL ENGINEERING & MANAGEMENT O.P.KHANNA DHANPAT RAI & SONS	https://www.youtube.com/watch?v=XB-X45tH_yc&pp=ygUyUEXBTIQgRU5HSU5FRVJJTkc6lCBTZWxiY3Rpb24gb2YgU2l0ZSBvZiBJbmRlc3RyeS4%3D	1-Introduction to RE-5 min 2-Prerequisites for RE-PPT/Smart board-10 min 3-Syllabus & CO discussion-10 min 4-Lecture-35 min	02-01-2026		
2	1	3	Define plant layout. Describe the objective and principles of plant layout.	INDUSTRIAL ENGINEERING & MANAGEMENT O.P.KHANNA DHANPAT RAI & SONS	https://www.youtube.com/watch?v=XB-X45tH_yc&pp=ygUyUEXBTIQgRU5HSU5FRVJJTkc6lCBTZWxiY3Rpb24gb2YgU2l0ZSBvZiBJbmRlc3RyeS4%3D	1-Previous class topic Review-5 min 2-Lecture-45 min 3-Doubts 10 min	05-01-2026		
3	1	2	Explain Process Layout, Product Layout and Combination Layout.			1-Previous class topic Review-5 min 2-Lecture-45 min	07-01-2026		
4	1	2	Define plant layout. Describe the objective and principles of plant layout. Explain Process Layout, Product Layout Techniques to improve layout and Combination Layout..	INDUSTRIAL ENGINEERING & MANAGEMENT O.P.KHANNA DHANPAT RAI & SONS	https://www.youtube.com/watch?v=ljtGERVLF5U&list=PLhSp9OSVmeyJKg_QaMV6qQdcGTFp2SbUH	1-Previous class topic Review-5 min 2-Lecture-45 min 3-Doubts 10 min	08-01-2026		
5	1	2	Principles of material handling equipment. 1 Plant maintenance.	INDUSTRIAL ENGINEERING & MANAGEMENT O.P.KHANNA DHANPAT RAI	https://www.youtube.com/watch?v=ljtGERVLF5U&list=PLhSp9OSVmeyJKg_QaMV6qQdcGTFp2SbUH	1-Previous class topic Review-5 min 2-Lecture-45 min 3-Doubts 10 min	10-01-2026		
6	1	1	Importance of plant maintenance.	INDUSTRIAL ENGINEERING & MANAGEMENT O.P.KHANNA DHANPAT RAI	https://www.youtube.com/watch?v=ljtGERVLF5U&list=PLhSp9OSVmeyJKg_QaMV6qQdcGTFp2SbUH	1-Assignment - 10 min 2- Doubts -20 min 3- Smart Class-30 min	12-01-2026		
7	1	3	Break down maintenance. Preventive maintenance. Scheduled maintenance.			1-Introduction to Solar Energy -5 min 2-Smart class -20 min 4-Lecture-35 min	15-01-2026		
8	2	2	OPERATIONS RESEARCH:		https://www.youtube.com/watch?v=xrGve6gMRyk&list=PLabr9RWfBcnoJjebSiOYj004xKoxJr9o6	1-Previous class topic Review-5 min 2-Lecture-45 min	16-01-2026		
9	2	2	1 Introduction to Operations Research and its applications. Define Linear Programming Problem,		https://www.youtube.com/watch?v=xrGve6gMRyk&list=PLabr9RWfBcnoJjebSiOYj004xKoxJr9o6	1-Previous class topic Review-5 min 2-Lecture-45 min 3-Doubts 10 min	19-01-2026		

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10	2	2	Solution of L.P.P. by graphical method	INDUSTRIAL ENGG & PRODUCTION MANAGEMENT MARTAND TELSANG S.CHAND	https://www.youtube.com/watch?v=xrGVe6gMRyk&list=PLabr9RWFbcnoJJeBslOYj004xKOxJr9o6	1-Previous class topic Review-5 min 2-Lecture-45 min 3-Doubts 10 min	20-01-2026		
11	2	4	Solution of L.P.P. by graphical method	INDUSTRIAL ENGG & PRODUCTION MANAGEMENT MARTAND TELSANG	https://www.youtube.com/watch?v=xrGVe6gMRyk&list=PLabr9RWFbcnoJJeBslOYj004xKOxJr9o6	1-Previous class topic Review-5 min 2-Lecture-45 min 3-Doubts 10 min	21-01-2026		
12	2	1	Evaluation of Project completion time by Critical Path Method and PERT (Simple problems)- Evaluation	INDUSTRIAL ENGG & PRODUCTION MANAGEMENT MARTAND TELSANG		1-Previous class topic Review-5 min 2-Lecture-45 min 3-Doubts 10 min	24-01-2026		
13	2	3	Evaluation of Project completion time by Critical Path Method and PERT (Simple problems)-	INDUSTRIAL ENGG & PRODUCTION MANAGEMENT MARTAND TELSANG		1-Previous class topic Review-5 min 2-Lecture-45 min 3-Doubts 10 min	27-01-2026		
14	2	3	Explain distinct features of PERT with respect to CPM.	INDUSTRIAL ENGG & PRODUCTION MANAGEMENT MARTAND TELSANG	https://www.youtube.com/watch?v=ljtGERVLF5U&list=PLhSp9OSVmeyJKg_QaMV6qQdcGTFp2SbUH	1-Previous class topic Review-5 min 2-Lecture-45 min 3-Doubts 10 min	28-01-2026		
15	2	3	Solve related problems	INDUSTRIAL ENGG & PRODUCTION MANAGEMENT MARTAND	https://www.youtube.com/watch?v=ljtGERVLF5U&list=PLhSp9OSVmeyJKg_QaMV6qQdcGTFp2SbUH	1-Previous class topic Review-5 min 2-Lecture-45 min 3-Doubts 10 min	29-01-2026		
16	2	2	Solve related problems		https://www.youtube.com/watch?v=ljtGERVLF5U&list=PLhSp9OSVmeyJKg_QaMV6qQdcGTFp2SbUH	1-Previous class topic Review-5 min 2-Lecture-45 min 3-Doubts 10 min	31-01-2026		
17	2	2	Solve related problems	INDUSTRIAL ENGG & PRODUCTION MANAGEMENT MARTAND TELSANG S.CHAND		1-Previous class topic Review-5 min 2-Lecture-45 min 3-Doubts 10 min	02-02-2026		
18	2	3	Solve related problems			1-Previous class topic Review-5 min 2-Lecture-45 min 3-Doubts 10 min	04-02-2026		
19	2	3	Solve related problems			1-Previous class topic Review-5 min 2-Lecture-45 min 3-Doubts 10 min	05-02-2026		

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20	3	3	INVENTORY CONTROL:	INDUSTRIAL ENGG & PRODUCTION MANAGEMENT MARTAND TELSANG	https://www.youtube.com/watch?v=ljtGERVLF5U&list=PLhSp9OSVmeyJKg_QaMV6qQdcGTFp2SbUH	1-Previous class topic Review-5 min 2-Lecture-45 min 3-Doubts 10 min	06-02-2026		
21	3	2	Classification of inventory.	INDUSTRIAL ENGG &		1-Assignment - 10 min 2- Doubts -20 min 3- Smart Class-30 min	07-02-2026		
22	3	2	Describe the functions of inventories.	PRODUCTION MANAGEMENT		1-Introduction to Wind Energy -5 min 2-Smart class -20 min 4-Lecture-35 min	09-02-2026		
23	3	3	Benefits of inventory control.	INDUSTRIAL ENGG & PRODUCTION MANAGEMENT MARTAND TELSANG S.CHAND	https://www.youtube.com/watch?v=ljtGERVLF5U&list=PLhSp9OSVmeyJKg_QaMV6qQdcGTFp2SbUH	1-Previous class topic Review-5 min 2-Lecture-45 min 3-Doubts 10 min	10-02-2026		
24	3	2	Costs associated with inventory.			1-Previous class topic Review-5 min 2-Lecture-45 min 3-Doubts 10 min	12-02-2026		
25	3	3	Terminology in inventory control	INDUSTRIAL ENGG & PRODUCTION MANAGEMENT MARTAND TELSANG	https://www.youtube.com/watch?v=ljtGERVLF5U&list=PLhSp9OSVmeyJKg_QaMV6qQdcGTFp2SbUH	1-Previous class topic Review-5 min 2-Lecture-45 min 3-Doubts 10 min	13-02-2026		
26	3	4	Explain and Derive economic order quantity for Basic model. (Solve numerical)			1-Previous class topic Review-5 min 2-Lecture-45 min 3-Doubts 10 min	16-02-2026		
27	3	3	3.8 Define and Explain ABC analysis			1-Previous class topic Review-5 min 2-Lecture-45 min 3-Doubts 10 min	17-02-2026		
28	3	3	Solve related problems	INDUSTRIAL ENGG & PRODUCTION MANAGEMENT MARTAND TELSANG S.CHAND	https://www.youtube.com/watch?v=ljtGERVLF5U&list=PLhSp9OSVmeyJKg_QaMV6qQdcGTFp2SbUH	1-Previous class topic Review-5 min 2-Lecture-45 min 3-Doubts 10 min	18-02-2026		
29	3	3	Solve related problems			1-Previous class topic Review-5 min 2-Lecture-45 min 3-Doubts 10 min	20-02-2026		

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30	4	3	INSPECTION AND QUALITY CONTROL: Define Inspection and	INDUSTRIAL ENGG & PRODUCTION MANAGEMENT MARTAND	https://www.youtube.com/watch?v=ljtGERVLF5U&list=PLhSp9OSVmeyJKg_QaMV6qQdcGTFp2SbUH	1-Previous class topic Review-5 min 2-Lecture-45 min 3-Doubts 10 min	23-02-2026		
31	4	3	Describe planning of inspection.	INDUSTRIAL ENGG & PRODUCTION MANAGEMENT MARTAND	https://www.youtube.com/watch?v=ljtGERVLF5U&list=PLhSp9OSVmeyJKg_QaMV6qQdcGTFp2SbUH	1-Previous class topic Review-5 min 2-Lecture-45 min 3-Doubts 10 min	25-02-2026		
32	4	2	Describe types of inspection.	INDUSTRIAL ENGG &		1-Previous class topic Review-5 min 2-Lecture-45 min 3-Doubts 10 min	26-02-2026		
33	4	1	Advantages and disadvantages of quality control.	PRODUCTION MANAGEMENT		1-Previous class topic Review-5 min 2-Lecture-45 min 3-Doubts 10 min	27-02-2026		
34	4	2	Study of factors influencing the quality of manufacture.	MARTAND		1-Assignment - 10 min 2- Doubts -20 min 3- Smart Class- 30 min	28-02-2026		
35	4	2	Explain the Concept of statistical quality control, Control charts (X, R, P and C - charts).	TELSANG		1-Introduction to Biomass Power - 5 min 2-Smart class -20 min 4-Lecture-35 min	03-03-2026		
36	4	2	Methods of attributes	INDUSTRIAL ENGG & PRODUCTION MANAGEMENT MARTAND	https://www.youtube.com/watch?v=ljtGERVLF5U&list=PLhSp9OSVmeyJKg_QaMV6qQdcGTFp2SbUH	1-Previous class topic Review-5 min 2-Lecture-45 min 3-Doubts 10 min	04-03-2026		
37	4	1	Describe planning of inspection.	INDUSTRIAL ENGG & PRODUCTION MANAGEMENT MARTAND TELSANG S.CHAND	https://www.youtube.com/watch?v=ljtGERVLF5U&list=PLhSp9OSVmeyJKg_QaMV6qQdcGTFp2SbUH	1-Previous class topic Review-5 min 2-Lecture-45 min 3-Doubts 10 min	06-03-2026		
38	4	1	Describe planning of inspection.			1-Previous class topic Review-5 min 2-Lecture-45 min 3-Doubts 10 min	07-03-2026		
39	4	1	Concept of ISO 9001-2008	INDUSTRIAL ENGG & PRODUCTION MANAGEMENT MARTAND TELSANG S.CHAND		1-Previous class topic Review-5 min 2-Lecture-45 min 3-Doubts 10 min	09-03-2026		

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40	4	2	Quality management system, Registration /certification procedure.	INDUSTRIAL ENGG & PRODUCTION MANAGEMENT MARTAND TELSANG	https://www.youtube.com/watch?v=ljtGERVLF5U&list=PLhSp9OSVmeyJKg_QaMV6qQdcGTFp2SbUH	1-Previous class topic Review-5 min 2-Lecture-45 min 3-Doubts 10 min	10-03-2026		
41	4	2	Benefits of ISO to the organization	INDUSTRIAL ENGG & PRODUCTION MANAGEMENT MARTAND TELSANG		1-Previous class topic Review-5 min 2-Lecture-45 min 3-Doubts 10 min	12-03-2026		
42	4	3	JIT, Six sigma,7S, Lean manufacturing			1-Previous class topic Review-5 min 2-Lecture-45 min 3-Doubts 10 min	13-03-2026		
43	4	2	Solve related problems	INDUSTRIAL ENGG & PRODUCTION MANAGEMENT MARTAND TELSANG	https://www.youtube.com/watch?v=ljtGERVLF5U&list=PLhSp9OSVmeyJKg_QaMV6qQdcGTFp2SbUH	1-Previous class topic Review-5 min 2-Lecture-45 min 3-Doubts 10 min	16-03-2026		
44	4	1	Solve related problems	INDUSTRIAL ENGG & PRODUCTION MANAGEMENT MARTAND TELSANG	https://www.youtube.com/watch?v=ljtGERVLF5U&list=PLhSp9OSVmeyJKg_QaMV6qQdcGTFp2SbUH	1-Previous class topic Review-5 min 2-Lecture-45 min 3-Doubts 10 min	17-03-2026		
45	4		Solve related problems	INDUSTRIAL ENGG & PRODUCTION MANAGEMENT MARTAND TELSANG		1-Previous class topic Review-5 min 2-Lecture-45 min 3-Doubts 10 min	18-03-2026		
46	4	3	Solve related problems			1-Previous class topic Review-5 min 2-Lecture-45 min 3-Doubts 10 min	19-03-2026		
47	5	3	PRODUCTION PLANNING AND CONTROL Introduction	INDUSTRIAL ENGG & PRODUCTION MANAGEMENT MARTAND TELSANG		1-Previous class topic Review-5 min 2-Lecture-45 min 3-Doubts 10 min	20-03-2026		
48	5	2	Major functions of production planning and control	INDUSTRIAL ENGG & PRODUCTION MANAGEMENT MARTAND TELSANG	https://www.youtube.com/watch?v=ljtGERVLF5U&list=PLhSp9OSVmeyJKg_QaMV6qQdcGTFp2SbUH	1-Assignment- 10 min 2- Doubts -20 min 3- Smart Class-30 min	21-03-2026		
49	5	2	Methods of forecasting	INDUSTRIAL ENGG & PRODUCTION MANAGEMENT MARTAND TELSANG S.CHAND		1-Introduction to other energy sources -5 min 2-Smart class -20 min 4-Lecture-35 min	23-03-2026		

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50	5	3	Routing	INDUSTRIAL ENGG & PRODUCTION MANAGEMENT MARTAND TELSANG	https://www.youtube.com/watch?v=ljtGERVLF5U&list=PLhSp9OSVmeyJKg_QaMV6qQdcGTFp2SbUH	1-Previous class topic Review-5 min 2-Lecture-45 min 3-Doubts 10 min	24-03-2026		
51	5	2	Scheduling	INDUSTRIAL ENGG & PRODUCTION MANAGEMENT MARTAND TELSANG		1-Previous class topic Review-5 min 2-Lecture-45 min 3-Doubts 10 min	26-03-2026		
52	5	2	Dispatching	INDUSTRIAL ENGG & PRODUCTION MANAGEMENT MARTAND TELSANG	https://www.youtube.com/watch?v=ljtGERVLF5U&list=PLhSp9OSVmeyJKg_QaMV6qQdcGTFp2SbUH	1-Previous class topic Review-5 min 2-Lecture-45 min 3-Doubts 10 min	27-03-2026		
53	5	2	Controlling	INDUSTRIAL ENGG & PRODUCTION MANAGEMENT MARTAND TELSANG		1-Previous class topic Review-5 min 2-Lecture-45 min 3-Doubts 10 min	28-03-2026		
54	5	1	Types of production	INDUSTRIAL ENGG & PRODUCTION MANAGEMENT MARTAND TELSANG		1-Previous class topic Review-5 min 2-Lecture-45 min 3-Doubts 10 min	30-03-2026		
55	5	2	Mass production	INDUSTRIAL ENGG & PRODUCTION MANAGEMENT MARTAND TELSANG	https://www.youtube.com/watch?v=ljtGERVLF5U&list=PLhSp9OSVmeyJKg_QaMV6qQdcGTFp2SbUH	1-Previous class topic Review-5 min 2-Lecture-45 min 3-Doubts 10min	31-03-2026		
56	5	2	Batch production	INDUSTRIAL ENGG & PRODUCTION MANAGEMENT MARTAND TELSANG		1-Previous class topic Review-5 min 2-Lecture-45 min 3-Doubts 10min	02-04-2026		
57	5	2	Job order production	INDUSTRIAL ENGG & PRODUCTION MANAGEMENT MARTAND TELSANG S.CHAND		1-Previous class topic Review-5 min 2-Lecture-45 min 3-Doubts 10min	03-04-2026		
58	5	2	Principles of product and process planning.	INDUSTRIAL ENGG & PRODUCTION MANAGEMENT MARTAND TELSANG	https://www.youtube.com/watch?v=ljtGERVLF5U&list=PLhSp9OSVmeyJKg_QaMV6qQdcGTFp2SbUH	1-Previous class topic Review-5 min 2-Lecture-45 min 3-Doubts 10min	06-04-2026		

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59	5	2	Principles of product and process planning.	INDUSTRIAL ENGG & PRODUCTION MANAGEMENT MARTAND TELSANG		1-Previous class topic Review-5 min 2-Lecture-45 min Doubts-10min	08-04-2026		
60	5	2	Principles of product and process planning.	INDUSTRIAL ENGG & PRODUCTION MANAGEMENT MARTAND TELSANG		1- Assignment - 10 min 2- Doubts -20 min 3- Smart Class- 30 min	10-04-2026		

Principal

Faculty

HOD, (MECHANICAL)