

# GOVERNMENT POLYTECHNIC GARIYABAND

GARIYABAND (C.G.)

## LESSION PLAN

SESSION - JAN-JUNE 2025

NAME OF FACULTY : CHANDRESH KUMAR  
DEWANGAN

DESIGNATION : LECTURER (MECHANICAL)

DEPARTMENT : MECHANICAL ENGINEERING

COURSE : INDUSTRIAL ENGINEERING AND  
PRODUCTION MANAGEMENT

COURSE CODE :  
2037671(037)

SEMESTER : VI

SESSION STARTS FROM : 06.01.2025

Lecture No.	Unit No.	Topic to be Covered	Planned Date	Execution Date	Remarks
1	1	Introduction to Industrial Engineering	06.01.2025	08/01/25	Lecture + Discussion
2	1	Role & Functions of Industrial Engineer	08.01.2025	10/01/25	Lecture + Discussion
3	1	Productivity – Definition & Measurement	10.01.2025	15/01/25	Lecture + Discussion + Numerical
4	1	Production Systems – Types	13.01.2025	17/01/25	Lecture + Discussion
5	1	Plant Location – Factors	15.01.2025	20/01/25	Lecture + Discussion
6	1	Plant Layout – Types	17.01.2025	22/01/25	Lecture + Discussion
7	1	Line Balancing – Concepts	20.01.2025	24/01/25	Lecture + Discussion
8	1	Revision & Numerical Problems (Unit 1)	22.01.2025	27/01/25	-
9	2	Work Study – Introduction	24.01.2025	29/01/25	Lecture + Discussion
10	2	Method Study – Steps	27.01.2025	31/01/25	Lecture + Discussion
11	2	Process Charts – Operation & Flow Process Chart	29.01.2025	03/02/25	Lecture + Discussion
12	2	Two Handed Process Chart & SIMO Chart	31.01.2025	07/02/25	Lecture + Discussion + Numerical
13	2	Principles of Motion Economy	03.02.2025	10/02/25	Lecture + Discussion
14	2	Time Study – Objectives	05.02.2025	14/02/25	Lecture + Discussion
15	2	Time Study – Procedure	07.02.2025	19/02/25	Lecture + Discussion

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16	2	Performance Rating & Allowances	10.02.2025	21/02/25	Lecture + Discussion
17	2	Standard Time Calculation Numericals	12.02.2025	24/02/25	Lecture + Discussion + Numerical
18	2	Revision & Class Test (Unit 2)	14.02.2025	27/02/25	-
19	3	Introduction to PPC	17.02.2025	03/03/25	Lecture + Discussion
20	3	Objectives & Functions of PPC	19.02.2025	05/03/25	Lecture + Discussion
21	3	Routing, Scheduling & Dispatching	21.02.2025	07/03/25	Lecture + Discussion
22	3	Gantt Chart & Bar Chart	24.02.2025	10/03/25	Lecture + Discussion
23	3	Sequencing Problems – Johnson's Rule	26.02.2025	12/03/25	Lecture + Discussion
24	3	Inventory Control – Introduction	28.02.2025	17/03/25	Lecture + Discussion
25	3	EOQ Model – Derivation	03.03.2025	19/03/25	Lecture + Discussion
26	3	Numericals on EOQ	05.03.2025	21/03/25	Lecture + Discussion + Numerical
27	3	ABC Analysis	07.03.2025	24/03/25	Lecture + Discussion
28	3	Revision & Problem Solving	10.03.2025	26/03/25	Lecture + Discussion
29	4	Introduction to Quality Control	12.03.2025	28/03/25	Lecture + Discussion
30	4	Inspection – Types & Methods	14.03.2025	02/04/25	Lecture + Discussion

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31	4	Statistical Quality Control	17.03.2025	04/04/25	Lecture + Discussion
32	4	Control Charts – Variables ( $\bar{X}$ , R Chart)	19.03.2025	07/04/25	Lecture + Discussion
33	4	Control Charts – Attributes (p, np Chart)	21.03.2025	09/04/25	Lecture + Discussion
34	4	Acceptance Sampling	24.03.2025	11/04/25	Lecture + Discussion
35	4	Quality Circles	26.03.2025	16/04/25	Lecture + Discussion
36	4	Six Sigma – Basics	28.03.2025	21/04/25	Lecture + Discussion
37	4	Numerical Problems on Control Charts	31.03.2025	23/04/25	Lecture + Discussion + Numerical
38	4	Revision & Test (Unit 4)	02.04.2025	01/05/25	-
39	5	Production Management – Functions	04.04.2025	02/05/25	Lecture + Discussion
40	5	Material Handling – Principles & Equipment	07.04.2025	03/05/25	Lecture + Discussion
41	5	Job Evaluation & Merit Rating	09.04.2025	05/05/25	Lecture + Discussion
42	5	Wage Incentive Plans	11.04.2025	06/05/25	Lecture + Discussion
43	5	Break Even Analysis – Concept	14.04.2025	07/05/25	Lecture + Discussion
44	5	Break Even Analysis – Numericals	16.04.2025	08/05/25	Lecture + Discussion + Numerical

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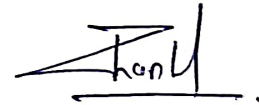
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45	5	Maintenance – Types	18.04.2025	09/05/25	Lecture + Discussion
46	5	Preventive & Breakdown Maintenance	21.04.2025	10/05/25	Lecture + Discussion
47	5	Lean Manufacturing Basics	23.04.2025	13/05/25	Lecture + Discussion
48	5	Final Revision & Model Paper Discussion	25.04.2025	14/05/25	Lecture + Discussion



Chandresh Ku. Dewangan

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