

Lesson Plan

Name of the Institute:	C. V. Raman Polytechnic
Department:	Mechanical Engineering
Semester/Division/Branch:	6th Sem
Subject Name with code:	Industrial Engineering and Management (IEM), TH-1
Total No. of Class (Required):	60
Faculty Name:	Mrs. Soumya Dash

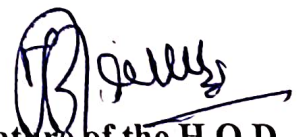
Class No.	Brief Description of the Topic/Chapter to be taught	Remarks
1	Selection of Site of Industry	
2	Define plant layout, Describe the objective and principles of plant layout	
3	Explain Process Layout, Product Layout and Combination Layout	
4	Techniques to improve layout, Principles of material handling equipment	
5	Plant maintenance, Importance of plant maintenance	
6	Break down maintenance, Preventive maintenance, Scheduled maintenance	
7	Introduction to Operations Research and its applications	
8	Revision	
9	Doubt Clearing	
10	Define Linear Programming Problem	
11	Solution of L.P.P. by graphical method	
12	Doubt Clearing	
13	Revision	
14	Evaluation of Project completion time by Critical Path Method and PERT (Simple problems)	
15	Explain distinct features of PERT with respect to CPM	
16	Classification of inventory, Objective of inventory control	
17	Describe the functions of inventories, Benefits of inventory control, Costs associated with inventory, Terminology in inventory control	

18	Explain and derive economic order quantity for Basic model. (Solve numerical), Define and explain ABC analysis	
19	Explain and derive economic order quantity for Basic model. (Solve numerical), Define and explain ABC analysis	
20	Define Inspection and Quality control, describe planning of inspection, Describe types of inspection	
21	Advantages and disadvantages of quality control, Study of factors influencing the quality of manufacture	
22	Advantages and disadvantages of quality control, Study of factors influencing the quality of manufacture	
23	Explain the Concept of statistical quality control, Control charts (X, R, P and C - charts)	
24	Explain the Concept of statistical quality control, Control charts (X, R, P and C - charts)	
25	Explain the Concept of statistical quality control, Control charts (X, R, P and C - charts)	
26	Methods of attributes, Concept of ISO 9001-2008	
27	Methods of attributes, Concept of ISO 9001-2009	
28	Quality management system	
29	Quality management system	
30	Registration /certification procedure	
31	Solving numerical	
32	Six Sigma	
33	7S	
34	Lean Manufacturing	
35	Benefits of ISO to the organization	
36	Benefits of ISO to the organization	
37	Doubt Clearing	
38	Revision	
39	Introduction to production, planning and control	
40	Major functions of production planning and control	
41	Major functions of production planning and control	
42	Doubt Clearing	
43	Revision	
44	Methods of forecasting	
45	Routing Scheduling	

46	Dispatching	
47	Controlling	
48	Types of production	
49	Mass production	
50	Doubt Clearing	
51	Batch production	
52	Job order production	
53	Principles of product and process planning	
54	Revision	
55	Scheduling	
56	Revision on CPM and PERT	
57	Solving numerical	
58	Doubt Clearing	
59	Revision	
60	Doubt Clearing	



Signature of the Faculty



Signature of the H.O.D