



LESSON PLAN-(SUMMER-2023)
SWAMI VIVEKANANDA SCHOOL OF ENGG & TECH, BBSR

| Discipline- MECHANICAL | Semester-6TH | Name of teaching faculty- Er. DIPTI LENKA |
|---------------------------|-----------------------------------|--|
| Subject- IE & M | No class allotted/ per week -4 | SEM From date- 13.02.2023 to 23.05.2023 No of weeks- 15 |
| Week | Class day | Theory Topics |
| WEEK-1 | 13.02.2023 | CH-1 Introduction to industrial engineering. Define plant & Plant layout, Selection of Site of Industry. |
| | 14.02.2023 | Describe the objective and principles of plant layout |
| | 15.02.2023 | Explain Process Layout & Product Layout , |
| | 17.02.2023 | Combination Layout & Techniques to improve layout |
| WEEK-2 | 20.02.2023 | Principles of material handling equipment. |
| | 21.02.2023 | Plant maintenance, Importance of plant maintenance. |
| | 22.02.2023 | Break down maintenance, Preventive maintenance., Scheduled maintenance. |
| | 24.02.2023 | CH-1 Doubt clearing Class |
| WEEK-3 | 27.02.2023 | CH-2 Introduction to Operations Research and its applications. |
| | 28.02.2023 | Define Linear Programming Problem. |
| | 2.03.2023 | Solution of L.P.P. by graphical method |
| | 3.03.2023 | Solved Problems based on LPP |
| WEEK-4 | 6.03.2023 | Evaluation of Project completion time by Critical Path Method and PERT |
| | 9.03.2023 | Explain distinct features of PERT with respect to CPM. |
| | 10.03.2023 | Solved Problems based on PERT & CPM |
| | 20.03.2023 | CH-2 Doubt clearing Class |
| WEEK-5 | 21.03.2023 | CH-3 Introduction to inventory control,, Objective of inventory control |
| | 23.03.2023 | Describe the functions of inventories |
| | 27.03.2023 | Benefits of inventory control. |
| | 28.03.2023 | Costs associated with inventory. |
| WEEK-6 | 29.03.2023 | Terminology in inventory control |
| | 31. 03.2023 | Explain and Derive economic order quantity for Basic model. |
| | 3.04.2023 | Solve numerical. Problems on EOQ |
| | 5.04.2023 | Define and Explain ABC analysis |
| WEEK-7 | 6.04.2023 | CH-3 Doubt clearing Class |
| | 11.04.2023 | ch1 & ch2 Class Test |
| | 12.04.2023 | ch -4 Define Inspection and Quality control. |
| | 13.04.2023 | Describe planning of inspection |
| WEEK-8 | 17.04.2023 | Describe types of inspection |
| | 19.04.2023 | Advantages and disadvantages of quality control |
| | 20.04.2023 | Study of factors influencing the quality of manufacture. |
| | 24.04.2023 | Explain the Concept of statistical quality control, |
| WEEK-9 | 25. 04.2023 | Control charts (X, R,P and C - charts). |
| | 26.04.2023 | Methods of attributes. Concept of ISO 9001-2008. |
| | 27.04.2023 | Quality management system, Registration /certification procedure |
| | 28.04.2023 | Benefits of ISO to the organization. |
| WEEK-10 | 1.05.2023 | JIT, Six sigma,7S, Lean manufacturing |
| | 2.05.2023 | Solve related problem |
| | 3.05.2023 | CH-4 Doubt clearing Class |
| | 4.05.2023 | ch3 & ch4 Class Test |

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| WEEK-11 | 8.05.2023 | ch-5 Introduction PRODUCTION PLANNING AND CONTROL |
| | 10.05.2023 | Major functions of production planning and control |
| | 11.05.2023 | Methods of forecasting- Routing , Scheduling |
| | 12.05.2023 | Dispatching & Controlling |
| WEEK-12 | 15.05.2023 | Types of production , Mass production |
| | 16.05.2023 | Batch production |
| | 17.05.2023 | Job order production |
| | 18.05.2023 | Principles of product and process planning |
| WEEK-13 | 19.05.2023 | CH-5 Doubt clearing Class |
| | 22.05.2023 | PREVIOUS 3 YRS SEMESTER EXAM QUESTION DISCUSSION |
| | 23.05.2023 | CH-1 REVISION & IMP QUESTION DISCUSSION |
| HOD SIGN. | DEAN (Academic) SIGN. | PRINCIPAL SIGN. |