

**OBE based Teaching Lesson Plan 2019-20**

**Program: BBA (REGULAR)**

**Course Name: PRODUCTION AND OPERATIONS MANAGEMENT**

**Course Code: M1 15 MC 304**

**Semester: III**

**Lecture hours: 60**

**Faculty in-charge: MS.KOMAL DAVE & MS.SANJANA**

<b>Course Outcome No.</b>	<b>Course Outcomes</b>	<b>T level Indicator</b>
CO1.	Describe the different types of production and responsibilities of production manager.	T2
CO2.	Evaluate the principles and techniques of plant location and lay out and its implications.	T4
CO3.	Choose appropriate technique of material control, method of purchase and selection of supplier.	T4
CO4.	Calibrate the process of production planning and control and statistical process control in the organization.	T4
CO5.	Use the concept of standard time and the technique of motion study.	T3
CO6.	Illustrate the types of maintenance and importance of waste management.	T3

<b>Module No. &amp; Topics Covered</b>	<b>Course Outcome No.</b>	<b>No. of Lecture Hours</b>	<b>Pre-Class Activity</b>	<b>Instructional techniques</b>	<b>Assessment</b>	<b>T level</b>
<b>Module 1:</b> <b>Introduction</b> Meaning, scope and functions. Historical development Functions & responsibilities of a Production Manager, Relationship of production with other functions, Systems or types of production	CO1	08	Brief Introduction and Historical developments to be read	Lecture using PPTs and discussions	Assessing the ability to discuss with industry examples, Q&A	T2
<b>Module 2:</b> <b>Plant layout and location</b> Plant location – steps, factors affecting location Plant layout – theory, plant layout principles Types of layout- advantages and disadvantages Techniques of plant layout Organisation of physical facilities- building, lighting, safety etc – protection measures and importance	CO2	10	Identifying feasible plant location for a business idea taking an example	Lecture using PPTs and discussion	Case based assessments, examples through videos and presentations	T4

<p><b>Module 3 :</b>  <b>Materials Management</b> - meaning, objectives, scope  Material control- concept, types, concept of EOQ, systems and techniques  Purchasing – objectives, categories of purchasing needs, advantages and disadvantages of centralized and decentralized buying  Selection of suppliers, purchasing policies, vendor rating techniques,  Value analysis – value engineering, stores layout system, material handling</p>	CO3	12	Video links shared to be watched and get familiar with material Control techniques	Lecture using PPTs, videos and examples	Industry examples, discussion based assessment	T4
<p><b>Module 4 :</b>  <b>Production planning &amp; control</b>  Production planning: concept, scope &amp; significance and functions – estimating, routing, scheduling and loading –  Production control: dispatching, follow up, inspection &amp; evaluating &amp; corrective action  Quality control - Meaning, objectives  Statistical Quality Control (SQC) , Statistical Process Control (SPC), Total Quality Management (TQM), Quality Control (QC)  Six Sigma – Meaning</p>	CO4	16	Quality control tools used by major companies have to be identified	Lecture and discussions using videos and power point	case study presentations	T4

and significance Lean management						
<b>Module 5:</b> Concepts of standard time Method study – work measurement techniques Work study- need, benefits and technique Time and motion study- procedure, purpose, work sampling, work simplification Charts, diagrams, work measurements	CO5	8	Video links shared to be watched	Lecture through PPTs, charts, explanation using chalk and board	Assessments through Q&A, On the spot presentations on the given topic	T3
<b>Module 6</b> <b>Maintenance Management &amp; Waste Management</b> Maintenance Management – meaning , types of maintenance-merits & demerits, Maintenance scheduling, procedure and tools Scrap & surplus disposal, Automation – meaning, considerations, advantages & forms of automation	CO6	06	General understanding on maintenance management must be read	Lecture through discussions and power point	discussion through examples and Q&A	T3

**Continuous Internal Assessment –**

- Visiting a Production or a Service organisation to understand various production and operation functions
- Power point presentation in class on the given topic.
- Case study analysis

**Books for Reference:**

- Wiley Eastern Ltd Buffa, Modern Production and Operations Management.
- Richard D. Irwin Inc. Brown, Production Management.
- K.N Sontakki, Kalyani Publishers, Production and Operations Management
- C.S.V Murthy, Production and Operations Management, Himalaya Publishers
- K. Aswathappa, G. Sudarsana Reddy, M Krishna Reddy, Production and Operations Management, Himalaya Publishers.