BMS Semester: III
Paper No: 4
Paper: Fundamentals of Production & Operations Management;
Course Code: 3004
Marks: 100 (Internal 25 + External 75)
Credits: 4
Semester End Examination: 75 Marks
Continuous Internal Evaluation: 25 Marks
Duration of the Exam: 3 hours

Objectives:
To students will be able to understand the concept of Production and Operations management and the various techniques required for streamlining the production process.

Internal Evaluation Criteria:
All modes of internal evaluation should be conveyed to the students in the beginning of thesemester.

Criteria	Mode of Evaluation	Marks
Case Study	Case Solution	10
Unit test,viva-voce,assignments,internal objective test, visit to the industries to have practical exposure.	Review Report / presentation	15
	Total	**25**

Module	Unit No.	Detailed Syllabus	Teaching Hours	Marks/ Weightage
I	1	**Introduction to Operations Management** a) Operations Management- Introduction , concept&scope b) Characteristics of Modern Operations function c) Importance of Operations Management d) Systems Approach **Plant Location** a) Introduction& concept b) Steps in locating a plant c) Factors influencing selection of a plant d) Methods used for locating of a plant (Factor Rating, Point Rating, Break Even Analysis, Quantitative Factor Analysis)	15	25
II	2	**Plant (Facility) Layout** a) Introduction b) Objectives of an Ideal Plant Layout c) Factors affecting the Plant Layout decisions d) Types of plant Layout **Just in Time** a) Introduction b) Techniques c) Advantages & Disadvantages	15	25
III	3	**Production Planning (Loading & Scheduling)** a) Meaning of Production Planning b) Production Planning Procedure c) Factors determining Production Control Procedure, Gantt Charts, Sequencing Numericals (nx2, nx3, nxm M/c Numericals) d) Routing & Scheduling, Despatching& Processing e) Production Control	15	25

IV	4	**Maintenance of Plant** a) Introduction b) Causes of Plant Breakdown c) Cost associated with Breakdown d) Preventive & Corrective Maintenance e) Types of Maintenances f) Elements of a Good Maintenance System Ethical Practices related to Production & Operations Management	15	25
		Total	**60**	**100**

Reference Books:

1. Dr. Sanjay Sharma, Introduction to Management,Cyber Tech Publication, 2003
2. L.C. Jhamb, Production Management-Everest Publishing House, 12th edition 2007.
3. S. A Chunawalla& D. R. Patel, Production & Operation Management- Himalaya Publishing House, 6th revised edition, 2013
4. K. Aswathappa& K. ShridharaBhat, Production & Operation Management –Himalaya Publishing House, 2007