



# C. U. SHAH UNIVERSITY, Wadhwan City



## FACULTY OF MANAGEMENT STUDIES MASTER OF BUSINESS ADMINISTRATION (MBA)

SEMESTER II (TWO)

CODE 5MS02POM1

Name of Subject Production & Operations Management

### Teaching & Evaluation Scheme

Teaching Scheme ( Hours)				Evaluation Scheme ( Marks)		
Th	Tu	P	Total	Sessional	External	Total
4	0	0	4	30	70	100

**Objective** Terminologies used in production lines and increasing the effectiveness of the production line.

**Prerequisite** Basic knowledge of Production and Materials Management.

### Course outline

Sr. No.	Course Contents	Number of Hours
1	Nature and Scope of Production and Operations Management, Types of Manufacturing Systems (production Processes)	04
2	Facility Location with examples	05
3	Facility Layouts, Layout Planning and Analysis, Line Balancing— Problems	06
4	Understand the basis of Inventory Management decisions	04
5	The hierarchical approach to planning and various methods of Inventory Management	06
6	Capacity and Aggregate production planning. Material Handling – Principles- Equipments	05
7	Project management and Operations Scheduling (Gantt chart, CPM and PERT methods)	08
8	Project crashing, Job sequencing (n-jobs on one machine and n jobs on m-machines)	08
9	JIT and Lean Manufacturing Systems	03



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10	TQM and Six-sigma, ISO 9000 and other ISO series	03
11	Statistical Quality Control, Acceptance Sampling	04
12	Industrial Safety and Safety Management	04
<b>Total Hours</b>		60

### Learning Outcomes

**Theoretical Outcomes** Understanding the importance of quality in the manufacturing sector.

**Practical Outcomes** Application of increasing the productivity of the organization with optimum usage of available resources and reaping profits by adhering to the prescribed quality.

### Teaching & Learning Methodology

- Lectures
- Case Studies
- Class Participation

### Books Recommended

1. '**Operation Management for Competitive Advantage**', R.B.Chase, F.R. Aquilano, N.J.Agrawal N.K., TMH.
2. '**Production & Operation Management**', Kanishka Bedi, OUP.
3. '**Production & Operation Management**', K.Aswathappa & K. Shridhara Bhat, Himalaya.

### E-Resources

1. <http://alison.com/courses/Introduction-to-Operations-Management>
2. <http://www.masterclassmanagement.com/BusinessManagementCourse>