

K L UNIVERSITY
SCHOOL OF MANAGEMENT SCIENCES
SEMESTER – II
Course Code: MBAC 205

Course Title : OPERATIONS MANAGEMENT

UNIT I: Introduction to operations management: Overview of operations Management [possibly with video]; Functions of operations manager; Types of production processes and their suitability; Just-in-time production; manufacturing operations versus service operations.

UNIT II: Production Planning and Control: Steps/levels in production planning and control; Strategic planning, aggregate planning, shop-floor planning; Planning devices – Gantt Chart, Master production schedule, PERT/CPM.

UNIT III: Plant Location and Layout: Factors influencing facility location decision; Location modeling; Factors influencing layout decision; Facility layout modeling; types of material handling equipment and their purposes.

UNIT IV: Productivity: Factors affecting productivity; Job design; Work study; Work measurement; Ergonomics; Kaizen

UNIT V: Materials and Quality Management: Costs associated with inventory; Economic order quantity; Acceptance sampling; Control charts; Six sigma; TQM.

Text book:

1. Norman Gaither and Greg Frazier, (2008) **Operations Management: Ninth International Student Edition, South-Western, Thomson Learning Inc.**

Reference Books:

1. Chase et al, Production and Operations Management
2. EVERETT E. ADAM Jr. and RONALD J. EBERT, Production and Operations Management: Concepts, Models and Behaviour, 5th Edition 2009
3. S N Chary, Production and Operation Management, Tata McGraw-Hill Company, New Delhi.