

ELECTIVE COURSE – VI : WORLD CLASS MANUFACTURING

UNIT I Strategic decisions in Manufacturing Management

- Choice of Technology, Capacity
- Layout / Automation in Material handling systems
- Emerging trends

UNIT II Aggregate planning and Master Production Scheduling

- Materials Requirement Planning (MRP)
- Manufacturing Resources Planning (MRP – II)
- Implementation Problems / Indian experience

UNIT III Review of Operations Scheduling Process

- Job Shop Scheduling
- Batch Production Scheduling
- Flow Production Line Balancing

UNIT IV Just-in-Time System

- Pull System – Use of Kanban
- JIT Purchase – Source Development, Buyer-seller relations
- Indian Experience

UNIT V Total Productive Maintenance

- Objective of TPM – Total System effectiveness
- Break-down Maintenance }
Preventive Maintenance } Productive Maintenance
Predictive Maintenance }
Condition Monitoring System }
- Maintenance Prevention
- Main ability Improvement
- Reliability Improvement
- Total Employee Involvement and Small Group Activities

Recommended Text Book:

1. Production and operations Management 2nd Edition – Panneer Selvam, ISBN 978-81-203-2762-2, PHI Learning Private Ltd., New Delhi 110 001 E.Mail. phi@phindia.com

References

1. Modern Production – Operations Management EC Wood S.Baffa & Rakesh, K. Sarin, John Wiley -8th Edition.
2. Operation Management Design Planning and Control for Manufacturing and Services James B. Dilworth, McGrawHill International Edition
3. Industrial Engineering and Management O.P. Khanna, Dhanpatrai Publications PVT Ltd., New Delhi.