Production & Operations Management
Code: ADMN-318

Course Name: Production & Operations Management
Course Type: Core

Pre-Requisite: Concentration

Course Level:

<table>
<thead>
<tr>
<th>Year 1:</th>
<th>Semester 1</th>
<th>Semester 2</th>
<th>Summer Semester</th>
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<tbody>
<tr>
<td>Year 2:</td>
<td>Semester 1</td>
<td>Semester 2</td>
<td>Summer Semester</td>
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<tr>
<td>Year 3:</td>
<td>Semester 1</td>
<td>Semester 2</td>
<td>Summer Semester</td>
</tr>
<tr>
<td>Year 4:</td>
<td>Semester 1</td>
<td>Semester 2</td>
<td>Summer Semester</td>
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Course Description:
This course provides proper understanding about different issues related to Production & Operation functions of an organization.

Objectives:
1. To equip students with the required skills in the field of Production & Operation Management.
2. To make students realize about the importance of production planning, plant layout & maintenance and work study etc.

Learning Outcomes:
On the completion of this course, the students are expected to have better understanding in the field of Production & Operations Management.

Skills to be developed throughout the Course:
Students will develop their analytical and oral communication skills via case study work carried out in seminar sessions. Information technology and written communication skills will be developed when completing the written assignment which will also test student’s creative skills and their abilities to present theoretical information in practical situations.
Students are encouraged to make use of IT facilities particularly web sites to support research and reading.
Learning Resources:

1. Text Books

<table>
<thead>
<tr>
<th>Author</th>
<th>Title</th>
<th>Publisher</th>
<th>Year</th>
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</thead>
<tbody>
<tr>
<td>Adam</td>
<td>Production &amp; Operations Management</td>
<td>Pearson Education</td>
<td>2007</td>
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</table>

2. e-Library Reserves

- [http://www.emeraldinsight.com/insight](http://www.emeraldinsight.com/insight)
- [http://www.en.wikipedia/wiki/listof_management_topics](http://www.en.wikipedia/wiki/listof_management_topics)

3. Internet

- [Ebsco Business Source Premier](http://www.emeraldinsight.com/insight): A database containing several hundred key business and management journals with full text articles updated daily.
- [Courseware](http://www.en.wikipedia/wiki/listof_management_topics): Specific research support resources and documents, selectively posted to complement and build upon materials available in proctor’s methodological text. Such documentation will typically be posted regularly.

4. Journals

- Journal of Product Innovation Management
- Harvard Business Review
- International Journal of Project Management
- Journals of Operations Management

Delivery and Teaching Strategy: (Lecture, Online, Physical, blended, self directed through CD, web based courses and DVD)

Methods of Instruction: It would be based on Lecture, demonstration and assignment review. Questions are encouraged and participation is expected.

Assessment Strategy:

a. First Mid Term Exam: 20 Marks to be held on.......Day,........Month, 20..
b. Second Mid Term Exam: 20 Marks to be held on.......Day,......Month, 20..
c. Attendance, Participation & Assignment: 10 Marks
d. Final Exam: 50 Marks
e. Total: 100 Marks
**Syllabus Change Policy:** This syllabus is a guide for the course and is subject to change with advanced notice.

<table>
<thead>
<tr>
<th>Course Contents:</th>
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<tbody>
<tr>
<td><strong>Unit 1. Production and Operations:</strong> Function and its relations to other management functions of an organization. Work System Design: Process planning, Methods study, Facilities layout, Line Balancing, Work Measurement</td>
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<tr>
<td><strong>Unit 2. Work Flow Systems:</strong> Pull and push systems, MRP, MRP-II, JIT, Manufacturing Planning and Control: Aggregate production planning, Master Production Scheduling, Shop Scheduling and Shop Floor Control. Demand Management, bottlenecks and balance matching demand and supply, Logistics, Location and franchising</td>
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<td><strong>Unit 3. Materials Flow Control:</strong> Raw Materials and WIP inventory control, JIT purchasing, Lead-time control, Quality Assurance and Control, Statistical process control, Process capability improvement, Sampling inspection, Total Quality Control, Quality Circle, Kaizen and other small group activities.</td>
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<tr>
<td><strong>Unit 4. Maintenance Planning and Management:</strong> Corrective, Preventive and Predictive maintenance, Replacement analysis, TPM. Manpower Scheduling: Techniques of manpower scheduling. Project Management: PERT/CPM, Project Scheduling.</td>
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