Course Description

- Instructor
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- Class time
  - Sunday-Tuesday 16:30-18:30
  - Wednesday 09:00-12:00

- Course evaluation
  - Mid-term (30%)
  - Final exam (40%)
  - Quiz (5%)
  - Exercise (10%)
  - ERP Lab (15%)
Course Description (Continued ...)

- **Mid-term session:**
  - Sunday: 8th Azar 1394, 16:30 ~ 18:00

- **Final Exam:**
  - Sunday: 27th Dey 1394, 09:00 ~ 10:30

- **Reference:**

Course Description (Continued ...)

- **Mid-term session:**
  - Sunday: 8th Azar 1394, 16:30 ~ 18:00

- **Final Exam:**
  - Sunday: 27th Dey 1394, 09:00 ~ 10:30

- **Reference:**
Course Description (Continued..)

* Contents:
  * Enterprise Management
  * Operations Management
  * The Evolution of ERP Systems: A Historical
  * Organizations and organizational structures
  * Scheduling
  * Purchasing and inventory management
  * Marketing considerations
  * ERP selection and implementation

Course Description (Continued..)

* Contents:
  * Enterprise Management
    * History of Enterprise Resource Planning
  * The Theory of Constraints and ERP
  * Sales and Operations Planning
  * Buffer Resource Strategy
  * Enterprise Resource Management
  * Integrating the Supply Chain to Reap the Rewards
  * Strategic Sourcing and Procurement
Course Description (Continued..)

- Contents:
  - Operations Management
    - Operations Planning (Material and Capacity Requirements Planning)
  - Product Life Cycle Management
  - Manufacturing Execution System
  - Distribution

Course Description (Continued..)

- Contents:
  - Organizations and organizational structures
    - Functional and project organizations, typical goals and performance measures
  - The job shop, flow shop and group technology
  - Operations Management and its interface with other functional areas: restructuring the order fulfillment process
  - Functions and scenarios in the Operations Trainer Problems
Course Description (Continued..)

- Contents:
  - Scheduling
    - The job shop, implementing priority rules
    - Scheduling the flow shop
    - The just in time approach (JIT)
    - The dynamic shop - expediting and changing priorities
    - The drum buffer rope approach (DBR)
    - Scheduling in the Operations Trainer

Course Description (Continued..)

- Contents:
  - Purchasing and inventory management
    - The need for outsourcing
    - Outsourcing and make or buy decisions
    - Suppliers management
    - Inventory management - benefit and cost considerations
    - Inventory management - models and their assumptions
    - The dynamics of the order fulfillment process - early studies and the Operations Trainer
    - The purchasing function in the Operations Trainer
Course Description (Continued..)

* Contents:
  * Marketing considerations
    * Make to stock, make to order, assemble to order policies
    * The Master Production Schedule
    * Lead time and time based competition
  * Quality and its management - quality based competition
  * Cost considerations and cost based competition
  * Dynamic aspects - marketing in the Operations Trainer

Course Description (Continued..)

* Contents:
  * ERP selection and implementation
    * ERP System Requirements
    * Selecting the Right ERP System
    * Data Record Accuracy
    * Implementation—Generalized Industry Application
    * Repetitive Manufacturing Application
    * Process Industry Application
    * Remanufacturing
    * Project Manufacturing
    * Customer Relationship and Service