
SYLLABUS

Date/ Revision April 17, 2017
Faculty Business and Social Sciences
Approval Dr. Samuel Prasetya

SUBJECT : PROJECT IN OPERATION MANAGEMENT

1. Identification of Subject:

Name of Subject : Project in Operation Management
Code of Subject : PROM-4000
SKS / ECTS : 3 SKS
Semester : 8
Study Program : B-AVM/IBA/MGT
Lecturer : Team Teaching

2. Competency

After having the course, students are expected to:

- define objectives and deliverables in a project environment
- understand the role of project management in contemporary business practice
- write a project proposal including preliminary budgets and project controls
- apply planning methods including resource, time and cost planning
- understand the importance of risk assessment in developing alternate plans and emergency procedures
- be able to use graphical methods for presenting project schedules and plans
- Be able to utilize contemporary techniques and technology for project management.
- apply course material to a project using
- MS Project software

3. Description of Subject:

This course provides a general introduction to operations management of manufacturing systems. It will explore strategies for operating and optimizing the production of products in Different varieties and volumes with limited resources and in competitive environments. The impacts of design decisions on manufacturing performance and the physical organization of plants are explored through various DFM and plant layout strategies. Formal project management methods will be introduced reflecting the growing use of continuous improvement through project management.

4. Learning Approach

Approach : Combination of expository - inquiry and collaborative
Method : Discussions, questions/answers, sample problems/cases
Student Task : Quizzes and group projects
Media : LCD projector

5. Evaluation

- a) Non-attendance maximum : 25%
- b) Homework/Projects : 20 points
- c) Presentation, Simulation : 10 points
- d) Quiz : 10 points
- e) Final Examination : 60 points
- Total : 100 points

6. Contents/Topics of Lecturing:

| Week | Content / Topics of Lecturing | Text Book Chapter | Remark |
|------|---|-------------------|---|
| 1 | Introduction to Operations Management <ul style="list-style-type: none"> • Basic concept of Operation Management • The scope of seminar in Operation Management | Chapter 1 | |
| 2 | <ul style="list-style-type: none"> • Competitiveness, Strategy, and Productivity • Forecasting | Chapter 2 | Find articles on this subject |
| 3 | <ul style="list-style-type: none"> • Product and Service Design • Strategic Capacity Planning for Products and Services | Chapter 3 | Find articles on this subject |
| 4 | PROJECT | | |
| 5 | <ul style="list-style-type: none"> • Process Selection and Facility Layout • Work Design and Measurement | Chapter 4 | Find articles on this subject |
| 6 | <ul style="list-style-type: none"> • Location Planning and Analysis • Management of Quality | Chapter 5 | Find articles on this subject |
| 7 | PROJECT | | |
| 8 | Semester Break: Only Make-Up Classes | | |
| 9 | <ul style="list-style-type: none"> • Quality Control • Aggregate Planning and Master Scheduling | Chapter 6 | Find articles on this subject |
| 10 | <ul style="list-style-type: none"> • MRP and ERP • Inventory Management | Chapter 7 | Find articles on this subject |
| 11 | PROJECT | | |
| 12 | <ul style="list-style-type: none"> • JIT and Lean Operations • Supply Chain Management | Chapter 8 | Find articles on this subject |
| 13 | <ul style="list-style-type: none"> • Scheduling • Project Management | Chapter 9 | Find articles on this subject |
| 14 | PROJECT | | |
| 15 | <ul style="list-style-type: none"> • Project Management • Linear Programming | Chapter 10 | Find articles on this subject and submit the assignment on final exam |
| 16 | Semester Break: Only Make-Up Classes | | |
| 17 | Final Examination | | |

7. Book Reference:

a) Main Textbook

William J. Stevenson, Operations Management, 11th edition, McGraw-Hill

b) Supplement Articles

Various online journal articles