Syllabus for the course: Operations Management.

Index

1. Course description data.................................................................2
2. Presentation of the course..............................................................3
3. Competences to be achieved in the course........................................3
4. Contents.........................................................................................4
5. Evaluation.......................................................................................4
6. Bibliography and teaching resources...............................................5
7. Methodology....................................................................................5
1. Course description data

Name of the course: **Operations Management**.

Academic Year: 2015-2016     Term: **Second**

Degree: **Grau en International Business Economics**

Course code: **21140**

Number of credits ECTS: **5**

Teaching language: **English**

Faculty: **Ernest Solé Udina (Theory and Seminars)**

ernest.sole@upf.edu

Office hours: **Wednesday, by appointment**.

**Questions on the course contents will not be replied by email.**

**Schedule:**

<table>
<thead>
<tr>
<th>THEORY</th>
<th>Monday, Tuesday: 13.00h to 14:30h</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEMINARS</td>
<td>S101</td>
</tr>
<tr>
<td></td>
<td>Friday</td>
</tr>
<tr>
<td></td>
<td>10:30 to 12.00</td>
</tr>
</tbody>
</table>

Group change not allowed unless made formally via Secretary. In case you attend another subgroup, your quiz could not be graded.
2. Presentation of the course.

Operations Management (OM) is one of the key functional areas in any organization or company that deals with the production of goods and services. These activities take place in all companies, either public or private. OM is concerned with managing the processes that transform inputs (materials, labor, energy, customers) into outputs (goods and services). Everything we wear, eat, use, read or play with, has been produced, and an operations manager organized its production. This course is concerned with the tasks, issues and decisions of those operations managers who have made the services and products on which we all depend.

The OM field faces many challenges that are consequence of globalization, new product proliferation, technology advances, and integration with other functional areas of the company (marketing, finance, etc.).

In this course we are going to study the main concepts, tools and quantitative models that companies use to manage their Operations. We are going to do so from a very practical standpoint, studying business cases and solving exercises.

3. Competences to be achieved in the course.

The objective of this course is to introduce students to the different production and operations activities that take place in companies and organizations, and to examine how strategic and tactical decisions are made.

General competences:
- Master the computer tools and their main applications for the ordinary academic activity.
- Have a proactive attitude in the desire to know what is ignored, essential throughout the entire training process and all professional activity with projection.
- Ability to apply learned knowledge with flexibility and creativity and adapt them to new situations and contexts.
- Demonstrate a level of knowledge with flexibility and creativity and adapt them to new situations and contexts.
- Demonstrate a level of knowledge sufficient for professional performance.
- Use the appropriate information in formulating proposals and troubleshooting.
- Ability to communicate effectively as a professional level oral and written, also using the advantages offered by ICT.
- Identify the key factors of a problem.
- Apply relevant knowledge and procedures to a range of complex situations.

Specific competences.
- Be able to identify the main functions of the area of Operations Management.
- Ability to relate the area of operations with business strategy and it relationship with other functional areas of business such as marketing or logistics function.
- Ability to identify and plan production and operations activities of a company, such as product and process design, total quality, production planning, inventory management.
- Ability to use basic analytical tools and methods mentioned above for the planning and management in the area of production and operations.
4. Contents

1. Introduction to Operations Management
2. Product and Service Design
3. Process Analysis
4. Just-in-time Production System and Lean Manufacturing
5. Forecasting
6. Aggregate Planning
7. Queuing Management
8. Material Requirements Planning
9. Inventory Management
10. Scheduling

5. Evaluation

The course evaluation is as follows:

- 65% final exam.
  Multiple choice test with theory and exercises
  The exam may include questions related to all material seen and discussed in class, in seminars, as well as all material posted on the Aula Global.

- 35% Quizzes during seminars
  6 quizzes (1 per seminar) where the top 5 count 7% each.

- Up to 5% (Additional). Exercises and Case presentations in class.

**Make up evaluation:** Only the final exam can be made up during the period established by the University in the subsequent term. Only students that have taken the final exam and obtained a failing overall grade in the course are eligible to take this make up final exam.

**IMPORTANT:** to pass the course a minimum average grade of 5 (out of 10) is needed as well as a minimum grade of 4 (out of 10) in the final exam. In case you don’t obtain at least a 4 in the exam, the final grade can’t be greater than 4.5. Same rule applies to the make up exam.

**NOTE:** Evaluation for UPF ERASMUS students outside Catalonia, or for those that cannot attend lectures or seminars will be identical (as seen above), with no exceptions. In case of absence, no absence notes will be accepted.
6. Bibliography and Teaching Resources

Basic Bibliography:

  Warning: There is a book by the same authors “Operations and Supply Chain Management. The Core”, which is not the same.

Supplementary bibliography:


7. Methodology

The teaching/learning activities will be:

- Lectures (face-to-face in the classroom): theoretical background and basic examples will be taught.
- Seminars (face-to-face in the classroom): seminars where practical exercises will be discussed among students, guided by the instructor. These activities require previous preparation by the student.
- Individual quizzes during the last half an hour of the seminar. Only quizzes form students attending their seminar will be graded.
- Team work in some practical cases carried out during lectures.
- Independent work outside the classroom, individual or in teams.