SYLLABUS 2019 - 2020

SUPPLY CHAIN MANAGEMENT

General overview of the module
After the 1st quarter understanding the basis of Supply Chain Design, the subject focuses on management and execution of main elements of Global Supply Chain, as well, their impact in the Profit and losses account.
One of the key objectives is to introduce basics aspects of the strategy of Operations and Supply Chain Directors, providing concepts and techniques, helping to understand the new role of those areas into the Company strategy.

The student will learn the main tools to manage the Global Supply Chain, impacts of their decisions, and key elements of control.
Significantly, decisions related to the management of supply chain, supplier management, planning processes, production control, customer service and Supply Chain Control through appropriated Balance Scorecard.

Key Information
- **Module Code:** 13622
- **Module Title:** Supply Chain Management
- **Credit Points:** 6
- **Module Status:** Compulsory
- **Module Block:** Business Technologies
- **Course Title:** BSc in Engineering and Management
- **Module Theme:** Production and Logistics

Faculty

**Lecturer**
Jeremías Moragues Pons

**Tutorial hours**
Friday from 16:00 to 18:00

Recommended prior knowledge

<table>
<thead>
<tr>
<th>Code</th>
<th>Module</th>
</tr>
</thead>
<tbody>
<tr>
<td>13621</td>
<td>Supply Chain Design</td>
</tr>
</tbody>
</table>

Required Reading:
- Logistic and Supply Chain Management. 4a Ed. Prentice Hall, 2.010. Martin Christopher
- Operations Management. 6a Ed. Prentice Hall. Nigel Slack, Stuart Chambers, Robert Johnston
- Supply Chain Management for dummies. Daniel Stanton
Module objectives
Learning outcomes

KEY COMPETENCES
CB2 - That students are able to apply their knowledge to their work in a professional manner and have the capabilities typically demonstrated through the preparation and defense of arguments and solving problems within their study area.
CB4 - That students can communicate information, ideas, problems, and solutions to both specialized and non-specialized public.
CB5 - That the students have developed those learning skills necessary to undertake further studies with a high degree of autonomy.
01 – Ability to work in a team in multilingual, multidisciplinary and multicultural environments.
02 – Use the techniques, skills and technological and economic tools necessary for the professional practice of Engineering and Business Management.
04 – Learn to analyze the different elements that interact in the business decision making.
05 - Know how to express oneself in formal, graphic and symbolic languages necessary to be understood in engineering environments and business
06 - Ability to make decisions in an environment of business certainty and uncertainty.

SPECIFIC COMPETENCIES
03 - Plan the implementation of business strategies.
07 - Acquire the necessary knowledge of the supply, production, distribution, and logistics systems of the company.
09 - Define the potential of companies to meet the customer’s needs.

Teaching and learning methods

<table>
<thead>
<tr>
<th>Teaching Unit</th>
<th>Classroom theory</th>
<th>Classroom practice</th>
<th>Laboratory practice</th>
<th>Field practice</th>
<th>Computer practice</th>
<th>Autonomous student work</th>
<th>TOTAL HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>5</td>
<td>7</td>
</tr>
<tr>
<td>2</td>
<td>6</td>
<td>3</td>
<td>-</td>
<td>-</td>
<td>3</td>
<td>15</td>
<td>27</td>
</tr>
<tr>
<td>3</td>
<td>6</td>
<td>6</td>
<td>-</td>
<td>-</td>
<td>3</td>
<td>20</td>
<td>33</td>
</tr>
<tr>
<td>4</td>
<td>8</td>
<td>4</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>20</td>
<td>31</td>
</tr>
<tr>
<td>5</td>
<td>4</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>15</td>
<td>22</td>
</tr>
<tr>
<td>6</td>
<td>4</td>
<td>3</td>
<td>-</td>
<td>-</td>
<td>3</td>
<td>15</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>3</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>15</td>
<td>20</td>
</tr>
<tr>
<td>TOTAL HOURS</td>
<td>32</td>
<td>19</td>
<td>0</td>
<td>0</td>
<td>9</td>
<td>105</td>
<td>165</td>
</tr>
</tbody>
</table>

Teaching and learning units
1. Supply Chain Management
2. Supplier Management and Procurement
   2.1 Supplier Management
   2.2 Material Procurement processes
   2.3 Role Play Negotiation
3. Production Control and Management
   3.1 Production Planning processes
   3.2 Production Systems
   3.3 Production Control
   3.4 Warehouse Management
   Exercises: MPS, ATP, APP, MRP
4. Distribution and Transport
   4.1 Logistic Cost
   4.2 Logistic Operators
   4.3 Transport Management
   Exercise: Logistics Outsourcing
6. Supply Chain Coordination
   6.1 Sales and Operations Planning
   6.2 Balanced Scorecard

Summary & Business Case
Assessment

<table>
<thead>
<tr>
<th>Overview</th>
<th>N° of activities</th>
<th>Weighting (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continuous assessment</td>
<td></td>
<td>40%</td>
</tr>
<tr>
<td>Academic assessments: Individual activities / exercises</td>
<td>3</td>
<td>20%</td>
</tr>
<tr>
<td>Academic assignments: Group work participation / presentations</td>
<td>1</td>
<td>20%</td>
</tr>
<tr>
<td>Exam</td>
<td></td>
<td>60%</td>
</tr>
<tr>
<td>Open answer response</td>
<td>1</td>
<td>40%</td>
</tr>
<tr>
<td>Multiple choice</td>
<td>1</td>
<td>20%</td>
</tr>
</tbody>
</table>

Student evaluation will consist of both continuous and summative assessments:

1. **Continuous assessment**: The submission of practical work either carried out individually or in groups and participation in the different activities both inside the classroom, such as the analysis, summation and discussion of required readings, and outside including company visits, will account for this mark. This part of the assessment carries a weighting of 40% towards the final mark.

2. **Summative assessment**: These tests can combine both theoretical and practical content. This part of the assessment carries a weighting of 60% towards the final mark.

Continuous assessment is attendance based and non-recoverable. Therefore, the mark obtained for this part of the assessment will serve for both the first summative assessment and any subsequent repeat if required. The repeat will only be available at the end of the semester.

In order to pass the module an average of more than 5 in summative tests must be obtained. The final mark will be calculated by the average weightings of the summative assessment in combination with the continuous assessment. The final mark achieved must be 5 or above to pass the module.

Attendance is compulsory to ensure that you extract the most value from the module and meet the learning requirements. Therefore, session absence accounting for more than 15% of the prescribed hours will result in the inability to be awarded a mark for continuous assessment. Consequently, the maximum mark that can be achieved will be that obtained solely from the summative assessments.

Students enrolling in the module for the second time will receive specific instructions from their lecturer on what is required for them to pass the continuous assessment element. The final mark will be obtained by combining the summative assessment (80%) and the continuous assessment (20%), having to gain a final mark equal to or greater than 5 to pass the module.

All students must comply with the rules of writing, spelling and grammar in the development of their work and their assessment tests.