Teaching Guide			
Identifying Data			2020/21
Subject (*)	Fashion Supply Chain Management II: Operations Management	Code	710G03017
Study programme	Grao en Xestión Industrial da Moda		

Descriptors				
Cycle	Period	Year	Type	Credits
Graduate	2nd four-month period	Second	Obligatory	6

Language	English		
Teaching method	Face-to-face		
Prerequisites			
Department	Empresa		
Coordinador	Crespo Pereira, Diego	E-mail	diego.crespo@udc.es
Lecturers	Crespo Pereira, Diego Mato Santiso, Vanessa	E-mail	diego.crespo@udc.es vanessa.mato@udc.es
Web			
General description			
Contingency plan	1. Modifications to the contents: None 2. Methodologies *Teaching methodologies that are maintained *Teaching methodologies that are modified All the methodologies are maintained, but the lectures will be online if required by the COVID 19 measures. 3. Mechanisms for personalized attention to students Teams, moodle and email. 4. Modifications in the evaluation None. *Evaluation observations: 5. Modifications to the bibliography or webgraphy None.		

Study programme competences / results	
Code	Study programme competences / results
A3	To develop competencies for interpersonal relations and interaction with external and internal stakeholders (customers, suppliers, media, partners?)
A9	To master the logistics process of a fashion firm from a global perspective, from procurement to manufacturing and transportation, with a special focus on the typical textile industry processes: selection of materials and fabrics, patternmaking, manufacturing, etc, ?
A13	To know the impact of technology on the different processes of the textile industry
B1	That students demonstrate that they acquired and understood knowledge in a study area that originates from general secondary education and that can be found at a level that, though usually supported by advanced textbooks, also includes aspects implying knowledge from the avantgarde of its field of study
B2	That students know how to apply their knowledge to their job or vocation in a professional form, and have the competencies that are usually demonstrated through elaboration and advocacy of arguments and problem resolution within their field of study
B3	That students have the capacity to collect and interpret relevant data (normally within their field of study) in order to issue judgements that include a reflection upon relevant topics in the social, scientific or ethical realm
B4	That students may convey information, ideas, problems and solution to the public, both specialized and not
B5	That students develop those learning skills that are needed to undertake ulterior studies with a high degree of autonomy
B8	Capacity to plan, organize and manage resources and operations

B9	Capacity to analyse, diagnose and take decisions
C2	Mastering oral and written expression in a foreign language.
C3	Using ICT in working contexts and lifelong learning.
C7	Developing the ability to work in interdisciplinary or transdisciplinary teams in order to offer proposals that can contribute to a sustainable environmental, economic, political and social development.
C8	Valuing the importance of research, innovation and technological development for the socioeconomic and cultural progress of society.
C9	Ability to manage times and resources: developing plans, prioritizing activities, identifying critical points, establishing goals and accomplishing them.

Learning outcomes			
Learning outcomes	Study programme competences / results		
To know the basic concepts of operations management	A3 A9 A13	B1 B2 B3 B4 B5 B8 B9	C2 C7 C8
To know how to solve problems related to operations management	A9 A13	B1 B2 B3 B4 B8 B9	C3 C7 C9
To become familiar with the technologies used in the operations management area	A3 A9 A13	B2 B3 B8 B9	C2 C3 C8 C9

Contents	
Topic	Sub-topic
Process design and capacity planning.	Introduction to operations strategy. Productivity. Capacity and utilization. Long term capacity planning. Queuing models.
Quantitative methods for operations management.	Linear optimization. Non linear problems. Solver. Metaheuristics. Modelling and simulation.
Inventory management.	Basic concepts. Types. ABC classification.
Inventory costs.	Carrying costs. Ordering costs. Opportunity costs.
Inventory models.	Methods based on the Economic Quantity Order. Safety stocks. Continuous and periodic review policies. Methods based on the Newsvendor model.
Project management.	Tasks. Resources. Costs.
Schedulling.	Single server schedulling. Parallel servers. Flow line schedulling. Priorities.
Quality Management.	ISO 9001. Six sigma methodology.
Lean Enterprise.	Just in Time. Lean manufacturing. Types of waste. Methods to avoid waste. 5S methodology.

Planning				
Methodologies / tests	Competencies / Results	Teaching hours (in-person & virtual)	Student?s personal work hours	Total hours

Supervised projects	A9 B2 B3 B4 B8 B9 C2 C7 C9	1	36	37
ICT practicals	A9 A13 B1 B3 B4 B8 B9 C3 C8 C9	12	28	40
Mixed objective/subjective test	A3 A9 A13 B1 B2 B3 B5 B9 C9 C2	1	19	20
Problem solving	A9 B3 B4 B8 B9 C3 C7 C9	8	12	20
Guest lecture / keynote speech	A9 A13 B1 B2 C3 C8	20	10	30
Personalized attention		3	0	3
(*)The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.				

Methodologies	
Methodologies	**Description**
Supervised projects	Project to be done in groups as proposed by the teachers
ICT practicals	Solving practical problems with software (Excel, ProjectLibre, Flexsim, QuantumXL)
Mixed objective/subjective test	Exam on the contents of the subject
Problem solving	Solving practical problems
Guest lecture / keynote speech	Lectures on the content of this subject

Personalized attention	
Methodologies	**Description**
Supervised projects	During tutorial time, students can meet the teachers to clarify the doubts of the subject, as well as the ones concerning the supervised projects

Assessment			
Methodologies	**Competencies / Results**	**Description**	**Qualification**
Supervised projects	A9 B2 B3 B4 B8 B9 C2 C7 C9	Assesment of the team project proposed by the teachers	35
ICT practicals	A9 A13 B1 B3 B4 B8 B9 C3 C8 C9	Practical test using software	35
Mixed objective/subjective test	A3 A9 A13 B1 B2 B3 B5 B9 C9 C2	Exam on the theoretical contents of the subject	30

Assessment comments

The "Students with recognition of part-time dedication and academic exemption waiver" will communicate their situation to the teaching staff of the subject at the beginning of the course, according to the "Norm that regulates the regime of dedication to the study of the students of degree in the UDC "(Art.3.be 4.5) and the"Standards of evaluation, review and claim of the qualifications of the studies of degree and master's degree" (Art. 3 and 8b). In this case, attendance to the classes will not be a requirement, but these students must submit the cases and exercises done in the classroom and their qualification will be the same as the rest of the students.
The aforementioned evaluation criteria will apply to both the first and the second opportunity.
The grade of 'Not present' will only be given to students who only participated in course activities worth under 20% of the final grade.
The grade obtained by students who pass a portion of the course with a mixed exam (partial exam), will be valid only for the ongoing academic year. If a student in such situation fails to pass the complete course in either the first opportunity or the second opportunity, his/her final grade will be 'Fail', implying that he/she will have to re-take the whole course during incoming academic years.
Students wishing to improve their final test exam grade will be able to do so only after applying to the professors and securing their authorization.
Students taking the anticipated December opportunity will be subject to the same criteria as those applying to second opportunity.
It is forbidden to access the classroom with any device allowing for data transmission and/or warehousing when any of the evaluations is taking place.

Sources of information	
Basic	- Collier, D.A., Evans, J.R. (2017). OM: Operations and supply chain management. Boston: Centage Learning - Heizer, J., Render, B. (2013). Operations Management. Pearson - Slack, Nigel; Chambers, Stuart; Johnston, Robert (2007). Operations Management. Pearson - Verma, Boyer (2010). Operations & Supply Chain Management. World class theory and practice.. Pearson - Londrigan, Michael P. (2018). Fashion supply chain management. Bloomsbury Publishing Inc O profesorado da materia proporcionará bibliografía específica para cada un dos temas.
Complementary	- Heizer, J., Render, B. (2015). Dirección de la producción y de operaciones. Decisiones estratégicas. Prentice Hall - Alessandra Vecchi (2017). Advanced Fashion Technology and Operations Management. Business Science Reference

Recommendations
Subjects that it is recommended to have taken before
Fashion Supply Chain Management I: Procurement/710G03005
Subjects that are recommended to be taken simultaneously
Subjects that continue the syllabus
Fashion Supply Chain Management III: Logistics and Transportation/710G03019
Other comments
In order to help in the achievement of a sustained immediate environment and meet the objective of action number 5: "Healthy and sustainable environmental and social teaching and research" of the "Green Campus Ferrol Action Plan", it will be encouraged, as far as possible, that the delivery of the documentary works in this subject was done in a virtual format and/or computer support, through Moodle and without the need to print them.If paper delivery is necessary, the following guidelines will be followed:Plastics will not be usedDouble-sided prints will be madeRecycled paper will be usedThe printing of drafts will be avoided