Teaching Guide			
Identifying Data			2023/24
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	Garcia del Valle, Alejandro	E-mail	alejandro.garcia.delvalle@udc.es
Lecturers	Crespo Pereira, Diego Garcia del Valle, Alejandro	E-mail	diego.crespo@udc.es alejandro.garcia.delvalle@udc.es
Web	https://humanidades.udc.es/estudos/gim		
General description			

Study programme competences	
Code	Study programme competences
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

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**	**Ordinary class hours**	**Student?s personal work hours**	**Total hours**
Guest lecture / keynote speech	A9 A13 B1 B2 C3 C8	20	10	30
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	11	18	29
Problem solving	A9 B3 B4 B8 B9 C3 C7 C9	8	12	20
Mixed objective/subjective test	A3 A9 A13 B1 B2 B3 B5 B9 C2 C9	1	19	20
Practical test:	A3 A9 A13 B1 B2 C3 C8	1	10	11
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
Guest lecture / keynote speech	Lectures on the content of this subject
Supervised projects	Projects to be done as proposed by the teachers
ICT practicals	Solving practical problems with software (Excel, ProjectLibre, Flexsim, QuantumXL)
Problem solving	Solving practical problems
Mixed objective/subjective test	Exam on the contents of the subject
Practical test:	Examen on the practical contents of the subject that will be solved using a laptop.

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	Description	**Qualification**
Practical test:	A3 A9 A13 B1 B2 C3 C8	Practical test using software	30
Guest lecture / keynote speech	A9 A13 B1 B2 C3 C8	Attendance and active participation in the classes and seminars	5
Supervised projects	A9 B2 B3 B4 B8 B9 C2 C7 C9	Assesment of the projects proposed by the teachers	25
ICT practicals	A9 A13 B1 B3 B4 B8 B9 C3 C8 C9	Submission of cases solved in the classes or autonomously by the student	10
Mixed objective/subjective test	A3 A9 A13 B1 B2 B3 B5 B9 C2 C9	Exam on the theoretical contents of the subject	30

Assessment comments

Assessment criteria
Second opportunity

The assessment criteria for the first and
the second opportunity are the same. The student has a chance to resit the mixed
objective/subjective test and the practical test. If the score in any of the
two tests in the first opportunity was higher than 4.0, the student does not
need to resit that test and its score can be kept for the second opportunity. However,
the student cannot resit the supervised projects, guest lectures and ICT
practicals because they are evaluated through continuous assessment.
Early call

If there were students who wanted to take
the early December call (Art. 19 "Standards for evaluation, review and
claim of qualifications for undergraduate and master's degree studies"),
those students will only have to take the mixed objective/subjective test (35%
of the grade), the practical test (40% of the grade) and the supervised project
(25% of the grade). The supervised project must be done individually.
As strict requirement to pass the course, both in the first and second opportunity of assessment, it will be necessary to obtain a minimum score of 3.5 points out of 10 in the mixed objective/subjective test and in the practical test. If this requirement is not met, the grade will be ?Fail? regardless of the average score.
'No Presentado' grade

The grade of "No presentado" (no
grade) will be given to those students who will not attend the final exam both
in the first, second opportunity of assessment as well as in the early call.
Students with recognition of part-time
dedication and academic exemption waiver

The students with recognition of part-time
dedication and academic exemption waiver must inform the instructor of the
course at the beginning of the course, to establish a plan and calendar of
activities. The assessment system will be the following one: mixed
objective/subjective test (35%), practical test (30%), supervised project (25%),
and the ICT Practicals (10%). The student must form a team with other students
to develop the supervised project.
Minimum grade

As strict requirement to pass the course,
both in the first and second opportunity of assessment, it will be necessary to
obtain a minimum score of 3.5 points out of 10 in the mixed
objective/subjective test and in the practical test. If this requirement is not
met, the grade will be ?Fail? regardless of the average score.
Students must attend at least to 80% of the classes. If this requirement is not met and the average score is 5.0 or higher, the grade will be 4.5 ?Fail?.
Additional information

Fraudulent behaviour in any of the parts
subject to assessment will result in the grade of "Fail (0)" in the
final assessment.

It is forbidden to access the examination
room with any device allowing for data transmission and/or warehousing when any
of the evaluations is taking place (mobile phones, smartwatches...).

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