



1 SUBJECT								
1.1 TOPIC (ÁREA OF KNOWLEDGE)	Information and communication technologies							
1.2 NAME	Advanced Information Systems							
2 LECTURER	Jordi Morales i Gras							
3 GENERAL DETAILS								
3.1 ТҮРЕ	Option	al						
3.2 ECTS CREDITS	6							
3.3 YEAR	Third							
3.4 SEMESTER	Second							
3.5 LANGUAGE	English							
4 GENERAL COMPETENCIES	CG5	Use information and communication te sources, to communicate, to store infor investigation, etc.						
	CG12	Develop autonomy in learning and task commitments.	s and responsibility to collective					
	CG16	Understand the need for lifelong learni	ng.					
5 SPECIFIC COMPETENCIES	CE3	Use information and communication te	chnology applied to management					
	CE22	Know and use the new marketing tools relationship marketing, direct and inter						
6 CONTENTS	 Digital Transformation: This section covers the theoretical definition of digital transformation and how technology plays a role in the digital economy of the 21st century. It also discusses digital and disruptive business models. Data-driven Companies: This section covers the concept of information inside corporations, the informational pyramid, business informational systems, information technologies in business, and informational and data-related roles in companies. Tools and Techniques for Digital Transformation: This section covers topics such as business analytics to business intelligence, big data, small data, and good data, artificial intelligence and machine learning in business, and related technologies. Marketing Intelligence: This section covers the use of data in digital marketing, metrics and key performance indicators, the business intelligence. 							
7. METHODOLOGY	 Lectures, in which general and specific skills are worked on from a theoretical point of view and using reference examples. Practical exercises, individual and in group, where general and specific skills are worked on from a practical point of view. 							
8 LEARNING OUTCOMES	 Know how to identify the areas of value contribution of information technologies and the digital transformation proposal. Being able to develop functional design proposals in the field of digitization to 							
	generate value in the company.							
9 EVALUATION		Criteria	Competencies Value (%)					

CRITERIA			CG	5, CG12	2, CG16,	CE3, CE22	30%			
	Group work deliveries									
	Individual mid-term written tests CG5, CG12, CG16, CE					CE3, CE22	30%			
	Individual written final test		CG5, CG12, CG16, CE3, CE22				15%			
	Individual deliveries based on practical work	-					15%			
	Positive attitude, attendance, and participat	ion	CG5, CG12, CG16, CE3, CE22				10%			
	TOTAL									
	General comments									
	• An attendance below 85% of the scheduled classes will imply a score of 0 points in that item.									
	 Your results in this subject will be evaluated continuously at the first call. If you do not pass (because you do not show up or fail), you may do so by doing a single exar in the second call. 									
	 In the event of obtaining less than 60% in any mid-term exam, this must be retaken together with the final exam. 									
	 The group work will be carried out in teams (between 3 and 5 members per team). 									
	Up to 30% of the final grade will be evaluated and will only have value for the first call.									
	The deliveries based on practical workshops will be carried out individually. Up to									
	the 15% of the final grade will be evaluated and will only have value for the first call.									
	• To pass the course, you must obtain an overall grade of 50%, and no less than 35%									
	in each exam, individual and group deliveries.									
	Comments on resists									
	To pass the subject on second call, it is									
	minimum score of 50%. In extraordinary call, no other evaluation criteria will be									
	required.									
	Comments on students from previous years									
	To pass the subject on third and subsequent calls, it is necessary to pass the test. In									
	extraordinary call, no team work or will be required.									
10 BIBLIOGRAPHY	 The Information: a History, a Theory, a Flood. James Gleick, 2011. Digital Transformation: Survive and Thrive in an Era of Mass Extinction. Thomas Siebel, 2019. 									
	 Big Data: A Revolution That Transforms How we Work, Live, and Think. Viktor Mayer-Schönberger, 2012. 									
	 <i>Reinventing Capitalism in the Age of Big Data.</i> Viktor Mayer-Schönberger, 2018. 									
	- Additional readings will be provided during the course.									
11 EVALUATION CRITERIA	Criteria	Jan.	Feb.	Mar.	Apr.	May	Total			
SCHEDULE	Group work deliveries		10%	10%		10%	30%			
Schieden	Individual mid-term written tests		15%		15%		30%			
	Individual written final test					15% to 45%	15% to 45%			
	Individual deliveries based on practical workshops			5%	5%	5%	15%			
	Positive attitude, attendance, and participation. 10%									
	Total									