

Program	09AQ-Master in Telecommunication Engineering
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Course number and name	
Number	93000798
Name	Applications and Services Aplicaciones y servicios
Semester	Y1-1S

Credits and contact hours	
ECTS Credits	6
Contact hours	40

Coordinator's name	JUAN C. DUEÑAS
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Specific course information		
Description of course content		
The goal of the course is to learn basic techniques and technologies for conception, analysis, design and development of application and services.		
List of topics to be covered		
Innovations in applications and services, business models, development processes, quality characteristics, architectural models, Services Oriented Architectures, information systems, operation and management of services and applications.		
Prerequisites or co-requisites		

Course category in the program		
<input checked="" type="checkbox"/> R (required)	<input type="checkbox"/> E (elective)	<input type="checkbox"/> SE (selective elective)

Specific goals for the course	
Specific outcomes of instruction	
RA1 – To know standards and protocols used in development. RA2 – To know the infrastructures and tools for services provisioning. RA3 – To know the processes for development currently used in industry. RA4 – To know engineering methods used for development. RA5 – To understand the need for specific techniques if large data sets are used. RA6 – To understand the basic quality, identity and privacy management requirements for applications and services. RA7 – To understand the different business models and the technologies used for each. RA8 – To get experience in analysis of business problems and solutions by applications	

and services.

RA9 – To write down technical reports suitable for engineering team work

RA10 – To present a technical work using the proper resources.

Student outcomes addressed by the course

CT3, CT4, CT5, CE6, CE7.

Bibliography and supplemental materials

Platform ecosystems: aligning architecture, governance and strategy. A. Tiwana, Newnes, 2013

Douglas K. Barry. Web Services, Service-Oriented Architectures, and Cloud Computing, 2nd Edition. Morgan Kaufmann. 2013

Teaching methodology

X_ lectures	__ problem solving sessions	X_ collaborative actions	__ laboratory sessions
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Other: