

Program	09TT- Engineering in Telecommunication Technologies and Services
----------------	---

Course number and name	
Number	95000038
Name	Network Computing Computación en Red
Semester	3Y-S2

Credits and contact hours	
ECTS Credits	4.5
Contact hours	45

Coordinator's name	Juan Quemada Vives
---------------------------	--------------------

Specific course information		
Description of course content		
Client and server Internet application programming using HTML5, JavaScript and node.js		
List of topics to be covered		
Client side programming in HTML5, CSS and JavaScript Server side programming in JavaScript, node.js and express.js npm packaging and program version control with GIT and GITHUB		
Prerequisites or co-requisites		
Programming, Computer Networks and Foundations of Telematic Systems		
Course category in the program		
<input checked="" type="checkbox"/> X R (required)	<input type="checkbox"/> E (elective)	<input type="checkbox"/> SE (selective elective)

Specific goals for the course
Specific outcomes of instruction
RA88 - Capacity of specifying, programing, validating and optimizing communication protocols and interfaces in layered architectures, as well as end to end or in the core of the network.
RA89 - Capacity of programming, simulating and validating telematic applications and services distributed over the Internet.
RA90 – Capacity of integrating systems to capture, represent, process, store, manage and visualize multimedia information for creating Telecom Services and Telematic Systems.

Student outcomes addressed by the course

CE-TL1, CE-TL4, CE-TL6 , CE-TL7, CG10

Bibliography and supplemental materials

Web resources including classroom slides, recorded sessions in MOOC format and many Web resources

Teaching methodology

X_ lectures	X_ problem solving sessions	X collaborative actions	X_ laboratory sessions
Other:	Process based learning methodology, where students must specify and create a small web Portal including client and server side applications.		