

International Master on Communication Networks Engineering, AA. AA. 2012-14
MAster on Photonic NETworks Engineering, AA. AA. 2012-14

COURSES OFFERED AT SSSUP

TEACHING MODULES	ECTS
FIRST SEMESTER	30
Communication Theory and Digital Transmission	4
Communication Networks	4
Stochastic Processes and Queuing Theory	6
Electromagnetic fields and propagation I	2
Real-Time Systems	5
Network Management Systems	3
Networked Virtual Environments	3
Lab. of Virtual Environments	3
SECOND SEMESTER	30
Fundamentals of Applied Optics	4
Electromagnetic Fields and Propagation II	2
Fundamentals of Optical Communications	3
Wireless Communication Networks	2
Design of Access, Metro and Core Networks	4
Network Optimization	3
Sensor Networks	3
Lab of Network Software	3
Lab of Traffic Engineering	3
Photonic Technologies	3
THIRD SEMESTER – General Courses	15
Photonic Integrated Circuits	3
Design of Optical Communication Systems	3
Optical Amplification and Fibre-Optic sensing	3
Performance Evaluation of Communication Systems	6
THIRD SEMESTER / Free-choice exams	(IMCNE: at least 15)
Advanced Topics in Networks*	2
Lab of Photonic Switching – First Part	4
Lab of Photonic Switching – Second Part	2
Lab of Photonic Systems – First Part	4
Lab of Photonic Systems – Second Part	2
Lab of Photonic Amplification and Components – First Part	4
Lab of Photonic Amplification and Components – Second Part	2

* Course offered during the fourth semester, to be taken when a thesis in optical networking is pursued