

International Master on Communication Networks Engineering, AA. AA. 2011-13
MAster on Photonic NETworks Engineering, AA. AA. 2011-13

COURSES	Univ. credits
FIRST SEMESTER	29
Object Oriented Software Design	5
Communication Theory and Digital Transmission	4
Communication Networks	4
Stochastic Processes and Queuing Theory	6
Electromagnetic fields and propagation I part	2
Real-Time Systems	5
Network Management Systems	3
SECOND SEMESTER	31
Fundamentals of Applied Optics	4
Electromagnetic Fields and Propagation II part	2
Fundamentals of Optical Communications	3
Wireless Communication Networks	2
Design of Access, Metro and Core Networks	4
Network Optimization	3
Sensor Networks	3
Advanced Topics in Networks	1
Lab of Network Software	3
Lab of Traffic Engineering	3
Photonic Technologies	3
THIRD SEMESTER – General Courses	21
Photonic Integrated Circuits	3
Design of Optical Communication Systems	3
Optical Amplification and Fibre-Optic sensing	3
Performance Evaluation of Communication Systems	6
Networked Virtual Environments	3
Lab. of Virtual Environments	3
THIRD SEMESTER / Free-choice exams	at least 9
Lab of Photonic Switching – First Part	4
Lab of Photonic Switching – Second Part	2
Lab of Photonic Systems – First Part	3
Lab of Photonic Systems – Second Part	3
Lab of Photonic Amplification and Components – First Part	4
Lab of Photonic Amplification and Components – Second Part	2