



COURSE: PHOTONIC SUBSYSTEMS		
MASTER: ELECTRONIC SYSTEMS ENGINEERING AND APPLICATIONS	YEAR: 2018-19	TERM: 1st

WEEKLY PLANNING								
WEEK	SESSION	DESCRIPTION	GROUPS (mark X)		Special room for session (computer classroom, audio-visual classroom...)	WEEKLY PROGRAMMING FOR STUDENT		
			LECTURES	SEMINARS/ LAB ¹		DESCRIPTION	CLASS HOURS	HOMEWORK HOURS (Max. 7h week)
1	1	(12 noviembre) Introduction: Optical fiber technologies, advantages and disadvantages	X			Previous reading. Answering questions about background.	1,5	
1	2	(14 noviembre) Introduction: Optical link (power budget and time balance)	x			Exercises	1,5	4
2	3	(19 noviembre) Introduction: Optical link exercises and Photonics subsystems evolution	x			Concepts analysis	1,5	5
2	4	(21 noviembre) Simulation and measuring techniques in photonics subsystems		x	computer	MATLAB Report	1,5	
3	5	(26 noviembre) Introduction: Photonics subsystems evolution	x			Review reading and exercise portfolio	1,5	
3	6	(28 noviembre) Optical amplification subsystems: Technologies	x			Concepts analysis. Manual reading	1,5	3
4	7	(3 diciembre) Multiplexing subsystems: Technologies	x			Review reading and exercise portfolio	1,5	5

4	8	(5 diciembre) Multiplexing subsystems: Application to WDM networks	x			Concepts analysis	1,5	2
5	9	(10 diciembre 16:00 a 17:30) Simulation and measuring techniques in photonics subsystems		x	LAB	Report	1,5	5
5	10	(12 diciembre 16:00 a 17:30) Simulation and measuring techniques in photonics subsystems		x	LAB	Report 11-12 dic Seminario VPI	1,5	
6	11	(17 diciembre) Simulation and measuring techniques in photonics subsystems		x	VPI		1,5	5
6	12	(19 diciembre) Optical switching technologies (OADM, OXC)	x			Review reading and exercise portfolio	1,5	
7	13	(9 enero) Presentaciones I	x			Concepts analysis	1,5	5
7	14	(14 enero-recupera 7 enero) Presentaciones II Optical switching: application and Optical amplification: long haul. Exercises review if necessary Entrega de trabajos y recuperaciones presentaciones	x			Review reading and exercise portfolio	1,5	
8	15							

Subtotal 1

21

34

Total 1 (Hours of class plus student homework hours between weeks 1-7)

55

1-7		Tutorials, handing in, etc					10	
8		Assessment				Hands in: portfolio with exercises and reports Final exam:22 january	3	7

Subtotal 2

3

17

Total 2 (Hours of class plus student homework hours at week 8)

20

TOTAL (Total 1 + Total 2)							75
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