



TRANSCRIPT OF RECORD

MIGUEL HERNÁNDEZ UNIVERSITY	
Faculty / Higher Polytechnic School of Elche	
Coordinator's / Secretary's name: GARCÍA BARBERO, MILAGROS	
Phone: +34 965 222 146 Fax: +34 966 678 705 E-mail box:internacional@umh.es	
CERTIFIES THAT:	
NAME OF STUDENT: MARCOS OLTRA	First name: PABLO
NATIONAL ID: 48559277	
Date and place of birth: 13 March of 1987, ORIHUELA (ALICANTE) Spain	
Matriculation date: 2005	Matriculation number: 842
Has completed and passed the following subjects, which correspond to the course	
TELECOMMUNICATIONS ENGINEERING (P99) Higher Polytechnic School of Elche Miguel Hernández University	

Course Unit Code (1)	Title of the course unit	Spanish Credits (2)	Spanish Grade (3)	ECTS Credits (4)	ECTS Grade (5)
5690	ADVANCED PHYSICS	7,5	6,5		
5894	ADVANCED RADIOCOMMUNICATION TECHNOLOGY	6	7,7		
5688	ALGEBRA	6	7		
5860	ARCHITECTURE OF NETWORKS, SYSTEMS AND SERVICES	10,5	5,2		
5880	BUSINESS ECONOMICS AND ORGANISATION	10,5	9		
5689	CALCULUS	6	6,1		
5869	CIRCUIT AND ELECTRONIC SYSTEM DESIGN	6	10		
5681	CIRCUIT THEORY I	4,5	6,6		
5691	CIRCUIT THEORY II	7,5	7		
5873	COMMUNICATION NETWORKS, SYSTEMS AND SERVICES	15	7,1		
5863	COMMUNICATION SIGNALS AND SYSTEMS	12	6,7		
5867	COMPUTER ARCHITECTURE	10,5	6		
5866	DATA TRANSMISSION	7,5	5,8		
6898	DESIGN OF WEB INFORMATION SYSTEMS	6	9,5		
5865	DIGITAL ELECTRONIC SYSTEMS	7,5	9		
5874	DIGITAL SIGNAL PROCESSING	10,5	7,7		



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Course Unit Code (1)	Title of the course unit	Spanish Credits (2)	Spanish Grade (3)	ECTS Credits (4)	ECTS Grade (5)
5877	ELECTROMAGNETIC FIELDS	9	7,5		
5687	ELECTRONIC AND PHOTONIC TECHNOLOGY AND COMPONENTS	10,5	6,3		
5861	ELECTRONIC CIRCUITS	10,5	6,3		
5870	ELECTRONIC INSTRUMENTATION	6	6		
5879	ELECTRONICS LABORATORY	13,5	6,1		
5682	FUNDAMENTALS OF COMPUTERS	4,5	7,4		
6365	FUNDAMENTALS OF OPERATING SYSTEMS	6	7,9		
5686	FUNDAMENTALS OF PROGRAMMING	7,5	10		
5875	HARDWARE TRANSMISSION	9	6,9		
5684	MATHEMATICS I	6	7		
5685	MATHEMATICS II	6	8,2		
5882	MATHEMATICS III	6	9		
5902	MOBILE COMMUNICATIONS	6	7,5		
5884	OPERATIONAL RESEARCH	6	5		
5868	OPTICAL COMMUNICATIONS	10,5	8,3		
6367	OPTOELECTRONICS LABORATORY	6	8		
5878	PHOTONICS	9	7		
5683	PHYSICAL FUNDAMENTALS OF ENGINEERING	7,5	7		
6892	POWER ELECTRONICS	6	7,3		
5876	PROJECTS	7,5	9,7		
5871	RADIOCOMMUNICATION SYSTEMS	6	6,1		
7865	RADIONAVIGATION	6	7,2		
5883	STATISTICS	6	9,8		
7864	TELEVISION SYSTEMS	6	7,2		
5862	TRANSMISSION MEANS AND LINES	6	5,1		
5864	TRANSMISSION SYSTEMS	6	6		
5872	TRANSMITTERS AND RECEIVERS	6	8,7		
EXTRA-CURRICULAR ACTIVITIES					
	ANEXO A-2323/09. PRACTICAS INTERNAS	9			
	ANEXO A-2796/09. PRACTICAS INTERNAS	9			
	ANEXO A-2919/08. PRACTICAS INTERNAS	3			
	AUTOMECA 2007	2			
	CERTIFICADO NIVEL INTERMEDIO E.O.I	6			
	DELEGADO DE GRUPO	2			
	FISICA	2			
		3			



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Course Unit Code (1)	Title of the course unit	Spanish Credits (2)	Spanish Grade (3)	ECTS Credits (4)	ECTS Grade (5)
	GRAU ELEMENTAL				
	MATEMATICAS	2			
	XII JORNADAS DE EMPLEO DE LA UMH	1,5			
	XXIV CONGRESO NAC. ESTUDIANTES MEDICINA	3,5			

Diploma / degree awarded:

Date: wednesday 9 February of 201

Stamp of institution:

Signature of registrar/dean/ administration officer:
GARCÍA BARBERO, MILAGROS
VICERRECTORADO DE RELACIONES INTERNACIONALES

UNIVERSITAS
Miguel Hernández
VICERRECTORADO DE
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(1) Course unit code:

Refer to as published on the UMH - Homepage (<http://www.umh.es>)

(2) Spanish credits:

10 lecture hours = 1 cred

(3) Spanish grading scale:

From 0 to 10: 0 = Fail; 5 = Pass; 10 = Excellent

(4) ECTS credits:

1 full accademic year = 60 credits
 1 Semestre = 30 credits
 1 term/trimester = 20 credits

(5) ECTS grading scale:

ECTS Grade	% of successful students normally achieving the grade	Definition
A	10	EXCELLENT-outstanding performance with only minor errors
B	25	
C	30	VERY GOOD-above the average standard but with some errors
D	25	GOOD- Generally sound work with a number of notable errors
E	10	
FX	-	SATISFACTORY-Fair but with significant shortcomings
F	-	SUFFICIENT-Performance meets the minimum criteria
		FAIL -Some more work required before the credit can be awar