

## Syllabus MSc Electronic Systems for Embedded and Communicating Application (ESECA)

SEMESTER	MODULES	Number of ECTS credits	Format of the course (in hours of class lecture L, tutored work TW, personal work PW, visits V)
<b>First year M1 Semester 1</b> (Sept – Dec)  <b>30 ECTS credits</b>	Social Science & Culture	4	30L + 75 TW
	Mathematics	6	15 L + 30 TW
	Programing	6	4 L + 54 TW
	Analog Electronics	8	20 L + 100 TW
	Digital Electronics	6	10 L + 70 PW
<b>First year M1 Semester 2</b> (Jan – June)  <b>30 ECTS credits</b>	Social Science & Culture	6	20 L + 50 TW + 30 PW
	Digital Electronics	6	10 L + 45 TW
	Optics & Telecoms	5	20 L + 45 PW
	Radio-Frequencies	7	25L + 50 TW
	Signal & Image	6	30 TW + 30 PW
<b>Second year M2 Semester 3</b> (Sept – Jan)  <b>30 ECTS credits</b>	Social Science & Culture	9	20 L + 35 TW + 95 PW
	Embedded Systems	11	50 L + 125 TW
	Power Management	4	20 L + 25 TW
	Radar & Remote Sensing	3	20 L + 20 TW
	Telecoms	3	30L + 10 TW

<b>Second year M2 Semester 4</b> (Feb – Sept)  30 ECTS credits	5 to 6 month internship in enterprise or research lab, from beginning of January to end of June Oral defense second week of September	30	
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