

LESSON PLAN OPTOELECTRONIC DEVICES, PROF. MAURO MOSCA (A.A. 2023-2024)

September 2023						
Lunedì	Martedì	Mercoledì	Giovedì	Venerdì	Sabato	Domenica
28	29	30	31	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	1
			Ore 8-9 (Aula Sav.) - Introduction to the course (1 h)	Ore 8-10 (Aula Sav.) - Nature of light (2 h)		

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October 2023						
Lunedì	Martedì	Mercoledì	Giovedì	Venerdì	Sabato	Domenica
25	26	27	28	29	30	1
2	3	4	5	6	7	8
Ore 15-18 (Aula Sav.) - Nature of light (1 h) - Photodetectors (2 h)						
9	10	11	12	13	14	15
Ore 15-17 (Aula Sav.) - Photodetectors (2 h)			Ore 8-10 (Aula Sav.) - LEDs (2 h)	Ore 8-10 (Aula Sav.) - LEDs (2 h)		
16	17	18	19	20	21	22
Ore 15-17 (PhotoLab) - Lab sessions (2 h)			Ore 8-10 (Aula Sav.) - Lasers (2 h)	Ore 8-10 (Aula Sav.) - Lasers (2 h)		
23	24	25	26	27	28	29
Ore 15-17 (Aula Sav.) - Heterostructures (2 h)			Ore 8-10 (Aula Sav.) - Materials (2 h)	Ore 8-10 (Aula Sav.) - Materials (2 h)		
30	31	1	2	3	4	5
Ore 15-17 (Aula Sav.) - UV detectors (2 h)						

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November 2023						
Lunedì	Martedì	Mercoledì	Giovedì	Venerdì	Sabato	Domenica
30	31	1	2	3	4	5
			Ore 8-10 (Aula Sav.) - UV detectors (2 h)	Ore 8-10 (Aula Sav.) - IR detectors (2 h)		
6	7	8	9	10	11	12
13	14	15	16	17	18	19
			Ore 8-9 (Aula Sav.) - IR detectors (1 h)	Ore 8-10 (Aula Sav.) - White LEDs (2 h)		
20	21	22	23	24	25	26
Ore 15-17 (PhotoLab) - Lab sessions (2 h)			Ore 8-10 (Aula Sav.) - White LEDs (2 h)	Ore 8-10 (Aula Sav.) - White LEDs (2 h)		
27	28	29	30	1	2	3

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December 2023						
Lunedì	Martedì	Mercoledì	Giovedì	Venerdì	Sabato	Domenica
27	28	29	30	1	2	3
4	5	6	7	8	9	10
			Ore 8-10 (Aula Sav.) - OLEDs (2 h)	Ore 8-10 (Aula Sav.) - OLEDs (2 h)		
11	12	13	14	15	16	17
Ore 15-18 (Aula Sav.) - OLEDs (1 h) - VCSELs (2h)			Ore 8-10 (Aula Sav.) - VCSELs (2h)	Ore 8-9 (Aula Sav.) - QCL (1h)		
18	19	20	21	22	23	24
Ore 8-10 (PhotoLab) - Lab sessions (2 h)			Ore 8-10 (Aula Sav.) - Possible remedial lessons	Ore 8-10 (Aula Sav.) - Possible remedial lessons		
25	26	27	28	29	30	31

TOPICS	N. HOURS
INTRODUCTION TO THE COURSE	1
NATURE OF LIGHT AND ITS PROPERTIES	3
PHOTODETECTORS (PHYSICAL AND TECNOLOGIES)	3
LEDS (PHYSICAL AND TECNOLOGIES)	4
LASERS (PHYSICAL AND TECNOLOGIES)	4
EPITAXIAL LAYERS AND HETEROSTRUCTURES	2
MATERIALS FOR OPTOELECTRONIC DEVICES	4
UV AND SOLAR-BLIND DETECTORS	4
IR AND QWIP DETECTORS	3
WHITE LEDS	6
OLEDs	5
VCSELS	4
QUANTUM CASCADE LASERS	1
NUMBER HOURS OF LESSONS:	44
LABORATORY SESSIONS	6
TOTAL NUMBER OF HOURS:	50