

TIMETABLE ACADEMIC YEAR 2020-2021

MASTER IN PHOTONICS MASTER EUROPHOTONICS

Important note:

This master program is taught on a face to face basis. Nevertheless, due to the uncertainties and restrictions generated by the COVID-19 pandemics, lectures will be held in a hybrid configuration: face to face in the classroom (for those students who can attend), and at the same time broadcasted (live in streaming). Labs, seminars and exams are kept, in principle, face to face.

Exceptionally, academic course 2020-2021 will be entirely held at Universitat Politècnica de Catalunya (Campus Nord), in Barcelona.

Note that this format can be subject to modification at the request of the health authorities. We are prepared to switch to on-line teaching, if needed.

Version date: August 4th 2020



UNIVERSITAT POLITÈCNICA
DE CATALUNYA

UAB
Universitat Autònoma
de Barcelona



UNIVERSITAT DE
BARCELONA

ICFO
Institut
de Ciències
Fotòniques

Calendar. Academic year 2020-21.

SEPTEMBER 2020						
Mo	Tu	We	Th	Fr	Sa	Su
	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				

OCTOBER 2020						
Mo	Tu	We	Th	Fr	Sa	Su
			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	31	

NOVEMBER 2020						
Mo	Tu	We	Th	Fr	Sa	Su
						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						

DECEMBER 2020						
Mo	Tu	We	Th	Fr	Sa	Su
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7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

JANUARY 2021						
Mo	Tu	We	Th	Fr	Sa	Su
				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	31

FEBRUARY 2021						
Mo	Tu	We	Th	Fr	Sa	Su
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

MARCH 2021						
Mo	Tu	We	Th	Fr	Sa	Su
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8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

APRIL 2021						
Mo	Tu	We	Th	Fr	Sa	Su
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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		

MAY 2021						
Mo	Tu	We	Th	Fr	Sa	Su
					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
30						

JUNE 2021						
Mo	Tu	We	Th	Fr	Sa	Su
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7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

JULY 2021						
Mo	Tu	We	Th	Fr	Sa	Su
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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	31	

AUGUST 2021						
Mo	Tu	We	Th	Fr	Sa	Su
						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	31					

SEPTEMBER 2021						
Mo	Tu	We	Th	Fr	Sa	Su
		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			

Block	Teaching Period
#1A	14 Sep - 9 Oct
#1B	13 Oct - 4 Dec
#2	9 Dec - 19 Feb
#3	22 Feb - 23 Apr
MSc Th.	Apr 26 - ...

Lab days
Exams
Activity days
Without activity

Important dates and information

REGISTRATION:

Master in Photonics/Europhotonics: 4-10th of September

COURSE STARTS:

Master in Photonics: 14th of September / Europhotonics: 13th of October

SPRING SCHOOL @ Marseille, France (TBD).

Photonics Engineering, Nanophotonics and Biophotonics

(Master in Photonics students are also invited)

22 to 26 March 2021

TEACHING BLOCKS

Lectures are grouped into 3 teaching blocks + fourth block devoted for the Master Thesis

Block 1A: From 14 Sep to 9 Oct (**only MSc. in Photonics**)

Block 1B: From 13 Oct to 4 Dec

Block 2: From 9 Dec to 22 Dec and from 11 Jan to 19 Feb

Block 3: From 22 Feb to 23 Apr

Block 4: From 26 Apr until September

Christmas holidays: From 23 Dec 2020 to 10 Jan 2021

Holy Week holidays: From 27 Mar to 5 Apr 2021

Block 1A: Campus Nord (UPC)

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
10:00-11:00			SEMINARS (A3 103)		
11:00-12:00					
12:00-13:00					
13:00-14:00					
14:00-15:00		INTRODUCTION TO PHOTONICS (A4 205)	INTRODUCTION TO PHOTONICS (A4 205)	INTRODUCTION TO PHOTONICS (A4 205)	
15:00-16:00					
16:00-17:00		BEAM PROPAGATION AND FOURIER OPTICS (A4 205)	BEAM PROPAGATION AND FOURIER OPTICS (A4 205)	BEAM PROPAGATION AND FOURIER OPTICS (A4 205)	
17:00-18:00					

Block 1A: Labs

	MONDAY 5 OCTOBER				FRIDAY 9 OCTOBER
	LABORATORY 1 session 1 (UPC / UAB / UB) 15.00-19.00				LABORATORY 1 session 2 (UPC / UAB / UB) 15.00-19.00

Block 1B: Campus Nord (UPC)

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
10:00-11:00			SEMINARS (A3 103)		
11:00-12:00					
12:00-13:00					
13:00-14:00					
14:00-15:00	INTRODUCTION TO PHOTONICS (A4 205)	QUANTUM OPTICS (A4 205) / ACTIVE AND SPECTRAL IMAGING (A4 206)	INTRODUCTION TO PHOTONICS (A4 205)		QUANTUM OPTICS (A4 205) / ACTIVE AND SPECTRAL IMAGING (A4 206)
15:00-16:00					
16:00-17:00	BEAM PROPAGATION AND FOURIER OPTICS (A4 205)	MEASURING WITH LIGHT (A4 205)	BEAM PROPAGATION AND FOURIER OPTICS (A4 205)	MEASURING WITH LIGHT (A4 205)	PHOTONICS MATERIALS AND METAMATERIALS (A4 205)
17:00-18:00					
18:00-19:00		MACHINE LEARNING ON CLASSICAL AND QUANTUM DATA (A4 205)	PHOTONICS MATERIALS AND METAMATERIALS (A4 205)	MACHINE LEARNING ON CLASSICAL AND QUANTUM DATA (A4 205)	BEAM PROPAGATION AND FOURIER OPTICS (A4 205)
19:00-20:00					

Notes:

Courses that overlap in time cannot be chosen simultaneously (Quantum Optics and Active and Spectral Imaging)

Blocks 1A and 1B: Exams, Labs and Activities.

	MONDAY 23 NOVEMBER	TUESDAY 24 NOVEMBER	WEDNESDAY 25 NOVEMBER	THURSDAY 26 NOVEMBER	FRIDAY 27 NOVEMBER
14:00-17:00	INTRODUCTION TO PHOTONICS (A4 205)	QUANTUM OPTICS (A4 205)	PHOTONICS MATERIALS AND METAMATERIALS (A4 205)	MACHINE LEARNING ON CLASSICAL & QUANTUM DATA (A4 205)	BEAM PROPAGATION AND FOURIER OPTICS (A4 205)
17:00-20:00		ACTIVE AND SPECTRAL IMAGING (A4 206)		MEASURING WITH LIGHT (A4 205)	

	MONDAY 30 NOVEMBER	TUESDAY 1 DECEMBER	WEDNESDAY 2 DECEMBER	THURSDAY 3 DECEMBER	FRIDAY 4 DECEMBER
	LABORATORY 2 session 1 (UPC / UAB / UB) 15.00-19.00	ACTIVITIES DAY 1	ACTIVITIES DAY 2	ACTIVITIES DAY 3	LABORATORY 2 session 2 (UPC / UAB / UB) 15.00-19.00

Notes:

During activity days, several visits to research labs will be scheduled (including UPC, UAB, UB and ICFO)

Block 2: Campus Nord (UPC)

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
10:00-11:00			SEMINARS (A3 103)		
11:00-12:00					
12:00-13:00					
13:00-14:00					
14:00-15:00	VISUAL BIOPHOTONICS (A4 205) / ADVANCED QUANTUM OPTICS ... (A4 206)	NONLINEAR OPTICS (A4 205)	VISUAL BIOPHOTONICS (A4 205) / ADVANCED QUANTUM OPTICS ... (A4 206)	NONLINEAR OPTICS (A4 205)	INTEGRATED PHOTONICS (A4 205) / FROM TRAPPING TO COOLING ... (A4 206)
15:00-16:00					
16:00-17:00	BUSINESS AND PATENTS IN PHOTONICS (A4 205)	LASER SYSTEMS AND APPLICATIONS (A4 205)	IMAGE PROCESSING IN BIOPHOTONICS (A4 205)	BUSINESS AND PATENTS IN PHOTONICS (A4 205)	LASER SYSTEMS AND APPLICATIONS (A4 205)
17:00-18:00					
18:00-19:00	FIBERS AND TELECOM (A4 205)	INTEGRATED PHOTONICS (A4 205) / FROM TRAPPING TO COOLING ... (A4 206)		FIBERS AND TELECOM (A4 205)	
19:00-20:00					

Notes:
 Courses that overlap in time cannot be chosen simultaneously (Visual Biophotonics and Advanced Quantum Optics; Integrated Photonics and From Trapping to Cooling ...)

Block 2: Exams, Labs and Activities.

	MONDAY 8 FEBRUARY	TUESDAY 9 FEBRUARY	WEDNESDAY 10 FEBRUARY	THURSDAY 11 FEBRUARY	FRIDAY 12 FEBRUARY
14:00–17:00	VISUAL BIOPHOTONICS (A4 205) ADV. QUANTUM OPTICS WITH APPLICATIONS (A4 206)	LASER SYSTEMS & APPLICATIONS (A4 205)	IMAGE PROCESSING IN BIOPHOTONICS (A4 205)	NONLINEAR OPTICS (A4 205)	FROM TRAPPING TO COOLING... (A4 206)
17:00–20:00		INTEGRATED PHOTONICS (A4 205)		FIBERS & TELECOM (A4 205)	

	MONDAY 15 FEBRUARY	TUESDAY 16 FEBRUARY	WEDNESDAY 17 FEBRUARY	THURSDAY 18 FEBRUARY	FRIDAY 19 FEBRUARY
	LABORATORY 3 session 1 (UPC / UAB / UB) 15:00-19:00	ACTIVITIES DAY 4	ACTIVITIES DAY 5	ACTIVITIES DAY 6	LABORATORY 3 session 2 (UPC / UAB / UB) 15:00-20:00

Notes:

The specific timetable for activity days will be coordinated by the corresponding professors

Block 3: Campus Nord (UPC)

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
10:00-11:00			SEMINARS (A3 103)		
11:00-12:00					
12:00-13:00					
13:00-14:00					
14:00-15:00	QUANTUM INFORMATION THEORY (A4 205) / MANAGING LIGHT WITH DEVICES (A4 206)	ULTRAFASST AND ULTRAINTESE LIGHT (A4 205)	QUANTUM INFORMATION THEORY (A4 205) / MANAGING LIGHT WITH DEVICES (A4 206)	ULTRAFASST AND ULTRAINTESE LIGHT (A4 205)	EXPERIMENTAL OPTICAL TECHNIQUES IN BIOLOGY (ICFO)
15:00-16:00					
16:00-17:00	BUSINESS AND PATENTS IN PHOTONICS (A4 205)	QUANTUM SIMULATORS (A4 205) / OPTICAL SYSTEM DESIGN (A4 206)	BUSINESS AND PATENTS IN PHOTONICS (A4 205)	QUANTUM SIMULATORS (A4 205) / OPTICAL SYSTEM DESIGN (A4 206)	
17:00-18:00					
18:00-19:00	NANOPHOTONICS (A4 205)	OPTOELECTRONICS & PHOTOVOLTAIC TECHNOLOGY (A4 205)	NANOPHOTONICS (A4 205)	OPTOELECTRONICS & PHOTOVOLTAIC TECHNOLOGY (A4 205)	
19:00-20:00					

Notes:

Courses that overlap in cannot be chosen simultaneously (Quantum Information theory and Managing Light with Devices; Quantum Simulators and Optical System Design).

Block 3: Exams, Labs and Activities.

	MONDAY 12 APRIL	TUESDAY 13 APRIL	WEDNESDAY 14 APRIL	THURSDAY 15 APRIL	FRIDAY 16 APRIL
14:00-17:00	BUSINESS & PATENTS IN PHOTONICS (A4 205)	ULTRAFAST & ULTRAINTENSE LASER LIGHT (A4 205)	QUANTUM SIMULATORS (A4 205) OPTICAL SYSTEM DESIGN (A4 206)	QUAUNTUM INF. THEORY (A4 205) MANAGING LIGHT WITH DEVICES (A4 206)	EXPERIMENTAL OPTICAL TECHNIQUES IN BIOLOGY
17:00-20:00		OPTOELECTRONICS & PHOTOVOLTAIC TECHNOLOGY (A4 205)			
	MONDAY 19 APRIL	TUESDAY 20 APRIL	WEDNESDAY 21 APRIL	THURSDAY 22 APRIL	FRIDAY 23 APRIL
	LABORATORY 4 session 1 (UPC / UAB / UB) 15:00-19:00	NANOPHOTONICS <i>14:00-17:00</i>	ACTIVITIES DAY 7	ACTIVITIES DAY 8	LABORATORY 4 session 2 (UPC / UAB / UB) 15:00-19:00

Notes:

The specific timetable for activity days will be coordinated by the corresponding professors.

Block 4: Master Thesis (26 Apr to 10 Sep)

BLOCK 4 is devoted to the Master Thesis work
Final oral defense sessions will be organized in **July and September**

Notes

SEMINARS:

A **3 hours/week slot** is reserved for *seminars*. These seminars will be announced few weeks in advance and there will be held in Campus Nord, when possible. They are part of the Master program and the assistance is compulsory.

EXAMS AND EVALUATION PRECEDURE:

Professors of each course decide the assessment procedure, as pointed out in the Course Contents. Exams are scheduled at the end of each teaching block. Exceptionally, other examination activities might be performed outside the exams week schedule.

OTHER POSSIBLE CIRCUMSTANCES

Under unexpected circumstances, lectures may be cancelled. In this case, reschedule will be carried out provided that both students and professors agree.