



UNIVERSITAT POLITÈCNICA
DE CATALUNYA

UAB
Universitat Autònoma
de Barcelona



UNIVERSITAT DE
BARCELONA

ICFO
Institut
de Ciències
Fotòniques

MASTER IN PHOTONICS
and
MASTER EUROPHOTONICS-POESII

TIMETABLE for ACADEMIC YEAR 2018-19

STARTING DATE: MSc. in Photonics: **12/09/2019** (registration before **September 7th**)
MSc. Europhotonics: **15/10/2019** (registration before **October 5th**)

TEACHING BLOCKS

Lectures (common for both Masters) are grouped into **3 teaching blocks + fourth block devoted for the Master Thesis**

Block 1A: 12/09/2019 - 11/10/2019 (only for the MSc. in Photonics)

Block 1B: 15/10/2019 – 05/12/2019 (for both Masters)

- **Compulsory courses (5 ECTS each)** 12/09/2019 – 5/12/2019: 10 teaching weeks + exams + labs & activities week.
- **Elective courses (3 ECTS each)** 15/10/2019 – 5/12/2019: 6 teaching weeks + exams + labs & activities week.

Block 2: 10/12/2018- 21/12/2018 and 07/01/2019 - 15/02/2019 (for both Masters).

- **Elective courses (3 ECTS each):** 6 teaching weeks + exams + labs & activities week

Christmas holidays: 22/12/2018 - 06/01/2019

Block 3: 18/02/2019 – 12/04/2019 (for both Masters).

- **Elective courses (3 ECTS each):** 6 teaching weeks + exams + labs & activities week

Easter holidays: 13/04/2019 – 22/04/2019

Block 4: 23/04/2019 – 7/09/2019 (for both Masters).

- **Master Thesis (16 ECTS)**

Summer holidays may be taken in August (if the Msc thesis tasks are advanced enough).

GENERAL VIEW

MSc in PHOTONICS & EUROPHOTONICS (2018/2019)

SEPTEMBER 2018						
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 2018						
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 2018						
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 2018						
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						

JANUARY 2019						
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 2019						
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 2019						
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

APRIL 2019						
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					

MAY 2019						
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		

JUNE 2019						
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

JULY 2019						
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				

AUGUST 2019						
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 2019						
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 #1A: Sep 12 - Oct 11 (21 days).
Block #1B: Oct 15 - Nov 23 (28 days). Exams: Nov 26 - Nov 30: Lab + Act: Dec 3 - Dec 5
Block #2: Dec 10 - Dec 21 & Jan 7 - Feb 1 (30 days). Exams: Feb 4 - Feb 8. Labs + Act: Feb 11 - Feb 15
Block #3: Feb 18 - Mar 29 (30 days). Exams: Apr 1 - Apr 5. Labs + Act: Apr 8 - Apr 12
Block #4: Msc Thesis. Apr 23 - Sep 6
Exams
Activities
Laboratories
Non-working days & holidays

BLOCK 1A (Campus: Universitat Autònoma de Barcelona, Centre de Recerca Matemàtica, Facultat de Ciències, UAB.)

Compulsory courses – only MSc in Photonics students: from 12/09/2018 to 11/10/2018 (21 teaching days)

Notes:

Seminars and skills is an 8 hours optional seminar (not included in the Course Program. Attendance is highly recommended)

The first sessions of Photonics Lab will be held on October 1st and 5th.

	MONDAY		TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
10:00-11:00	SEMINARS AND SKILLS (17/09) Lecture Room A2					SEMINARS AND SKILLS (21/09 and 28/09) Lecture Room A2
11:00-12:00				SEMINARS		
12:00-13:00				Lecture Room A2		
13:00-14:00						
14:00-15:00	INTRODUCTION TO PHOTONICS			INTRODUCTION TO PHOTONICS	INTRODUCTION TO PHOTONICS	
15:00-16:00	Lecture Room A2	October 1 only		Lecture Room A2	Lecture Room A2	October 5 only
16:00-17:00	BEAM PROPAGATION AND FOURIER OPTICS	LAB. SESSION 1 (UPC / UAB / UB)		BEAM PROPAGATION AND FOURIER OPTICS	BEAM PROPAGATION AND FOURIER OPTICS	LABORATORY SESSION 1 (UPC / UAB / UB)
17:00-18:00	Lecture Room A2			Lecture Room A2	Lecture Room A2	
18:00-19:00						

BLOCK 1B (Campus: Universitat Autònoma de Barcelona, A2 and Pol 2)

Compulsory courses (orange) – only MSc in Photonics students : from 15/10/2018 to 23/11/2018 (6 teaching weeks)

Elective courses (green): from 15/10 to 23/11 2018 (6 teaching weeks)

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
11:00-12:00			SEMINARS Lecture Room A2		
12:00-13:00					
13:00-14:00					
14:00-15:00	INTRODUCTION TO PHOTONICS Lecture Room A2	QUANTUM OPTICS(*) Lecture Room A2	INTRODUCTION TO PHOTONICS Lecture Room A2	OPTOELECTRONICS & PHOTOVOLTAIC TECHNOLOGY Lecture Room A2	QUANTUM OPTICS(*) Lecture Room A2
15:00-16:00		ACTIVE AND SPECTRAL IMAGING(*) Lecture Room Pol 2			ACTIVE AND SPECTRAL IMAGING(*) Lecture Room Pol 2
16:00-17:00	BEAM PROPAGATION AND FOURIER OPTICS Lecture Room A2	MEASURING WITH LIGHT Lecture Room A2	BEAM PROPAGATION AND FOURIER OPTICS Lecture Room A2	MEASURING WITH LIGHT Lecture Room A2	PHOTONICS MATERIALS AND METAMATERIALS Lecture Room A2
17:00-18:00					
18:00-19:00	OPTOELECTRONICS & PHOTOVOLTAIC TECHNOLOGY Lecture Room A2	MACHINE LEARNING ON CLASSICAL & QUANTUM DATA Lecture Room A2	PHOTONICS MATERIALS AND METAMATERIALS Lecture Room A2	MACHINE LEARNING ON CLASSICAL & QUANTUM DATA Lecture Room A2	BEAM PROPAGATION AND FOURIER OPTICS Lecture Room A2
19:00-20:00					

(*) Courses that overlap on time cannot be chosen simultaneously

BLOCK 1A & 1B (Campus: Universitat Autònoma de Barcelona, A2)

EXAMS: 26/11/2018 to 29/11/2018

	MONDAY 26/11	TUESDAY 27/11	WEDNESDAY 28/11	THURSDAY 29/11
14:00-15:00	INTRODUCTION TO PHOTONICS Lecture Room A2	QUANTUM OPTICS Lecture Room A2	BEAM PROPAGATION AND FOURIER OPTICS Lecture Room A2	PHOTONICS MATERIALS AND METAMATERIALS Lecture Room A2
15:00-16:00				
16:00-17:00				
17:00-18:00	ACTIVE AND SPECTRAL IMAGING Lecture Room A2	OPTOELECTRONICS & PHOTOVOLTAIC TECHNOLOGY Lecture Room A2	MACHINE LEARNING ON CLASSICAL & QUANTUM DATA Lecture Room A2	MEASURING WITH LIGHT Lecture Room A2
18:00-19:00				
19:00-20:00				

ACTIVITIES WEEK: 30/11 to 5/12/2018

	FRIDAY 30/11	MONDAY 3/12	TUESDAY 4/12	WEDNESDAY 5/12
14:00-15:00	LABORATORY SESSION 2 (UPC / UAB / UB)	LABORATORY SESSION 2 (UPC / UAB / UB)	QUANTUM OPTICS ACTIVE AND SPECTRAL IMAGING PHOTONICS MATERIALS AND METAMATERIALS	MEASURING WITH LIGHT MACHINE LEARNING ON CLASSICAL & QUANTUM DATA OPTOELECTRONICS & PHOTOVOLTAIC DEVICES
15:00-16:00				
16:00-17:00				
17:00-18:00				
18:00-19:00				
19:00-20:00				

Visits to laboratories and research centers of UPC, UAB, UB, and ICFO might be organized during the activities week. The timetable for these activities will be coordinated by the corresponding professors. Please save the dates!

BLOCK 2 (Campus Nord, UPC, buildings A3, A4 or A5)

6 TEACHING WEEKS (10/12/2018 to 21/12/2018 and 07/01/2019 to 01/02/2019)

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
10:00-11:00					
11:00-12:00			SEMINARS Lecture Room A3205		
12:00 -13:00					
13:00-14:00					
14:00-15:00	VISUAL BIOPHOT (*) Lecture Room A5101	NONLINEAR OPTICS Lecture Room A5101	VISUAL BIOPHOT (*) Lecture Room A5101	NONLINEAR OPTICS Lecture Room A5101	INTEGRATED PHOTONICS (*) Lecture Room A5101
15:00-16:00	ADV. QUANTUM OPTICS WITH APPLICATIONS (*) Lecture Room A2201		ADV. QUANTUM OPTICS WITH APPLICATIONS (*) Lecture Room A2201		FROM TRAPPING TO COOLING... (*) Lecture Room A2201
16:00-17:00	BUSINESS & PATENTS IN PHOTONICS (continue in BLOCK 3) Lecture Room A5101	LASER SYSTEMS & APPLICATIONS Lecture Room A5101	IMAGE PROC. IN BIOPHOTONICS Lecture Room A5101	LASER SYSTEMS & APPLICATIONS Lecture Room A5101	BUSINESS & PATENTS IN PHOTONICS (continue in BLOCK 3) Lecture Room A5101
17:00-18:00					
18:00-19:00	FIBERS & TELECOM Lecture Room A5101	INTEGRATED PHOTONICS (*) Lecture Room A5101	FIBERS & TELECOM Lecture Room A5101	FIBERS & TELECOM Lecture Room A5101	
19:00-20:00		FROM TRAPPING TO COOLING... (*) Lecture Room A2201			

(*) Courses that overlap on time cannot be chosen simultaneously

BLOCK 2 (Campus Nord: UPC, buildings A3, A4 or A5)

EXAMS: 04/02/2019 - 08/02/2019

	MONDAY 4/02	TUESDAY 5/02	WEDNESDAY 6/02	THURSDAY 7/02	FRIDAY 8/02
14:00-15:00	VISUAL BIOPHOT Lecture Room A5101	LASER SYSTEMS & APPLICATIONS Lecture Room A5101	IMAGE PROC. IN BIOPHOTONICS Lecture Room A5101	NONLINEAR OPTICS Lecture Room A5101	FROM TRAPPING TO COOLING... Lecture Room A5101
15:00-16:00					
16:00-17:00					
17:00-18:00	ADV. QUANTUM OPTICS WITH APPLICATIONS Lecture Room A5101	INTEGRATED PHOTONICS Lecture Room A5101		FIBERS & TELECOM Lecture Room A5101	
18:00-19:00					
19:00-20:00					

ACTIVITIES WEEK: 11/02/2019 - 15/02/2019

	MONDAY 11/02	TUESDAY 12/02	WEDNESDAY 13/02	THURSDAY 14/02	FRIDAY 15/02
14:00-15:00	LABORATORY 3st SESSION <i>[at several campuses]</i>	LASER SYSTEMS & APPL INT. PHOTONICS FROM TRAPPING TO COOLING...	FIBERS AND TELECOM IMAGE PROC. IN BIOPHOTONICS NONLINEAR OPTICS	VISUAL BIOPHOT. ADV. QUANTUM OPTICS	LABORATORY 3st SESSION <i>[at several campuses]</i>
15:00-16:00					
16:00-17:00					
17:00-18:00					
18:00-19:00					
19:00-20:00					

Visits to laboratories and research centers of UPC, UAB, UB, and ICFO might be organized during the activities week. The timetable for these activities will be coordinated by the corresponding professors. Please save the dates!

BLOCK 3 (Campus Nord of UPC, buildings A3, A4 or A5)

6 TEACHING WEEKS (18/02/2019 to 29/03/2019)

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
11:00-12:00			SEMINARS Lecture Room A3205		
12:00 -13:00					
13:00-14:00					
14:00-15:00	QUANTUM INFORMATION THEORY (*) Lecture Room A5101 MANAGING LIGHT WITH DEVICES (*) Lecture Room A2201	ULTRAFAST & ULTRAIINTENSE LASER LIGHT (*) Lecture Room A5101	QUANTUM INFORMATION THEORY(*) Lecture Room A5101 MANAGING LIGHT WITH DEVICES (*) Lecture Room A2201	ULTRAFAST & ULTRAIINTENSE LASER LIGHT(*) Lecture Room A5101 OPT. MICROMAN. WORKSHOP(*) Lab 526 UB-PHYSICS	EXPERIMENTAL OPTICAL TECHNIQUES IN BIOLOGY ICFO
15:00-16:00					
16:00-17:00	BUSINESS AND PATENTS IN PHOTONICS This course ends on 13/03 Lecture Room A5101	QUANTUM SIMULATORS (*) Lecture Room A5101	BUSINESS AND PATENTS IN PHOTONICS This course ends on 13/03 Lecture Room A5101	QUANTUM SIMULATORS (*) Lecture Room A5101 OPT. MICROMAN. WORKSHOP(*) Lab 526 UB-PHYSICS	
17:00-18:00					
18:00-19:00	NANOPHOTONICS Lecture Room A5101	PHOTONIC SYST. IN TELECOM Lecture Room A5101	NANOPHOTONICS Lecture Room A5101	PHOTONIC SYST. IN TELECOM Lecture Room A5101	
19:00-20:00					

(*) Courses that overlap on time cannot be chosen simultaneously.

BLOCK 3 (Campus Nord of UPC, buildings A3, A4 or A5)

EXAMS: from 01/04/2019 - 05/04/2019

	MONDAY 1/04	TUESDAY 2/04	WEDNESDAY 3/04	THURSDAY 4/04	FRIDAY 5/04
14:00-15:00	QUAUTUM INF. THEORY Lecture Room A5101	ULTRAFAST & ULTRAINTENSE LASER LIGHT Lecture Room A5101	QUANTUM SIMULATORS Lecture Room A5101	PHOTONICS SYST. IN TELECOM Lecture Room A5101	EXPERIMENTAL OPTICAL TECHNIQUES IN BIOLOGY ICFO
15:00-16:00					
16:00-17:00					
17:00-18:00	BUSINESS & PATENTS IN PHOTONICS Lecture Room A5101	MANAGING LIGHT WITH DEVICES Lecture Room A5101	NANOPHOTONICS Lecture Room A5101	OPT. MICROMAN. WORKSHOP Lab. 526 UB-PHYSICS	
18:00-19:00					
19:00-20:00					

ACTIVITIES WEEK: from 08/04/2019 – 12/04/2019

	MONDAY 8/04	TUESDAY 9/04	WEDNESDAY 10/04	THURSDAY 11/04	FRIDAY 12/04
14:00-15:00	LABORATORY SESSION 4 (UPC / UAB / UB)	MANAGING LIGHT WITH DEVICES NANOPHOTONICS QUANTUM SIMULATORS	BUSINESS AND PATENTS ULTRAFAST & ULTRAINT. LASER LIGHT PHOTONICS SYST. IN TELECOM	QUANTUM INFORMATION EXPERIMENTAL OPTICAL TECHNIQUES IN BIOLOGY OPT. MICROMAN. WORKSHOP	LABORATORY SESSION 4 (UPC / UAB / UB)
15:00-16:00					
16:00-17:00					
17:00-18:00					
18:00-19:00					
19:00-20:00					

Visits to laboratories and research centers of UPC, UAB, UB, and ICFO might be organized during the activities week. The timetable for these activities will be coordinated by the corresponding professors. Please save the dates!

Spring school: Photonics Engineering, Nanophotonics and Biophotonics
 Date **A2201 2019, Marseille, France.** (Master in Photonics students are also invited).

Master Thesis Project

BLOCK 4 is devoted to the Master Thesis work

Final oral defense sessions will be organized in **July (17-19) & September (4-6)**

GENERAL ASPECTS

- LABORATORY:**
- **SESSION 1:** October 1 and 5, 2018
 - **SESSION 2:** November 30 and December 3, 2018
 - **SESSION 3:** February 11 and 15, 2019
 - **SESSION 4:** April 8 and 12, 2019

SEMINARS:

A **2 hours/week slot** (on Wednesday from 11 to 13h) 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 Exam 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.