

*MASTER IN PHOTONICS*  
*and*  
*MASTER EUROPHOTONICS-POESII*

**TIMETABLE for ACADEMIC YEAR 2017/2018**

**STARTING DATE:** MSc. in Photonics: **12/09/2017** (registration before September 8<sup>th</sup>)  
MSc. Europhotonics: **9/10/2017** (registration before October 6<sup>th</sup>)

### **TEACHING BLOCKS**

Lectures (common for both Masters) are grouped into **3 teaching blocks + 4<sup>th</sup> block dedicated to the Master Thesis**

**Block 1:** 12/09 - 5/12 2017 (for the MSc. in Photonics)  
9/10 - 5/12 2017 (for the MSc. Europhotonics)

- **Compulsory courses (5 ECTS)** start on 12/09/2017 (10 teaching weeks + exams + activities week. The first 4 weeks are dedicated exclusively to compulsory courses.
- **Elective courses (3 ECTS)** start on 9/10/2017 (6 teaching weeks + exams + activities week)

**Block 2:** 11/12/2017- 18/02/2018 (for both Masters).

*Christmas holidays: 23/12/2017 - 7/01/2018*

**Block 3:** 19/02 – 22/04/2018 (for both Master).

*Easter holidays: 26<sup>th</sup> of March – 2<sup>nd</sup> of April 2018*

**Block 4 (MSc Thesis):** 23/04 – 7/09/2018 (for both Master).

*Summer holidays may be taken in August (if the MSc work is advanced enough).*

SEPTEMBER 2017						
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 2017						
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 2017						
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 2017						
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 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				

FEBRUARY 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				

MARCH 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	

APRIL 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						

MAY 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			

JUNE 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	

JULY 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					

AUGUST 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		

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

TEACHING COMPULSORY CURSES ONLY
TEACHING COMPULSORY AND ELECTIVES
EXAMS
Laboratory and ACTIVITIES
MSc THESIS
HOLIDAYS & NON-WORKING DAYS

# BLOCK 1 (Campus: Universitat de Barcelona, Faculty of Physics -New Bulding- ground floor )

Compulsory courses: from 12/09 to 21/11 2017 (10 teaching weeks)

First 3 weeks (12/09 – 29/09): compulsory courses only

“Seminars and skills is an 8 hours optional seminar (not included in the Course Program)

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
10:00-11:00	SEMINARS AND SKILLS (18/09)  room V12M				
11:00-12:00			SEMINARS		
12:00-13:00			room N07P		
13:00-14:00					
14:00-15:00	INTRODUCTION TO PHOTONICS  room N07P		INTRODUCTION TO PHOTONICS  room N07P	INTRODUCTION TO PHOTONICS  room N07P	SEMINARS AND SKILLS (15/09)  room N07P
15:00-16:00					
16:00-17:00	BEAM PROPAGATION AND FOURIER OPTICS  room N07P		BEAM PROPAGATION AND FOURIER OPTICS  room N07P	BEAM PROPAGATION AND FOURIER OPTICS  room N07P	
17:00-18:00					
18:00-19:00					

4<sup>th</sup> week (2/10 – 6/10): compulsory courses only

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
11:00-12:00	SEMINARS AND SKILLS (2/10) room N07P		SEMINARS  room A43M		
12:00-13:00					
13:00-14:00					
14:00-15:00	INTRODUCTION TO PHOTONICS  room N07P		INTRODUCTION TO PHOTONICS  room N07P		LABORATORY 1 <sup>st</sup> SESSION  [at several campus]
15:00-16:00					
16:00-17:00	BEAM PROPAGATION AND FOURIER OPTICS  room N07P	[at several campus]	BEAM PROPAGATION AND FOURIER OPTICS  room N07P	BEAM PROPAGATION AND FOURIER OPTICS  room N07P	
17:00-18:00					
18:00-19:00					

# BLOCK 1 (Campus: Universitat de Barcelona )

Compulsory courses (orange): from 12/09 to 21/11 2017 (10 teaching weeks)

Elective courses (green): from 9/10 to 21/11 2017 (6 teaching weeks)

Last 6 weeks (9/10 – 21/11): compulsory & elective courses

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
11:00-12:00			SEMINARS room N07P		
12:00-13:00					
13:00-14:00					
14:00-15:00	INTRODUCTION TO PHOTONICS  room N07P	QUANTUM OPTICS(*)  room N07P	INTRODUCTION TO PHOTONICS  room N07P	OPTOELECTRONICS & PHOTOVOLTAIC TECHNOLOGY  room N07P	QUANTUM OPTICS(*)  room N07P
15:00-16:00		ACTIVE AND SPECTRAL IMAGING(*) room A43M			ACTIVE AND SPECTRAL IMAGING(*) room A43M
16:00-17:00	BEAM PROPAGATION AND FOURIER OPTICS  room N07P	MEASURING WITH LIGHT  room N07P	BEAM PROPAGATION AND FOURIER OPTICS  room N07P	MEASURING WITH LIGHT  room N07P	PHOTONICS MATERIALS AND METAMATERIALS  room N07P
17:00-18:00					
18:00-19:00	OPTOELECTRONICS & PHOTOVOLTAIC TECHNOLOGY  room N07P	MACHINE LEARNING ON CLASSICAL & QUANTUM DATA  room N07P	PHOTONICS MATERIALS AND METAMATERIALS  room N07P	MACHINE LEARNING ON CLASSICAL & QUANTUM DATA  room N07P	BEAM PROPAGATION AND FOURIER OPTICS  room N07P
19:00-20:00					

(\*) These pairs of courses overlap in time. They can not be chosen simultaneously.

# BLOCK 1 (Campus: Universitat de Barcelona)

**EXAMS: 22 to 28/11/2017**

	Wednesday(22/11)	Thursday (23/11)	FRIDAY (24/11)	MONDAY(27/11)	TUESDAY (28/11)
14:00-15:00	INTRODUCTION TO PHOTONICS  room N07P	QUANTUM OPTICS room N07P	BEAM PROPAGATION AND FOURIER OPTICS  room N07P	PHOTONICS MATERIALS AND METAMATERIALS  room N07P	OPTOELECTRONICS & PHOTOVOLTAIC TECHNOLOGY  room N07P
15:00-16:00					
16:00-17:00		ACTIVE AND SPECTRAL IMAGING Room A43M			
17:00-18:00		MACHINE LEARNING  room N07P		MEASURING WITH LIGH  room N07P	
18:00-19:00					
19:00-20:00					

**ACTIVITIES WEEK: 29/11 to 5/12/2017**

	WEDNESDAY(29/11)	THURSDAY(30/11)	FRIDAY(1/12)	MONDAY(4/12)	TUESDAY(5/12)	
14:00-15:00	OPTOELECTRONICS & PHOTOVOLTAIC DEVICES	PHOTONICS MATERIALS AND METAMATERIALS			ACTIVE AND SPECTRAL IMAGING	
15:00-16:00						
16:00-17:00				LABORATORY 2 <sup>nd</sup> SESSION  <i>[at several campus]</i>		LABORATORY 2 <sup>nd</sup> SESSION  <i>[at several campus]</i>
17:00-18:00						
18:00-19:00						
19:00-20:00						

*(Time table for activities scheduled in the same day should be coordinated by the corresponding professors)*

On **the activity week** several visits to different laboratories and research centers of UB, UAB and UPC will be organized. The schedule will be announced latter. **Please save the dates!**

# BLOCK 2 (Campus Nord, UPC, building A5 and A4)

6 TEACHING WEEKS (11/12/2017 to 4/02/2018)

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
10:00-11:00					
11:00-12:00			SEMINARS room A4204		
12:00 -13:00					
13:00-14:00					
14:00-15:00	VISUAL BIOPHOT (*) room A5101	NONLINEAR OPTICS room A5101	VISUAL BIOPHOT (*) room A5101	NONLINEAR OPTICS room A5101	INTEGRATED PHOTONICS room A5101
15:00-16:00	ADV. QUANTUM OPTICS WITH APPLICATIONS(*) room A4206		ADV. QUANTUM OPTICS WITH APPLICATIONS(*) room A4206		FROM TRAPPING TO COOLING... room A4206
16:00-17:00	BUSINESS & PATENTS IN PHOTONICS (continue in BLOCK 3) room A5101	LASER SYSTEMS & APPLICATIONS room A5101	IMAGE PROC. IN BIOPHOTONICS room A5101	LASER SYSTEMS & APPLICATIONS room A5101	BUSINESS & PATENTS IN PHOTONICS (continue in BLOCK 3) room A5101
17:00-18:00					
18:00-19:00	FIBERS & TELECOM room A5101	INTEGRATED PHOTONICS room A5101		FIBERS & TELECOM room A5101	
19:00-20:00		FROM TRAPPING TO COOLING... room A4206			

(\*) These pairs of courses overlap in time. They can not be chosen simultaneously.

# BLOCK 2 (Campus Nord: UPC)

## EXAMS: 5 - 9/02/2018

	MONDAY(5/02)	TUESDAY(6/02)	WEDNESDAY(7/02)	THURSDAY(8/02)	FRIDAY(9/02)
14:00-15:00	VISUAL BIOPHOT room A5101  ADV. QUANTUM OPTICS WITH APPLICATIONS room A4206	LASER SYSTEMS & APPLICATIONS  room A5101	IMAGE PROC. IN BIOPHOTONICS room A5101	NONLINEAR OPTICS  room A5101	INT. PHOTONICS room A5101  FROM TRAPPING TO COOLING... room A4206
15:00-16:00					
16:00-17:00					
17:00-18:00				FIBERS & TELECOM room A5101	
18:00-19:00					
19:00-20:00					

## ACTIVITIES WEEK: 12 - 18/02/2018

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

*(Time table for activities scheduled in the same day should be coordinated by the corresponding professors)*



# BLOCK 3 (Campus Nord of UPC)

6 TEACHING WEEKS (19/02 to 6/04/2018)

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
11:00-12:00			SEMINARS room A4204		
12:00 -13:00					
13:00-14:00					
14:00-15:00	QUANTUM SIMULATORS (*) room A5101  MANAGING LIGHT WITH DEVICES (*) room A4206	ULTRAFAST & ULTRAINTENSE LASER LIGHT  room A5101	QUANTUM SIMULATORS (*) room A5101  MANAGING LIGHT WITH DEVICES (*) room A4206	ULTRAFAST & ULTRAINTENSE LASER LIGHT  room A5101	EXPERIMENTAL OPTICAL TECHNIQUES IN BIOLOGY  room: ICFO-laboratory
15:00-16:00					
16:00-17:00	BUSINESS AND PATENTS IN PHOTONICS This course ends on 14/03  room A5101	QUANTUM INFORMATION THEORY  room A5101	BUSINESS AND PATENTS IN PHOTONICS This course ends on 14/03  room A5101	QUANTUM INFORMATION THEORY (*) room A5101	
17:00-18:00				OPT. MICROMAN. WORKSHOP (*) room 526 UB-PHYSICS	
18:00-19:00	NANOPHOTONICS  room A5101	PHOTONIC SYST. IN TELECOM  room A5101	NANOPHOTONICS  room A5101	PHOTONIC SYST. IN TELECOM (*) room A5101	
19:00-20:00				OPT. MICROMAN. WORKSHOP (*) room 526 UB-PHYSICS	

(\*) These pairs of curses overlap in time. They can not be chosen simultaneously.

# BLOCK 3 (Campus Nord of UPC)

EXAMS: from 9 to 13 of April 2018

	MONDAY(9/04)	TUESDAY(10/04)	WEDNESDAY(11/04)	THURSDAY(12/04)	FRIDAY(13/04)
14:00-15:00	QUAUTUM INF. THEORY room A5101	ULTRAFAST & ULTRAINTENSE LASER LIGHT room A5101	QUANTUM SIMULATORS room A5101  MANAGING LIGHT WITH DEVICES room A4206	PHOTONICS SYST. IN TELECOM room A5101	EXPERIMENTAL OPTICAL TECHNIQUES IN BIOLOGY  ICFO-laboratory
15:00-16:00					
16:00-17:00					
17:00-18:00			NANOPHOTONICS room A5101	OPT. MICROMAN. WORKSHOP  AULA:526 UB-PHYSICS	
18:00-19:00					
19:00-20:00					

ACTIVITIES WEEK: from 16 to 20 of April 2018

	MONDAY(16/04)	TUESDAY(17/04)	WEDNESDAY(18/04)	THURSDAY(19/04)	FRIDAY(20/04)		
14:00-15:00		MANAGING LIGHT WITH DEVICES & NANOPHOTONICS & QUANTUM SIMULATORS	ULTRAFAST & ULTRAINT. LASER LIGHT & PHOTONICS SYST. IN TELECOM	QUANTUM INFORMATION & EXPERIMENTAL OPTICAL TECHNIQUES IN BIOLOGY & OPT. MICROMAN. WORKSHOP			
15:00-16:00	LABORATORY 4 <sup>st</sup> SESSION  <i>[at several campus]</i>						LABORATORY 4 <sup>st</sup> SESSION  <i>[at several campus]</i>
16:00-17:00							
17:00-18:00							
18:00-19:00							
19:00-20:00							

*(Time table for activities schaduled in the same day should be coordinated by the corresponding professors)*

Date to be announced

Spring school: about Photonics Engineering, Nanophotonics and Biophotonics

Organized by the Europhotonics MSc. and Doctorate Programs (students of the Master in Photonics are also invited).

- Master Thesis Project

**BLOCK 4** is devoted mainly to the Master Thesis work

Final oral defense sessions will be organized in **July (18-20) & September (5-7)**

## GENERAL ASPECTS

- LABORATORY:**
- **SESSION 1:** October 3<sup>th</sup> & 6<sup>th</sup>, 2017
  - **SESSION 2:** December 1<sup>st</sup> and 4<sup>th</sup>, 2017
  - **SESSION 3:** February 12<sup>th</sup> & 16<sup>th</sup>, 2018
  - **SESSION 4:** April 16<sup>th</sup> & 20<sup>th</sup>, 2018

### **SEMINARS:**

A slot of **2 hours/week** (on Wednesday from 11 to 13h) are reserved for **seminars** given by internationally well-known invited professors and researchers as well as specialists in different fields of applied photonics coming from companies. 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 evaluation procedure, as pointed out in the Course Contents. The evaluation acts (exams, presentations,...) will be done within the scheduled "Exam week" at the end of each teaching block. Nevertheless, exceptionally, some evaluation act could be performed outside those scheduled times if professor and students agree on that.

### **OTHER POSSIBLE CIRCUMSTANCES**

If, exceptionally, some unexpected circumstance appears, which obliges to cancel some lecture session, or some special activity is planned, it could be performed outside the scheduled, if professor and students agree.