UNIVERSITAT POLITÈCNICA DE CATALUNYA

UAB Universitat Autònoma de Barcelona

UNIVERSITAT DE BARCELONA

ICFO Institut de Ciències Fotòniques

MASTER IN PHOTONICS

and

MASTER EUROPHOTONICS

TIMETABLE for ACADEMIC YEAR 2014/2015

GENERAL ASPECTS — MSc in PHOTONICS & EUROPHOTONICS (2014/2015)

STARTING DATE: **MSc. in Photonics: September 15th 2014**
(Registration must be performed before September 8th)

MSc. Europhotonics: October 13th 2014
(Registration must be performed before October 6th)

TEACHING BLOCKS and HOLIDAYS:

Lectures (common for both Masters) are grouped into **4 teaching blocks:**

Block 1: September 15th - December 7th 2014 (for the MSc. in Photonics)
October 13th - December 7th 2014 (for the MSc. Europhotonics)

Compulsory courses *start on September 15th (10 teaching weeks)*

Elective courses *start on October 13th (6 weeks)*

non-working days:
September 24st

Block 2: December 8th 2014- February 15th 2015 (for both Masters).

Christmas holidays: *December 20th, 2014 - January 6th, 2015.*

non-working days:
December 8th
January 6th & 28th

Block 3: February 16th to April 19th (for both Master).

Easter holidays: *March 30st - April 6th 2015*

Block 4 (MSc Thesis): April 20th to September 10th.

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

non-working days:
May 1st
Juny 24th

BLOCK 1 (Campus: Universitat Autònoma de Barcelona) 15/09 to 7/12, 2014

Compulsory courses (orange): from 15/09 to 23/11 2014 (10 teaching weeks)

First 3 weeks (15/09 – 5/10): compulsory courses

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
11:00-12:00			SEMINARS AULA - c3b/-102		
12:00-13:00					
13:00-14:00					
14:00-15:00	INTRODUCTION TO PHOTONICS AULA - c3b/-102	SEMINARS AND SKILS AULA –c3b/-102 (*) the session on 30/09 will be from 14 to 18h)	INTRODUCTION TO PHOTONICS AULA -c3b/-102	INTRODUCTION TO PHOTONICS AULA -c3b/-102	
15:00-16:00					
16:00-17:00	BEAM PROPAGATION AND FOURIER OPTICS AULA - c3b/-102		BEAM PROPAGATION AND FOURIER OPTICS AULA - c3b/-102	BEAM PROPAGATION AND FOURIER OPTICS AULA - c3b/-102	
17:00-18:00					
18:00-19:00					

4th week (6/10 – 12/10): compulsory courses

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
11:00-12:00			SEMINARS AULA - c3b/-102		
12:00-13:00					
13:00-14:00					
14:00-15:00	INTRODUCTION TO PHOTONICS AULA - c3b/-102		INTRODUCTION TO PHOTONICS AULA -c3b/-102		
15:00-16:00		LABORATORY 1st SESSION *[at several campus]*			LABORATORY 1st SESSION *[at several campus]*
16:00-17:00	BEAM PROPAGATION AND FOURIER OPTICS AULA - c3b/-102		BEAM PROPAGATION AND FOURIER OPTICS AULA - c3b/-102		
17:00-18:00					
18:00-19:00					

BLOCK 1 (Campus: Universitat Autònoma de Barcelona) 15/09 to 7/12, 2014

Compulsory courses (orange): from 15/09 to 23/11 2014 (10 teaching weeks)

Elective courses (green): from 13/10 to 23/11 2014 (6 teaching weeks)

Last 6 weeks (13/10 – 23/11): both compulsory and elective courses

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
11:00-12:00			SEMINARS AULA - c3b/-102		
12:00-13:00					
13:00-14:00					
14:00-15:00	INTRODUCTION TO PHOTONICS AULA - c3b/-102	QUANTUM OPTICS AULA - c3b/-102	INTRODUCTION TO PHOTONICS AULA -c3b/-102	PHOTONICS MATERIALS AND METAMATERIALS AULA - c3b/-102	QUANTUM OPTICS AULA - c3b/-102
15:00-16:00					
16:00-17:00	BEAM PROPAGATION AND FOURIER OPTICS AULA - c3b/-102	OPTICAL IMAGING IN BIOLOGY AND MEDICINE AULA -c3b/-102	BEAM PROPAGATION AND FOURIER OPTICS AULA - c3b/-102	OPTICAL IMAGING IN BIOLOGY AND MEDICINE AULA - c3b/-102	PHOTONICS MATERIALS AND METAM ATERIALS AULA -c3b/-102
17:00-18:00					
18:00-19:00	OPTOELECTRONICS & PHOTOVOLTAIC TECHNOLOGY AULA - c3b/-102	**BUILDING OPTOMEC. SYSTEMS** AULA - c3b/-102	OPTOELECTRONICS & PHOTOVOLTAIC TECHNOLOGY AULA - c3b/-102	**BUILDING OPTOMEC. SYSTEMS** AULA -c3b/-102	
19:00-20:00					

BLOCK 1 (Campus: Universitat Autònoma de Barcelona) 15/09 to 7/12, 2014

EXAMS: 24/11 to 28/11/2014

	MONDAY(24/11)	TUESDAY(25/11)	WEDNESDAY(26/11)	THURSDAY(27/11)	FRIDAY(28/11)
14:00-15:00	INTRODUCTION TO PHOTONICS AULA -c3b/-102	QUANTUM OPTICS AULA - c3b/-102	BEAM PROPAGATION AND FOURIER OPTICS AULA - c3b/-102	PHOTONICS MATERIALS AND METAMATERIALS AULA - c3b/-102	
15:00-16:00					
16:00-17:00					
17:00-18:00	OPTOELECTRONICS & PHOTOVOLTAIC TECHNOLOGY AULA - c3b/-102	BUILDING OPTOMEC. SYSTEMS AULA - c3b/-102		OPTICAL IMAGING IN BIOLOGY AND MEDICINE AULA - c3b/-102	
18:00-19:00					
19:00-20:00					

ACTIVITIES WEEK: 1/12/2014 to 5/12/2014

	MONDAY(1/12)	TUESDAY(2/12)	WEDNESDAY(3/12)	THURSDAY(4/12)	FRIDAY(5/12)
14:00-15:00		QUANTUM OPTICS & INTROD. PHOTONICS	BEAM PROPAGATION AND FOURIER OPTICS & OPTOELECTRONICS & PHOTOVOLTAIC DEVICES	PHOTONICS MATERIALS AND METAMATERIALS & OPTICAL IMAGING IN BIOLOGY AND MEDICINE	
15:00-16:00	LABORATORY 2st SESSION *[at several campus]*				LABORATORY 2st SESSION *[at several campus]*
16:00-17:00					
17:00-18:00					
18:00-19:00					
19:00-20:00					

(Time table for these activities should be coordinated)

BLOCK 2 (Campus Nord: UPC) 8/12/2014 to 15/02/2015

6 TEACHING WEEKS (8/12/2014 to 2/02/2015)

Since Dec. 8th & Jan. 5th (both on Monday) are non-working days, this block starts on Tuesday, Dec. 9th and ends on Monday, Feb. 2nd.

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
10:00-11:00					
11:00-12:00			SEMINARS AULA: A5205		
12:00 -13:00					
13:00-14:00					
14:00-15:00	ADV. QUANTUM OPTICS WITH APPLICATIONS AULA: A5205	NONLINEAR OPTICS AULA: A5205	ADV. QUANTUM OPTICS WITH APPLICATIONS AULA: A5205	NONLINEAR OPTICS AULA: A5205	INTEGRATED PHOTONICS AULA: A5205
15:00-16:00					
16:00-17:00	BUSINESS & PATENTS IN PHOTONICS (to be continued in BLOCK 3) AULA: A5205	LASER SYSTEMS & APPLICATIONS AULA: A5205	INT. PHOTONICS (*)AULA: A5205 OPT. MICROMAN. WORKSHOP AULA:526 UB-PHYSICS	LASER SYSTEMS & APPLICATIONS AULA: A5205	BUSINESS & PATENTS IN PHOTONICS (to be continued in BLOCK 3) AULA: A5205
17:00-18:00					
18:00-19:00	FIBERS & TELECOM AULA:A5205	*VISUAL BIOPHOT & MULTISPECTRAL IMAGING* (*) AULA:A5205 QUANTUM SIMULATORS (*) AULA:A5206	FIBERS & (*) TELECOM AULA: A5205 OPT. MICROMAN. WORKSHOP (*) AULA:A5206	*VISUAL BIOPHOT & MULTISPECTRAL IMAGING* (*) AULA:A5205 QUANTUM SIMULATORS (*) AULA:A5206	
19:00-20:00					

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

BLOCK 2 (Campus Nord: UPC) 8/12/2014 to 15/02/2015

EXAMS: 3/02 to 6/02/2015

	MONDAY(2/02) (teaching day)	TUESDAY(3/02)	WEDNESDAY(4/02)	THURSDAY(5/02)	FRIDAY(6/02)
14:00-15:00	ADV. QUANTUM OPTICS WITH APPLICATIONS AULA: A5205	NONLINEAR OPTICS AULA: A5205	INT. PHOTONICS AULA: A5205	*VISUAL BIOPHOT & MULTISPECTRAL IMAGING* AULA:A5205	ADV. QUANTUM OPTICS WITH APPLICATIONS AULA: A5205
15:00-16:00					
16:00-17:00	BUSINESS & PATENTS IN PHOTONICS AULA: A5205				
17:00-18:00		LASER SYSTEMS & APPLICATIONS AULA: A5205	OPT. MICROMAN. WORKSHOP AULA:526 UB-PHYSICS	QUANTUM SIMULATORS AULA:A5205	FIBERS & TELECOM AULA:A5205
18:00-19:00	FIBERS & TELECOM AULA:A5205				
19:00-20:00					

ACTIVITIES WEEK (9/02 to 13/02/2015)

	MONDAY(9/02)	TUESDAY(10/02)	WEDNESDAY(11/02)	THURSDAY(12/02)	FRIDAY(13/02)
14:00-15:00		NONLINEAR OPTICS & LASER SYSTEMS & APPL & PHOT. & BUISNESS	EXP. QUANTUM OPTICS & INTEGRATED PHOT. & FIBERS AND TELECOM	VISUAL BIOPHOT. & QUANTUM SIMULATORS	
15:00-16:00	LABORATORY 3st SESSION *[at several campus]*				LABORATORY 3st SESSION *[at several campus]*
16:00-17:00					
17:00-18:00					
18:00-19:00					
19:00-20:00					

(Time table for these activities should be coordinated)

BLOCK 3 (Campus Nord of UPC) 16/02/2015 to 19/04/2015

6 TEACHING WEEKS (16/02/2015 to 29/03/2015)

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
11:00-12:00			SEMINARS AULA:A5205		
12:00 -13:00					
13:00-14:00					
14:00-15:00	MANAGING LIGHT WITH DEVICES AULA:A5205	ULTRAFAST & ULTRAINTENSE LASER LIGHT-AULA:A5205	MANAGING LIGHT WITH DEVICES-AULA: A5205	ULTRAFAST & ULTRAINTENSE LASER LIGHT AULA:A5205	MEASURING WITH LIGHT (optical metrology) AULA:A5205
15:00-16:00					
16:00-17:00	BUSINESS AND PATENTS IN PHOTONICS This course ends on 14/03 AULA:A5205	IMAGE PROC. IN BIOPHOT (*) AULA:A5205	MEASURING WITH LIGHT (optical metrology) AULA: A5205	QUANTUM INFORMATION THEORY AULA:A5205	BUSINESS AND PATENTS IN PHOTONICS This course ends on 14/03 AULA:A5205
17:00-18:00		PHOTONICS SYST. IN TELECOM(*) Aula-A5206			
18:00-19:00	NANOPHOTONICS AULA:A5205	QUANTUM INFORMATION THEORY-AULA:A5205	NANOPHOTONICS AULA:A5205	PHOTONICS SYST. IN TELECOM AULA:A5205	IMAGE PROC. IN BIOPHOT-AULA:A5205
19:00-20:00					

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

BLOCK 3 (Campus Nord of UPC) 16/02/2015 to 19/04/2015

EXAMS: 7/04 to 10/04/2015

	MONDAY(6/04)	TUESDAY(7/04)	WEDNESDAY(8/04)	THURSDAY(9/04)	FRIDAY(10/04)
14:00-15:00		ULTRAFAST & ULTRAINTENSE LASER LIGHT- AULA:A5205	MANAGING LIGHT WITH DEVICES AULA:A5205	IMAGE PROC. IN BIOPHOT -AULA:A5205	BUSINESS AND PATENTS IN PHOTONICS AULA:A5205
15:00-16:00					
16:00-17:00					
17:00-18:00		PHOTONICS SYST. IN TELECOM AULA:A5205	NANOPHOTONICS AULA:A5205	QUANTUM INF. THEORY AULA:A5205	MEASURING WITH LIGHT AULA:A5205
18:00-19:00					
19:00-20:00					

ACTIVITIES WEEK (14/04 to 16/04/2015)

	MONDAY(13/04)	TUESDAY(14/04)	WEDNESDAY(15/04)	THURSDAY(16/04)	FRIDAY(17/04)
14:00-15:00		MANAGING LIGHT WITH DEVICES & NANOPHOTONICS & PHOT. & BUISNESS	ULTRAFAST & ULTRAINT. LASER LIGHT & IMAGE PROCECESING & PHOTONICS SYST. IN TELECOM	QUANTUM INFORMATION & MEASURING WITH LIGHT	
15:00-16:00	LABORATORY 4st SESSION *[at several campus]*				LABORATORY 4st SESSION *[at several campus]*
16:00-17:00					
17:00-18:00					
18:00-19:00					
19:00-20:00					

(Time table for these activities should be coordinated)

• **Spring school: about Photonics Engeneering, Nanophotonics and Biophotonics**
Organized by the Europhotonics MSc. and Doctorate Programs (students of the Master in Photonics are also invited).

date and place will be anounced soon.

BLOCK 4 — 20/04/2015 to July or to September 2015

- **Master Thesis project**

BLOCK 4 is devoted mainly to the Master Thesis work
Final oral defense sessions will be organized in **July & September (before 10th September)**

GENERAL ASPECTS — MSc in PHOTONICS & EUROPHOTONICS (2013/2014)

LABORATORY:
- SESSION 1: October 7th & 10th, 2014
- SESSION 2: December 1th & 5th, 2015
- SESSION 3: February 9th & 13th, 2015
- SESSION 4: April13th & 17th, 2015
- Recovery: April 20th & 24th, 2015

SEMINARS:

During the first 3 teaching blocks, 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, always when possible. They are part of the Master program and the assistance is compulsory.

EVALUATION PROCEDURE

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.