MASTER IN PHOTONICS

https://photonics.masters.upc.edu/en/academic-year-2024-25

MASTER EUROPHOTONICS

https://www.europhotonics.org/wordpress

TIMETABLE
ACADEMIC YEAR 2024-2025

Last update: 7 May 2024

UNIVERSITAT POLITÈCNICA DE CATALUNYA

UAB Universitat Autònoma de Barcelona

UNIVERSITAT DE BARCELONA

ICFO Institut de Ciències Fotòniques

Queda especificar Carla Camp

Calendar. Academic Year 2024-2025

September '24

M	Tu	W	Th	F	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 '24

M	Tu	W	Th	F	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 '24

M	Tu	W	Th	F	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 '24

M	Tu	W	Th	F	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 '25

M	Tu	W	Th	F	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 '25

M	Tu	W	Th	F	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 '25

M	Tu	W	Th	F	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 '25

M	Tu	W	Th	F	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 '25

M	Tu	W	Th	F	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 '25

M	Tu	W	Th	F	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 '25

M	Tu	W	Th	F	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 '25

M	Tu	W	Th	F	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 '25

M	Tu	W	Th	F	Sa	Su
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
19	20	21	22	23	24	25
26	27	28	29	30		

Block	Teaching Period
B1A	12 Sept - 11 Oct
B1B	14 Oct - 9 Dec
B2	10 Dec - 14 Feb
B3	17 Feb - 11 Apr
MSc Thes	22 April-…

Lab Days
Exams
Activity Days
Without activity

Important dates and information

REGISTRATION:
Master in Photonics: September 7th 2024
COURSE STARTS:
Master in Photonics: 12th September 2024 / Europhotonics: 09th October 2024
WELCOME SESSION: 12th September 2024 at 11h30, Physics building, Autonomous University of Barcelona

SPRING SCHOOL by Erasmus Mundus Europhotonics Master
Tentative date: March 26th-29th 2025
(Master in Photonics students are also invited)

TEACHING BLOCKS
Lectures are grouped into three teaching blocks plus a fourth block allocated for the Master Thesis
Block 1A: From 12th Sep to 11th Oct **(only MSc. in Photonics)**. **Location:** Autonomous University of Barcelona, Bellaterra, Barcelona
Block 1B: From 14th Oct to 09th Dec. **Location:** Autonomous University of Barcelona, Bellaterra, Barcelona
Block 2: From 10th Dec to 14th Feb. **Location:** UPC Campus Nord, Barcelona
Block 3: From 17th Feb to 11th Apr. **Location:** UPC Campus Nord, Barcelona
Block 4: From 22nd Apr until July or September. **Location:** Master Thesis advisor's institution

Christmas holidays: From 21st Dec 2024 to 07th Jan 2025
Easter holidays: From 12th April to 21st April 2025

Block 1A: Universitat Autònoma de Barcelona

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
10:00 - 11:00			SEMINARS Room N/A		
11:00 - 12:00					
12:00 - 13:00					
13:00 - 14:00					
14:00 - 15:00		INTRODUCTION TO PHOTONICS Room N/A Code 230550	INTRODUCTION TO PHOTONICS Room N/A Code 230550	INTRODUCTION TO PHOTONICS Room N/A Code 230550	
15:00 - 16:00					
16:00 - 17:00		BEAM PROPAGATION AND FOURIER OPTICS Room N/A Code 230553	BEAM PROPAGATION AND FOURIER OPTICS Room N/A Code 230553	BEAM PROPAGATION AND FOURIER OPTICS Room N/A Code 230553	
17:00 - 18:00					

Block 1A: Laboratory

	MONDAY 07 OCTOBER				FRIDAY 11 OCTOBER
15:00 - 19:00	LABORATORY SESSION 1 (UPC / UAB / UB)				LABORATORY SESSION 1 (UPC / UAB / UB)

Notes: Lecture rooms according to table.

Block 1B: Universitat Autònoma de Barcelona

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
10:00 - 11:00			SEMINARS Room N/A		
11:00 - 12:00					
12:00 - 13:00					
13:00 - 14:00					
14:00 - 15:00	PHOTONICS MATERIALS AND METAMATERIALS Room N/A Code 230562	QUANTUM OPTICS Room N/A Code 230555 / ACTIVE & SPECTRAL IMAGING Room N/A Code 230581	INTRODUCTION TO PHOTONICS Room N/A Code 230550	INTRODUCTION TO PHOTONICS Room N/A Code 230550	QUANTUM OPTICS Room N/A Code 230555 / ACTIVE & SPECTRAL IMAGING Room N/A Code 230581
15:00 - 16:00					
16:00 - 17:00	FIBERS & TELECOM Room N/A Code 230566 / OPTOELECTRONICS & PHOTOVOLTAIC TECHNOLOGY Room N/A,Code 230569	FROM COOLING & TRAPPING OF NEUTRAL ATOMS TO BEC Room N/A Code 230579 / MEASURING WITH LIGHT Room N/A Code 230573	BEAM PROPAGATION AND FOURIER OPTICS Room N/A Code 230553	BEAM PROPAGATION AND FOURIER OPTICS Room N/A Code 230553	FROM COOLING & TRAPPING OF NEUTRAL ATOMS TO BEC Room N/A Code 230579 / MEASURING WITH LIGHT Room N/A Code 230573
17:00 - 18:00					
18:00 - 19:00		BEAM PROPAGATION AND FOURIER OPTICS Room N/A Code 230553		PHOTONICS MATERIALS AND METAMATERIALS Room N/A Code 230562	
19:00 - 20:00					

Notes: Courses that overlap in time (in red) cannot be chosen simultaneously: Fibers & Telecom/ Optoelectronics & Photovoltaic Technology, Quantum Optics/Active & Spectral Imaging, and From Cooling &Trapping/ Measuring with Light.

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

	MONDAY 25 NOVEMBER	TUESDAY 26 NOVEMBER	WEDNESDAY 27 NOVEMBER	THURSDAY 28 NOVEMBER	FRIDAY 29 NOVEMBER
14:00 - 17:00	FIBERS & TELECOM Room N/A OPTOELECTRONICS & PHOTOVOLTAIC TECHNOLOGY Room N/A	QUANTUM OPTICS Room N/A ACTIVE & SPECTRAL IMAGING Room N/A	INTRODUCTION TO PHOTONICS Room N/A	BEAM PROPAGATION AND FOURIER OPTICS Room N/A	FROM COOLING & TRAPPING OF NEUTRAL ATOMS TO BEC Room N/A MEASURING WITH LIGHT Room N/A
17:00 - 20:00	PHOTONICS MATERIALS AND METAMATERIALS Room N/A				

	MONDAY 2 / 9 DECEMBER	TUESDAY 3 DECEMBER	WEDNESDAY 4 DECEMBER	THURSDAY 5 DECEMBER	FRIDAY 06 DECEMBER
15:00 - 19:00	LABORATORY SESSION 2 (UPC / UAB / UB)	ACTIVITIES DAY 1	ACTIVITIES DAY 2	ACTIVITIES DAY 3	
15:00 - 19:00	LABORATORY SESSION 2 (UPC / UAB / UB)				

Notes: The exams for the courses in red (Fibers & Telecom/ Optoelectronics & Photovoltaic Technology, Quantum Optics/Active & Spectral Imaging, and From Cooling & Trapping/Measuring with Light) overlap in time.
During the Activities Days, several visits to research labs will be scheduled (including UPC, UAB, UB and ICFO).

Block 2: Universitat Politècnica de Catalunya (UPC), Campus Nord

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
10:00 - 11:00			SEMINARS Room N/A		
11:00 - 12:00					
12:00 - 13:00					
13:00 - 14:00					
14:00 - 15:00	VISUAL OPTICS & BIOPHOTONICS Room A4 205 Code 230582	NONLINEAR OPTICS Room A4 205 Code 230563	VISUAL OPTICS & BIOPHOTONICS Room A4 205 Code 230582	NONLINEAR OPTICS Room A4 205 Code 230563	LASER SYSTEMS AND APPLICATIONS Room A4 205 Code 230570
15:00 - 16:00	ADVANCED QUANTUM OPTICS Room A4 206 Code 230558		ADVANCED QUANTUM OPTICS Room A4 206 Code 230558		
16:00 - 17:00	BUSINESS AND PATENTS IN PHOTONICS Room A4 205 Code 230552	LASER SYSTEMS AND APPLICATIONS Room A4 205 Code 230570	IMAGE PROCESSING IN BIOPHOTONICS Room A4 205 Code 230561	BUSINESS AND PATENTS IN PHOTONICS Room A4 205 Code 230552	QUANTUM SIMULATORS Room A4 205 Code 230578
17:00 - 18:00					
18:00 - 19:00	QUANTUM SIMULATORS Room A4 205 Code 230578	INTEGRATED PHOTONICS Room A4 205 Code 2301116	QUANTUM LIGHT-MATTER INTERFACES Room A4 206 Code 230588	QUANTUM LIGHT-MATTER INTERFACES Room A4 206 Code 230588	INTEGRATED PHOTONICS Room A4 205 Code 230567
19:00 - 20:00					

Notes: Courses that overlap in time (in red) cannot be chosen simultaneously: Visual Optics & Biophotonics / Advanced Quantum Optics, and Image Processing in Biophotonics/Quantum light-matter interfaces.

Block 2: Exams, Labs and Activities

	MONDAY 03 FEBRUARY	TUESDAY 04 FEBRUARY	WEDNESDAY 05 FEBRUARY	THURSDAY 06 FEBRUARY	FRIDAY 07 FEBRUARY
14:00-17:00	VISUAL OPTICS & BIOPHOTONICS Room A4 205 ADV. QUANTUM OPTICS WITH APPLICATIONS Room A4 206	LASER SYSTEMS AND APPLICATIONS Room A4 205	IMAGE PROCESSING IN BIOPHOTHONICS Room A4 205	NONLINEAR OPTICS Room A4 205	QUANTUM SIMULATORS Room A4 205
17:00-20:00		INTEGRATED PHOTONICS Room A4 205	QUANTUM LIGHT-MATTER INTERFACES Room A4 205 Code 230588		

	MONDAY 10 FEBRUARY	TUESDAY 11 FEBRUARY	WEDNESDAY 12 FEBRUARY	THURSDAY 13 FEBRUARY	FRIDAY 14 FEBRUARY
15:00-19:00	LABORATORY SESSION 3 (UPC / UAB / UB)	ACTIVITIES DAY 4	ACTIVITIES DAY 5	ACTIVITIES DAY 6	LABORATORY SESSION 3 (UPC / UAB / UB)

Notes: The exams for the courses in red (Visual Optics & Biophotonics/Adv. Quantum Optics) overlap in time.
The specific timetable for the Activities Days will be coordinated by the corresponding professors.

Block 3: Universitat Politècnica de Catalunya (UPC), Campus Nord

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
10:00 - 11:00			SEMINARS Room N/A		
11:00 - 12:00					
12:00 - 13:00					
13:00 - 14:00					
14:00 - 15:00	MANAGING LIGHT WITH DEVICES Room A4 205 Code 230572	ULTRAFAST AND ULTRAINTENSE LIGHT Room A4 205 Code 230572	MANAGING LIGHT WITH DEVICES Room A4 205 Code 230572	ULTRAFAST AND ULTRAINTENSE LIGHT Room A4 205 Code 230572	EXPERIMENTAL OPTICAL TECHNIQUES I BIOLOGY (@ICFO) Code 230554
15:00 - 16:00	QUANTUM LIGHT-MATTER INTERFACES Room A4 206 Code 230588	OPTICAL DESIGN Room A4 206 Code 230587	QUANTUM LIGHT-MATTER INTERFACES Room A4 206 Code 230588	OPTICAL DESIGN Room A4 206 Code 230587	
16:00 - 17:00	BUSINESS AND PATENTS IN PHOTONICS Room A4 205 Code 230552	MACHINE LEARNING ON CLASSICAL AND QUANTUM DATA Room A4 205 Code 230584	BUSINESS AND PATENTS IN PHOTONICS Room A4 205 Code 230552	MACHINE LEARNING ON CLASSICAL AND QUANTUM DATA Room A4 205 Code 230584	SEMICONDUCTOR PHOTONICS Room A4 205 Code 2301116
17:00 - 18:00					
18:00 - 19:00	NANOPHOTONICS Room A4 205 Code 230564	3D LIGHT CONTROL FOR BIOLOGICAL APPLICATIONS Room A4 205 Code 2301115	NANOPHOTONICS Room A4 205 Code 230564	3D LIGHT CONTROL FOR BIOLOGICAL APPLICATIONS Room A4 20 Code 2301115	
19:00 - 20:00		QUBITS APPLICATIONS Room A4 206 Code 2301117		QUBITS APPLICATIONS Room A4 206 Code 2301117	

Notes: Courses that overlap in time (in red) cannot be chosen simultaneously: Managing Light with devices/Quantum light-matter interfaces, Ultrafast & Ultraintense Light/Optical Design, 3D Light Control for Biological Appl./Qubits applications and Experimental optical techniques in Biology/Semiconductor Photonics.

Block 3: Exams, Labs and Activities

	MONDAY 31 MARCH	**TUESDAY 01 APRIL**	**WEDNESDAY 02 APRIL**	**THURSDAY 03 APRIL**	**FRIDAY 04 APRIL**
14:00-17:00	MANAGING LIGHT WITH DEVICES Room A4 205 / QUANTUM LIGHT-MATTER INTERFACES Room A4 206	ULTRAFAST & ULTRAINTENSE LASER LIGHT Room A4 205 / OPTICAL DESIGN Room A4 206	BUSINESS AND PATENTS IN PHOTONICS Room A4 205	3D LIGHT CONTROL FOR BIOLOGICAL APPLICATIONS Room A4 205 / QUBITS APPLICATIONS Room A4 206	EXPERIMENTAL OPTICAL TECHNIQUES IN BIOLOGY (@ICFO) / SEMICONDUCTOR PHOTONICS Room A4 205 Code 2301116
17:00-20:00	NANOPHOTONICS Room A4 205	MACHINE LEARNING ON CLASSICAL AND QUANTUM DATA Room A4 205			
	MONDAY 7 APRIL	**TUESDAY 8 APRIL**	**WEDNESDAY 9 APRIL**	**THURSDAY 10 APRIL**	**FRIDAY 11 APRIL**
15:00-19:00	LABORATORY SESSION 4 (UPC / UAB / UB)	ACTIVITIES DAY 7	ACTIVITIES DAY 8	ACTIVITIES DAY 9	LABORATORY SESSION 4 (UPC / UAB / UB)

Notes: The exams for the courses in red (Managing light with devices/Quantum light-matter interfaces, Ultrafast & Ultraintense Light/Optical Design, 3D Light Control for Biological Applications/Qubits Applications and Experimental optical techniques in Biology/Semiconductor Photonics) overlap in time.
The specific timetable for the Activities Days will be coordinated by the corresponding professors.

Block 4: Master Thesis (22 April to 10 September 2025)

BLOCK 4 is devoted to the Master Thesis work.
The presentations will be scheduled in 2 sessions in **July and September 2025.**

Notes

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

EXAMS AND EVALUATION PROCEDURE:
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's week schedule.

OTHER POSSIBLE CIRCUMSTANCES:
Under unexpected circumstances, lectures may be cancelled. In this case, re-schedule will be carried out provided that both students and professors agree.
All courses will be taught in-classroom.