















## Important dates



### **REGISTRATION:**

11th - 15th of September 2023

### **COURSE STARTS:**

12th September 2023

#### **ENTREPRENEURSHIP WEEK**

TBA ~ Feb 2024

### **QUANTUM CAREER SYMPOSIUM**

TBA ~ Apr 2024

### **INAUGURATION / GRADUATION**

Sep 8th, 5pm, University of Barcelona

### **MASTER THESIS SELECTION**

Dec 1st 2023-Jan 31st 2024

### **INTERNSHIP & DIRECTED RESEARCH PROJECTS**

From Oct 9th 2023

### **TEACHING BLOCKS:**

BLOCK 1: Sep 12th-Oct 6th: Quantum Core Subjects (Mandatory)

BLOCK 2: Oct 9th-Nov 10th: Quantum Core Subjects + Electives 1

BLOCK 3: Nov 13th-Nov 24th Electives 1

BLOCK 4: Dec 11th-Dec 22rd and Jan 8th-Feb 2nd Electives 2

BLOCK 5: TBA Entrepreneurship & Innovation

BLOCK 6: Feb 12th-Mid July: Master Thesis

#### **HOLIDAYS:**

Oct 12th-13th, Nov 1st, Dec 6th-8th 2023

Christmas: Dec 24rd-Jan 7th, 2024

Easter: Mar 29th-Apr 1st, 2024

### **CALENDAR LINK:**

https://calendar.google.com/calendar/u/1?cid =cXVhbnR1bW1hc3RlckBmcWEudWIuZWR

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# Calendar. Academic year 2022-2023



September	October	November	December
<ul><li>Master starts 12th</li><li>Quantum Core</li></ul>	<ul><li>Quantum Core</li><li>Electives 1</li></ul>	<ul><li>Exams Quantum Core</li><li>Electives 1</li></ul>	- Electives 2
January	February	March	April
- Electives 2	<ul><li>Electives 2</li><li>Exams electives</li><li>Master Thesis</li></ul>	- Master Thesis	<ul> <li>Master Thesis</li> <li>Entrepreneurship &amp; <ul> <li>Innovation</li> <li>Annual Career</li> <li>Symposium</li> <li>Reevaluation</li> </ul> </li> </ul>
May	June	July	August / September
- Master Thesis	- Master Thesis	- Master Thesis defense	Well deserved Holidays + Reevaluation Master Thesis

## BLOCK 1: SEP 12TH - OCT 6TH, FACULTAT DE FISICA, UB



#### Calendar LINK:

https://calendar.google.com/calendar/u/2?cid=cXVhbnR1bW1hc3RlckBmcWEudWluZWR1

## Mandatory Quantum Core subjects

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
08:00-09:00	QUANTUM INFORMATION		QUANTUM INFORMATION		QUANTUM INFORMATION
09:00-10:00	THEORY (N06M)		THEORY (N06M)		THEORY (N06M)
10:00-11:00		ADVANCED		ADVANCED	ADVANCED
11:00-12:00		QUANTUM MECHANICS (FA24M)		QUANTUM MECHANICS (FA24M)	QUANTUM MECHANICS (FA33M)
12:00-13:00	CONDENSED		CONDENSED	CONDENSED	
13:00-14:00	MATTER (FA11G)		MATTER (FA11G)	MATTER (FA25M)	















# BLOCK 2: OCT 9TH - NOV 10TH, FACULTAT DE FISICA, UB



	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
08:00-09:00	QUANTUM INFORMATION		QUANTUM INFORMATION		QUANTUM INFORMATION
09:00-10:00	THEORY		THEORY		THEORY
10:00-11:00		ADVANCED		ADVANCED	ADVANCED
11:00-12:00		QUANTUM MECHANICS		QUANTUM MECHANICS	QUANTUM MECHANICS
12:00-13:00	CONDENSED MATTER		CONDENSED MATTER	CONDENSED MATTER	
13:00-14:00	MATTER		MATTER	MALIEK	
14:00-15:00		QUANTUM OPTICS (A23M)	MONTECARLO METHODS (A02I)	MONTECARLO METHODS (A02I)	QUANTUM OPTICS (A23M)
15:00-16:00		(AZSIVI)	,	,	(AZSIVI)
16:00-17:00	QUANTUM STATISTICAL	FROM COOLING AND TRAPPING	QUANTUM STATISTICAL		FROM COOLING AND TRAPPING
17:00-18:00	INFERENCE (A44M)	(A23M)	INFERENCE (A44M)		(A23M)
18:00-19:00	SOLID STATE SIMULATION TECH	QUANTUM FIELD THEORY (A44M)	SOLID STATE SIMULATION TECH	QUANTUM FIELD THEORY (A44M)	
19:00-20:00	(A44M)	THEORY (A44IVI)	(A44M)	THEORY (A44IVI)	















# BLOCK 3: NOV 13TH - 24TH, FACULTAT DE FISICA, UB



	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
09:30-10:30	ELECTRONICS FOR				ELECTRONICS FOR
10:30-11:30	THE QTECH LAB (N13L)				THE QTECH LAB (N13L)
11:30-12:30					
12:30-13:00					
13:00-14:00					
14:00-15:00		QUANTUM OPTICS (A23M)	MONTECARLO METHODS (A02I)	MONTECARLO METHODS (A02I)	QUANTUM OPTICS (A23M)
15:00-16:00		(AZSIVI)	, , , , , , , , , , , , , , , , , , , ,	, , , , , , , , , , , , , , , , , , , ,	(AZSIVI)
16:00-17:00	QUANTUM STATISTICAL	FROM COOLING AND TRAPPING	QUANTUM STATISTICAL		FROM COOLING AND TRAPPING
17:00-18:00	INFERENCE (A44M)	(A23M)	INFERENCE (A44M)		(A23M)
18:00-19:00	SIMULATION TECH	QUANTUM FIELD	SOLID STATE SIMULATION TECH	QUANTUM FIELD THEORY (A44M)	
19:00-20:00		THEORY (A44M)	(A44M)	THEORY (A44IVI)	















# CORE EXAMS+LABS: NOV 27TH - DEC 4TH, FACULTAT DE FISICA, UB



	MONDAY, NOV 27TH	TUESDAY, NOV 28TH	WEDNESDAY, NOVE 29TH	THURSDAY, NOV 30TH	MONDAY DEC 4TH
09:30-10:30	ELECTRONICS FOR THE	EXAM ADV QUANTUM	ELECTRONICS FOR THE QTECH	EXAM QUANTUM INFORMATION	EXAM CONDENSED
10:30-11:30	QTECH LAB (N13L)	MECHANICS	LAB (N13L)	THEORY	MATTER
11:30-12:30					
12:30-13:00					
13:00-14:00					















# BLOCK 4: DEC 11TH - FEB 2TH, FACULTAT DE FISICA, UB





	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
09:00-10:00	QTECH SUPERCONDUCTING	QUANTUM MATERIALS (FA27P)	QTECH SUPERCONDUCTING	QUANTUM MATERIALS (FA27P)	ELECTRONICS FOR THE QTECH LAB
10:00-11:00	CIRCUITS (FA27P)	, ,	CIRCUITS (FA27P)		N11L (from 9:30 to 11:30)
11:00-12:00	ADVANCED QUANTUM INFORMATION	QUANTUM SENSING (FA27P)	ADVANCED QUANTUM INFORMATION	QUANTUM SENSING (FA27P)	
12:00-13:00					
13:00-14:00					
14:00-15:00	ADV QUANTUM OPTICS (QUANTOP)	QUANTUM COMMUNICATIONS	ADV QUANTUM OPTICS (QUANTOP)	QUANTUM COMMUNICATIONS	TENSOR NETWORKS (A44M)
15:00-16:00	31 1163 (Q3/11(161)	(FA43M)	G1 1165 (Q 67 11 17 161 7	(FA43M)	(VIIII)
16:00-17:00	QUANTUM COMPUTING (A43M)	ELECTRONICS FOR	TENSOR NETWORKS (A44M)	QUANTUM COMPUTING (A43M)	QUANTUM SIMULATORS
17:00-18:00	Com Cinta (Cion)	THE QTECH LAB	(VVIII)		(QUANTOP)
18:00-19:00	QUANTUM SIMULATORS	MACHINE LEARNING (A03I)		MACHINE LEARNING (A03I)	
19:00-20:00	(QUANTOP)	(*.557)		(*.557)	















# BLOCK 5: ENTREPRENEURSHIP AND INNOVATION (TBC)



	Feb 15th (StartUB F. Economia)	March 13th (ICFO)	April 19th (StartUB F. Economia)	May 16th (StartUB F. Economia)	June 13th (StartUB F. Economia)	July 3th (ICFO)
10:00-13:00	Fundamentals of Innovation (Cirera)	Fundamentals of IP (Cunningham)	Entrepreneurs hip (Cirera)	Entrepreneurs hip (Cirera)	Sustainable business models (Cirera)	Elevator Pitch (evaluation)
14:00-18:00	Entrepreneurs hip and Innovation	Entrepreneurs hip and Innovation	Entrepreneurs hip and Innovation	Entrepreneurs hip and Innovation	Entrepreneurs hip and Innovation	















## **EXAMS AND EVALUATIONS**



**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 exams week schedule.

### **EXAMS MANDATORY SUBJECTS (QUANTUM CORE)**

ADVANCED QUANTUM MECHANICS Nov 28th CONDENSED MATTER Dec 4th QUANTUM INFORMATION THEORY Nov 30th

## **EXAMS ELECTIVE SUBJECTS (WHEN NEEDED)**

ELECTIVES: Feb 5th-Feb9th 2024

#### **REEVALUATION EXAMS**

Apr 8th-Apr12th 2024

#### **MASTER THESIS DEFENSE**

Jul 15, 16, and 17 2024

#### MASTER THESIS REEVALUATION

Sep 2nd-Sep3th 2024















## VISIT TO PARTICIPATING INSTITUTIONS



All students are welcome to participate in visits to the participating institutions to get a first hand knowledge of the research groups and facilities of each institution.

UAB	Sep 19 th, 3pm-7pm
UB	Sep 20st, 3pm-7pm
BSC+UPC	Sep 21st, 3pm-7pm
ICFO	Sep 22nd, 3pm-7pm
ICN2+IFAE	Sep 26th, 3pm-7pm















## OTHER IMPORTANT INFO



**SEMINARS (EXTRACURRICULAR):** A 3 hours/week slot is reserved for seminars. These seminars will be announced few weeks in advance and there will be held in Facultat de Fisica (UB), when possible. They are part of the Master program and the assistance is compulsory.

**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.















## Extracurricular activities 2022-2023



Certificates of attendance will be awarded We expect ALL students to participate in these activities, please register in the link Fill free to send us suggestions <a href="mailto:master.quantum.bcn@ub.edu">master.quantum.bcn@ub.edu</a>

Date	Seminar	Speaker	Company	Registration













