



**2<sup>nd</sup> year EMM Nano+ welcome session 2023**  
**Monday 4<sup>th</sup> of September 2023, 9.45am, amphi Sud**

# 2<sup>nd</sup> year EMM Nano Master 2 program

Erasmus Mundus Nanoscience and Nanotechnology (120 stp)									
<b>Nanoscience and nanotechnology fundamentals (0-12 ects, KULeuven)</b> Quantum Physics – 3 ects Quantum Physics II – 3 ects Semiconductor Physics – 3 ects Semiconductor devices – 4 ects Atom theory, chemical periodicity and chemical bond – 3 ects Structure synthesis and cellular function of macromolecules – 3 ects Electronic components, circuits and sensors – 3 ects Basics of pharmacology – 3 ects									
<b>General interest courses (6-9 ects, KULeuven)</b> Courses chosen from extensive list of general interest courses									
<b>Core courses (36 ects, KULeuven)</b> Material physics and technology for nanoelectronics – 6 ects Nanostructured biomacromolecules – 6 ects Chemistry at the nanoscale – 6 ects Technology of integrated systems – 6 ects Mesoscopic physics – 3 ects Lectures on nanoscience and nanotechnology – 3 ects Practical design for nanotechnology or project work nanoscience – 6 ects									
Nanomaterials, nanochemistry & nanophysics			Quantum computing and nanoelectronics				Bionanotechnology and Nanomedicine		
Option Modeling and Analysis at the Nanoscale U Barcelona	Option Nanochemistry UGA Grenoble	Option Nanophysics Chalmers	Option Organic and Molecular electronics TU Dresden, Chalmers	Option Quantum computing Chalmers	Option Quantum engineering UGA Grenoble	Option Nanoelectronics TU Dresden	Option Biophysics TU Dresden	Option Bionanotechnology UGA Grenoble	Option Nanomedicine and Nanotheranostics U Barcelona
Specific Courses 15 ects compulsory +min 6 ects electives KULeuven	Specific Courses 15 ects compulsory +min 6 ects electives KULeuven	Specific Courses 15 ects compulsory +min 6 ects electives KULeuven	Specific Courses 15 ects compulsory +min 6 ects electives KULeuven	Specific Courses 15 ects compulsory +min 6 ects electives KULeuven	Specific Courses 15 ects compulsory +min 6 ects electives KULeuven	Specific Courses 15 ects compulsory +min 6 ects electives KULeuven	Specific Courses 15 ects compulsory +min 6 ects electives KULeuven	Specific Courses 15 ects compulsory +min 6 ects electives KULeuven	Specific Courses 15 ects compulsory +min 6 ects electives KULeuven
Broadening courses 15 ects electives	Broadening courses 15 ects electives	Broadening courses 15 ects electives	Broadening courses 15 ects electives	Broadening courses 15 ects electives	Broadening courses 15 ects electives	Broadening courses 15 ects electives	Broadening courses 15 ects electives	Broadening courses 15 ects electives	Broadening courses 15 ects electives
Master thesis 30 ects	Master thesis 30 ects	Master thesis 30 ects	Master thesis 30 ects	Master thesis 30 ects	Master thesis 30 ects	Master thesis 30 ects	Master thesis 30 ects	Master thesis 30 ects	Master thesis 30 ects

# 2<sup>nd</sup> year EMM Nano : your contacts@UGA

- UGA secretary: Mrs Delphine Curinier

PHITEM building A, room A108

[phitem-master-nano@univ-grenoble-alpes.fr](mailto:phitem-master-nano@univ-grenoble-alpes.fr)

Phone: +33 (0)4 76 04 10 32

- Local Coord. of Erasmus Mundus Nano@UGA  
Prof. David Ferrand

[david.ferrand@neel.cnrs.fr](mailto:david.ferrand@neel.cnrs.fr)

Mobile: +33 (0)670244579

Neel Institute, office C3-200 (see next slide)

**Please put me in copy of all email exchanges regarding EMM Nano Master program (exchange with Leuven, UGA teachers, secretary, local track coordinators...)**

**Web site:** EMM Nano+ web pages @UGA

<https://master-nanosciences.univ-grenoble-alpes.fr/academic-program/nanochemistry/emm-nano-/emm-nano--483724.kjsp?RH=3972980646879902>



**David Ferrand: Neel Institute office C3-200 located first floor between D and F buildings**



Tram line B (green one) towards « Oxford »  
Tram Stop terminus « Oxford »

**An entrance pass done in advanced  
and ID card are always needed !**

## Information sessions for international students done by ISSO

- To prepare the arrival of all international students, information sessions (online or in the campus) will be proposed by International students and scholars office (ISSO):

<https://international.univ-grenoble-alpes.fr/news/calendar/orientation-events-for-international-students-grenoble-707836.kjsp?RH=1602248890125>

I invite you also to visit now new ISSO building & web page:

<https://international.univ-grenoble-alpes.fr/getting-organized/service-centers-on-campus/international-students-scholars-office/international-students-scholars-office-isso--903075.kjsp?RH=1602595314069>

- Social events for international students in September:**

See <https://international.univ-grenoble-alpes.fr/news/calendar/orientation-events-for-international-students-grenoble-707836.kjsp?RH=1610028031494&RF=1610028031494>

- Follow cultural activities @UGA for international students during the year**  
<https://en.integre-grenoble.org/>



**Visit of UGA campus with  
Erasmus student done by Science faculty:  
Thursday 07<sup>th</sup> of September 5pm in front of  
Phitem building.**

## EMM students: health issues and medical insurance

❑ **Visit to a General practionner:** See ISSO web page: (daily life item)

<https://international.univ-grenoble-alpes.fr/getting-organized/daily-life/health/health-784068.kjsp>

❑ **University health centers in Grenoble:**

### On-campus healthcare center

MUSE 80 allée Ampère

Domaine universitaire 38400 Saint Martin d'Hères, Tram B « G. Fauré ».

+33 (0)4 76 82 82 38 between 8 am and 12 pm

(except on Tuesdays, 10 am to 12 pm)

### City center healthcare center

Consultations with general practitioners only

10, rue Vassieux en Vercors

38000 Grenoble

Tél. 04 76 82 40 70 open Monday and thursday (8am 5pm), Tuesday (1.30pm-5pm)

Tram B - « Marie-Louise Paris - CEA »

(see <https://centre-sante.univ-grenoble-alpes.fr/fr/menu-principal/horaires-plan-d-acces/>)

As EMM students you are covered in principle by an AIG health insurance taken in Leuven.

See the different items (payment and reimbursement for instance) and check any news about your coverage with KUL or/and with AIG.

# Make an appointment at the *Centre de santé*

To see a :

- General practitioner
- Gynecologist (except the first appointment)
- Sports medicine physician
- Psychologist
- Medical consultations concerning disabilities

You must make an appointment online at :  
<https://centredesante-uga.contactsante.fr>

- For requests concerning sports medical clearance certificates (*"certificats de non contre-indication à la pratique sportive"*, FFSU permit only)

Contact the *Centre de Santé* (Health Center)  
at: +33 (0)4 76 82 82 38 between 8 am and 12 pm  
(except on Tuesdays, 10 am to 12 pm)

## *To make an appointment with an English-speaking psychologist*

*Send an email to [centre-de-sante@univ-grenoble-alpes.fr](mailto:centre-de-sante@univ-grenoble-alpes.fr) for any request for support and the psychologist will contact you.*

If you have potential COVID-19 symptoms, don't make an appointment and check the COVID-19 Procedure for your next steps

### **If your test positive for Covid-19**

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- Since February 1<sup>st</sup> 2023, self-isolation is no longer required.
- It is still recommended to respect protective measures (social distancing, masks, etc.).
- Monitor your symptoms, and if you believe your condition requires a medical assessment, call your attending physician or the University Health Center 04-76-82-82-38 (Monday-Friday 8:00 am til 12:00 except Tuesdays).
- **If you have trouble breathing or persistent pain in the chest, call 15 to seek emergency medical attention.**
- It is important to warn people you meet within 48 hours before the first symptoms

### **Where and how can you get tested ?**

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In any of the testing centers <https://www.sante.fr/cf/centres-depistage-covid/departement-38-isere.html>

### **Where and how can you get vaccinated ?**

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In any of the vaccination centers <https://www.sante.fr/cf/centres-vaccination-covid/departement-38-isere.html>



- **Bionanotechnology:**

Hoàng Trường Giang, Miranda Vega Daniel Ricardo, Sahu Nikita,  
Vandekerckhove Catharina Illum, Bedregal Portugal Kristel Karim.

- **Quantum engineering:**

Vallejo Melgarejo Laura, Revilla Martin Alvaro, Veryser Bram.

- Check rapidly that UGA messages are not filtered by antispam at KUL or give us a second email adress.
- In principle your registration will be done via the secretary of the Master. Contact the secretary and collect your certificate of registration, your student card and agalan access login at the secretary of the Master.

## 2<sup>nd</sup> year EMM Nano 2023-2024 Master students

1	Hoàng	Trương Giang	truonggiang.hoang@student.kuleuven.be
2	Miranda Vega	Daniel Ricardo	danielricardo.mirandavega@student.kuleuven.be
3	Sahu	Nikita	nikita.sahu@student.kuleuven.be
4	Vandekerckhove	Catharina Illum	catharinaillum.vandekerckhove@student.kuleuven.be
	Bedregal		
5	Portugal	Kristel Karim	kristelkarim.bedregalportugal@student.kuleuven.be
	Vallejo		
6	Melgarejo	Laura	laura.vallejomelgarejo@student.kuleuven.be
7	Revilla Martin	Alvaro	alvaro.revillamartin@student.kuleuven.be
8	Veryser	Bram	bram.veryser@student.kuleuven.be



email addresses that I will use to  
communicate with you during  
the academic year + a copy to your new UGA email address  
[firstname.name@univ-grenoble-alpes.fr](mailto:firstname.name@univ-grenoble-alpes.fr)

At UGA you will be merged with local Master students within three Master 2 tracks of the « Mention » Nanoscience-Nanotechnology (N2)

### **M2 Quantum information & quantum engineering (QIQE) M2 Nanophysics**



Prof. Franck Balestro **M2 QIQE**  
[Franck.balestro@neel.cnrs.fr](mailto:Franck.balestro@neel.cnrs.fr)

**Info 10.45 am, Room A120**



Prof. Helène Bea **M2 Nanophysics**  
[Helene.bea@cea.fr](mailto:Helene.bea@cea.fr)

**Info 10.45 am, Room A003**

### **M2 Nanochemistry**



Prof. Jerome Chauvin  
[jerome.chauvin@univ-grenoble-alpes.fr](mailto:jerome.chauvin@univ-grenoble-alpes.fr)

**Information meeting  
10.45 am room A118**

### **M2 Nano-biotechnology**




Prof. Johannes Geiselmann  
[hans.geiselmann@univ-grenoble.fr](mailto:hans.geiselmann@univ-grenoble.fr)

**Information meeting  
10.45am room A106**

(please contact local track coordinators for any specific demands, put me in cc)

## 2<sup>nd</sup> year EMM Nano Master 2 program

- 1st Semester : **lectures** from september 2023 to end of January 2024.
- 2<sup>nd</sup> Semester : **30 ECTS Master internship**: 4 month minimum up to 6 month maximum done from February to end of August, evaluation at the end of june or end of August
- One Master 2 course: most often 3 ECTS ~ 20-25 hours during one semester sometimes 6 ECTS ~ 45 hours during one semester
- To be graduated, at least 120 ECTS in your ISP are needed over the two years !

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- Depending on the **credit number done in Leuven** (from 54 up to 66 ECTS credits)
- Choose the number of courses **during 1st semester** in order to complete your curriculum up to 120 ECTS credits: from 24 ECTS up to 36 ECTS
  - Choose only EMM Nano **courses listed in Leuven** (<http://www.emm-nano.org/> )
  - Be careful rules are a bit **different in the 3 UGA EMM-Nano + Master 2 tracks**



# Teaching schedule 2023-2024 at UGA

SEPTEMBRE 2023	OCTOBRE 2023	NOVEMBRE 2023	DECEMBRE 2023	JANVIER 2024	FEVRIER 2024	MARS 2024	AVRIL 2024	MAI 2024	JUIN 2024	JUILLET 2024
lundi 28-août	dimanche 1	mercredi 1 Toussaint	vendredi 1	lundi 1 Jour de l'an	jeudi 1	vendredi 1	lundi 1 Lundi de Pâques	mercredi 1 Fête travail	samedi 1	lundi 1
mardi 29-août	lundi 2	jeudi 2	samedi 2	mardi 2	vendredi 2	samedi 2	mardi 2	jeudi 2	dimanche 2	mardi 2
mercredi 30-août	mardi 3	vendredi 3	dimanche 3	mercredi 3	samedi 3	dimanche 3	mercredi 3	vendredi 3	lundi 3	mercredi 3
jeudi 31-août	mercredi 4	samedi 4	lundi 4	jeudi 4	dimanche 4	lundi 4	jeudi 4	samedi 4	mardi 4	jeudi 4
vendredi 1	jeudi 5	dimanche 5	mardi 5	vendredi 5	lundi 5	mardi 5	vendredi 5	dimanche 5	mercredi 5	vendredi 5
samedi 2	vendredi 6	lundi 6	mercredi 6	samedi 6	mardi 6	mercredi 6	samedi 6	lundi 6	jeudi 6	samedi 6
dimanche 3	samedi 7	mardi 7	jeudi 7	dimanche 7	mercredi 7	jeudi 7	dimanche 7	mardi 7	vendredi 7	dimanche 7
lundi 4	dimanche 8	mercredi 8	vendredi 8	lundi 8	jeudi 8	vendredi 8	lundi 8	mercredi 8 8 Vict 1945	samedi 8	lundi 8
mardi 5	lundi 9	jeudi 9	samedi 9	mardi 9	vendredi 9	samedi 9	mardi 9	jeudi 9 Ascension	dimanche 9	mardi 9
mercredi 6 Forum ETC	mardi 10	vendredi 10	dimanche 10	mercredi 10	samedi 10	dimanche 10	mercredi 10	vendredi 10	lundi 10	mercredi 10
jeudi 7	mercredi 11	samedi 11 Armistice	lundi 11	jeudi 11	dimanche 11	lundi 11	jeudi 11	samedi 11	mardi 11	jeudi 11
vendredi 8	jeudi 12	dimanche 12	mardi 12	vendredi 12	lundi 12	mardi 12	vendredi 12	dimanche 12	mercredi 12	vendredi 12
samedi 9	vendredi 13	lundi 13	mercredi 13	samedi 13	mardi 13	mercredi 13	samedi 13	lundi 13	jeudi 13	samedi 13
dimanche 10	samedi 14	mardi 14	jeudi 14	dimanche 14	mercredi 14	jeudi 14	dimanche 14	mardi 14	vendredi 14	dimanche 14 Fête nat.
lundi 11	dimanche 15	mercredi 15	vendredi 15	lundi 15	jeudi 15	vendredi 15	lundi 15	mercredi 15	samedi 15	lundi 15
mardi 12	lundi 16	jeudi 16	samedi 16	mardi 16	vendredi 16	samedi 16	mardi 16	jeudi 16	dimanche 16	mardi 16
mercredi 13	mardi 17	vendredi 17	dimanche 17	mercredi 17	samedi 17	dimanche 17	mercredi 17	vendredi 17	lundi 17	mercredi 17
jeudi 14	mercredi 18	samedi 18	lundi 18	jeudi 18	dimanche 18	lundi 18	jeudi 18	samedi 18	mardi 18	jeudi 18
vendredi 15	jeudi 19	dimanche 19	mardi 19	vendredi 19	lundi 19	mardi 19	vendredi 19	dimanche 19	mercredi 19	vendredi 19
samedi 16	vendredi 20	lundi 20	mercredi 20	samedi 20	mardi 20	mercredi 20	samedi 20	lundi 20 Lundi Pentecôte	jeudi 20	samedi 20
dimanche 17	samedi 21	mardi 21	jeudi 21	dimanche 21	mercredi 21	jeudi 21	dimanche 21	mardi 21	vendredi 21	dimanche 21
lundi 18	dimanche 22	mercredi 22	vendredi 22	lundi 22	jeudi 22 22 Forum PE	vendredi 22	lundi 22	mercredi 22	samedi 22	lundi 22
mardi 19	lundi 23	jeudi 23	samedi 23	mardi 23 JDL	vendredi 23	samedi 23	mardi 23	jeudi 23	dimanche 23	mardi 23
mercredi 20	mardi 24	vendredi 24	dimanche 24	mercredi 24	samedi 24	dimanche 24	mercredi 24	vendredi 24	lundi 24	mercredi 24
jeudi 21	mercredi 25	samedi 25	lundi 25 Noël	jeudi 25	dimanche 25	lundi 25	jeudi 25	samedi 25	mardi 25	jeudi 25
vendredi 22	jeudi 26	dimanche 26	mardi 26	vendredi 26	lundi 26	mardi 26	vendredi 26	dimanche 26	mercredi 26	vendredi 26
samedi 23	vendredi 27	lundi 27	mercredi 27	samedi 27	mardi 27	mercredi 27	samedi 27	lundi 27	jeudi 27	samedi 27
dimanche 24	samedi 28	mardi 28	jeudi 28	dimanche 28	mercredi 28	jeudi 28	dimanche 28	mardi 28	vendredi 28	dimanche 28
lundi 25	dimanche 29	mercredi 29	vendredi 29	lundi 29	jeudi 29	vendredi 29	lundi 29	mercredi 29	samedi 29	lundi 29
mardi 26	lundi 30	jeudi 30	samedi 30	mardi 30	mercredi 30	samedi 30	mardi 30	jeudi 30	dimanche 30	mardi 30
mercredi 27	mardi 31		dimanche 31	mercredi 31		dimanche 31 Pâques		vendredi 31		mercredi 31
jeudi 28										
vendredi 29										
samedi 30										

Student holidays (in brown and in red UGA closing) :

1 week at the beginning of November, 2 weeks for Christmas holidays

1 week in February (winter holydays), 1 week in April (spring holidays).

# Bionanotechnology 2<sup>nd</sup> year EMM Nano Master 2 program 2023-2024

- **1st Semester:** 5 compulsory specializing courses 15 ECTS
- + 15 ECTS broadening courses (more if you need more than 30 ECTS )

Mandatory courses: 15 ECTS			
	Regular course slots	Start date / End date	Location
Bio-molecular interactions: methods and applications	Tuesday 10.30am-12.30pm + extra Wednesday 8.15am-10.15am	Wednesday 20th of september / 24th of October	Phelma Minatec (see ADE minatec)
Biosensors and high through-put analysis	Friday 8.15am-10.15am or 10.30am-12.30pm + Tuesday 28/11 1.30pm-3.30pm	Tuesday 17th of November / 22th of December	Phelma Minatec Z building (start in Z202)
Micro-Nano Fabrication	Wednesday 1.30pm-3pm + extra 3.15pm-4.45pm	Wednesday 13th of september / 8th of November	Green-Er: Puech Amphitheater
Nano-safety	Thursday 1.30pm-3pm	Thursday 14th of September / 21th of December	Phitem: room A006
Surface Functionalisation	Tuesday 3.45pm-5.45pm	Tuesday 19th of September / 19th of December	Phelma Minatec Z building (start in Z302)
Recommended elective courses			
Neuroscience	Thursday 8.15am-10.15am & Tuesday 8.15am-10.15am + 08/12 8.15am-10.15am	Thursday 5th of october / 19th of december	Phelma Minatec Z404
Physiology	Tuesday 1.30pm-3.30pm + 07/12 10.30am-12.30pm	Tuesday 19th of september / 7th of december	Phelma Minatec M256
Optics for biological systems	Thursday 3.15pm-4.45pm	Thursday 21th of September / 22nd december	Phitem A006
Biomaterials and bio-compatible surfaces engineering	25/09 10.30-12.30 + Thursday 8.15am-10.15am or 10.30am-12.30pm + 8/12 10.15am-12.15pm + 15/12 8.15am-10.15am	Thursday 25th of september / 21th of December	Phelma Minatec Z203 (1st) and then Z208
Cell signaling and cancer biology	Tuesday 8.15am-10.15am (except 03/10)	Tuesday 26th of September / 24th of october	Phelma Minatec M254
Fundamental of structural biology	Monday 1.30pm-3pm	Monday 25th of September / 8th of January	Phitem D112
Machine statistical learning	19/09 (8.15m-10.15pm), 25/09 (8am-10am), 27/09 (3.45pm-5.45pm), 27/10 (10.30am-12.30am), 14/11 (10.30am-12.30pm), 21/11 (10.30am-12.30pm), 14/12 (8.15am-10.15am), 22/12 (8.15am-10.15pm)	Monday 19th of September / 22th of december	Phelma Minatec M building (informatic room) M252/M253/M159/M160
Molecular markers for medical imaging	Thursday 8.15am-10.15am	Thursday 9th of November / Thursday 14th of December	Phelma Minatec Z building (start in Z420) see ADE
Nanopores and membrane technologies	Monday 5pm-6.30pm	Monday 11th of September / 8th of January	Phitem: room A120
Characterization of biomolecular interactions at surfaces	Monday 3.15pm-4.45pm	Monday 25th of September / 18th of December	Phitem: room D112
Research Training	See EMM Nano track coordinator	See EMM Nano track coordinator	Research in Laboratories

**In green** courses which start **WEEK OF SEPTEMBER 11TH**  
(all Toledo elective courses are listed in the next page)

[Online timetable ADE UGA](#) (choose M2 Bionanotechnology)

(click on the link above for september or use your Leo portal with agalan login)

[Online timetable ADE Grenoble INP](#) (choose Phelma/3a/3a\_phelma\_biomed\_nanobio)

(free access)

# Bionanotechnology 2<sup>nd</sup> year EMM Nano 2022-2023: Elective courses from QNS & Nanochemistry tracks



Free choice among the full list but check timetable compatibility

Elective courses from Quantum &nanoscale & Nanochemistry tracks				
	Regular course slots	Start date / End date	Location	Eventual extra course slots or practicals
<del>PI-conjugated and Conducting Polymers</del>	<del>Monday 8:30am-12pm</del>	<del>Monday 11th of September / 11th of December</del>	<del>UFR Nanochemistry room 206B</del>	
Nanocomposites	Tuesday 8am-10am	Tuesday 19th of September / 5th of December	Phitem: room A120	
Advanced Functional Nanomaterials	Wednesday 8am-10am (8 slots + practicals)	Wednesday 13th of September / 15th of November	Phitem: room D111	8h of practicals
Functional Nanoparticles	Wednesday 10:15am-12:15am (12 slots)	Wednesday 13th of September / 6th of December	Phitem: room A119	
<del>Molecular nanomaterials: C-Train</del>	<del>Tuesday 10:15am-12:15am (11 slots)</del>	<del>Tuesday 19th of September / 5th of December</del>	<del>Phitem A120</del>	<del>4h of practicals</del>
<del>Molecular nanomaterials: J. Chauvin</del>	<del>Thursday 3:15pm-5:15pm</del>	<del>Thursday 14th of September / 7th of December</del>	<del>Phitem: A106 and other rooms at Phitem (see ADE)</del>	
Nanomaterials and energy	Thursday 10:15am-12:15am (12 slots)	Thursday 21th of September / 21th of December	Phelma Minatoc (to be fixed)	
Advanced characterization techniques for nanostructures	Monday 3:15pm-4:45pm + Friday 15/09 and 22/09 1.30pm-3.30pm	Monday 11th of September / 18th of December	Phitem: room A120	Friday 15/09 and 22/09 1.30pm-3.30pm
Advanced semiconductor devices	Monday 1:30pm-3pm (8 slots)	Monday 18th of September / 18th of December	Phitem: room A120	
Elaboration of nanostructures / Physics of 2D materials	Thursday 8am-9:30am (14 slots)	Thursday 14th of September / 21th of December	Green-Er: room 2D-006 and others 2D-xxx (see ADE)	
Microwaves and cryoelectronics	Monday 3:45pm-5:45pm (12 slots)	Monday 11th of September / 18th of December	Green-Er: room 2D-009	
<del>Nanomagnetism and spintronics</del>	<del>Thursday 1:30pm-3pm (13 slots)</del>	<del>Thursday 14th of September / 21th of December</del>	<del>Green-Er: room 2D-006</del>	
Quantum condensed matter	Tuesday 10:30am-12:30am (12/13 slots)	Tuesday 19th of September / 19th of December	Green-Er: room 2D-014	
<del>Solid State Qbits</del>	<del>Thursday 3:15pm-5:15pm (12 slots)</del>	<del>Thursday 14th of September / 21th of December</del>	<del>Green-Er: 2D-006</del>	
<del>Thematic and interdisciplinary projects: IBM Q-practicals</del>	<del>Tuesday 3:30pm-5:30pm</del>	<del>See on ADE and with the teacher</del>	<del>to be fixed</del>	
<del>Thematic and interdisciplinary projects: Modeling</del>	<del>Friday 8am-10am (12 slots)</del>	<del>Friday 15th of September / 22nd of December</del>	<del>Phitem: room D208 or D209 (informatic room)</del>	
<del>Thematic and interdisciplinary projects: seminars</del>	<del>Tuesday 1:30pm-3:30pm</del>	<del>Tuesday 12th of September / 19th of December</del>	<del>Green-Er: 2D-014</del>	
Nanophotonics-Plasmonics	Wednesday 10:15am-12:15am (12 slots)	Wednesday 13th of September / 20th of December	Green-Er: room 2D-011b	
Open quantum systems	Wednesday 8am-10am (12 slots)	Wednesday 13th of September / 13th of December	Phitem: room A119	
<del>Quantum algorithms</del>	<del>Monday 10:30am-12:30am (12 slots)</del>	<del>Monday 11th of September / 18th of December</del>	<del>Green-Er: room 2D-009</del>	
Quantum optics	Tuesday 8am-10am (12 slots)	Tuesday 19th of September / 19th of December	Green-Er: room 2D-010	
<del>Microfluidics</del>	<del>not available</del>			
Active Matter	Friday 10:30am-12:30pm	Friday 15th of September / 22th of December	Phitem: room A120 and other rooms at Phitem (see ADE)	

In red elective courses in conflict with a mandatory course

(In green courses that start WEEK OF SEPTEMBER 11TH)

[Online timetable ADE UGA](#) (choose one of EMM Nano tracks)

(click on the link above for september or use your Leo portal with agalan login)

[Online timetable ADE Grenoble INP](#) (choose Phelma/3a/3a\_phelma\_biomed\_nanobio)

(free access)

# Quantum engineering 2<sup>nd</sup> year EMM Nano Master 2 program 2023-2024

- **1st Semester:** 4 compulsory specializing courses 15 ECTS  
+ 15 ECTS broadening courses (more if you need more than 30 ECTS )

Mandatory courses	Regular course slots	Start date / End date	Location
From Nanofabrication in research labs to VLSI	Wednesday 1.30pm-3pm + extra 3.30pm-5pm	Wednesday 12th of September / 18th of december	Part I Green-Er amphi Puech (8 slots); Part II Green-Er 2D-009 (Maud Vinet 8 slots)
Quantum condensed matter	Tuesday 10.30am-12.30am (12/13 slots)	Tuesday 19th of september / 19th of december	Green-Er: room 2D-014
Solid State Qbits	Thursday 3.15pm-5.15pm (12 slots)	Thursday 14th of september / 21th of december	Green-Er: 2D-006
Thematic and interdisciplinary projects: IBM-Q.practicals	Wednesday 3.45pm-5.45pm	Wednesday 3rd of October / 12th of december	to be fixed, see with Benoit Vermersch (teacher of Quantum algorithms)
or Thematic and interdisciplinary projects: Modeling (choose one)	Friday 8am-10am (12 slots)	Friday 15th of September / 22nd of december	Phitem: room D208 or D209 (informatic room)
Thematic and interdisciplinary projects: seminars (mandatory)	Tuesday 1.30pm-3.30pm	Tuesday 12th of September / 19th of december	Green-Er:2D-014
Recommended elective courses			
Advanced characterization techniques for nanostructures	Monday 3.15pm-4.45pm + Friday 15/09 and 22/09 1.30pm-3.30pm	Monday 11th of September / 18th of december	Phitem: room A120
Advanced semiconductor devices	Monday 1.30pm-3pm (8 slots)	Monday 18th of September / 18th of December	Phitem: room A120
Advanced semiconductor devices:practicals	Tuesday 09/01, Wednesday 10/01, Thursday 11/01	First week of January	CIME-Nanotech&Neel Institute
Elaboration of nanostructures / Physics of 2D materials	Thursday 8am-9.30am (14 slots)	Thursday 14th of September / 21th of december	Green-Er: room 2D-006 and others 2D-xxx (see ADE)
Microwaves and cryoelectronics	Monday 3.45pm-5.45pm (12 slots)	Monday 11th of September / 18th of december	Green-Er: room 2D-009
Nanomagnetism and spintronics	Thursday 1.30pm-3pm (13 slots) + Monday 04/12 and 11/12 8am-9.30am	Thursday 14th of September / 21th of december	Green-Er: room 2D-006
Nanomaterials and energy	Thursday 10.15am-12.15am (12 slots)	Thursday 21th of September / 21th of december	Phelma Minatec (to be fixed)
Nanophotonics-Plasmonics	Wednesday 10.15am-12.15am (12 slots)	Wednesday 13th of september / 20th of december	Green-Er: room 2D-011b
Open quantum systems	Wednesday 8am-10am (12 slots)	Wednesday 13th of september / 13th of december	Phitem: room A119
Quantum algorithms	Monday 10.30am-12.30am (12 slots)	Monday 11th of September / 18th of december	Green-Er: room 2D-009
Quantum optics	Tuesday 8am-10am (12 slots)	Tuesday 19th of september / 19th of december	Green-Er: room 2D-010

**In green** courses which start WEEK OF SEPTEMBER 11TH  
(other Toledo elective courses are listed in the next page)

[Online timetable ADE UGA](#) (choose M2 Nanochemistry-EMM-Nano+)

(click on the link above for september or use your Leo portal with agalan login)



# Quantum engineering 2<sup>nd</sup> year EMM Nano 2023-2024: Elective courses from Nanochemistry & Bionanotechnology tracks

 Free choice among the full list but check timetable compatibility

	Regular course slots	Start date / End date	Location
Active Matter	Friday 10.30am-12.30pm	Tuesday 15th of september / 15th of december	Phitem: room A019 and other rooms (see ADE)
Advanced Functional Nanomaterials	Wednesday 8am-10am (8 slots + practicals)	Wednesday 13th of september / 15th of November	Phitem: room D111
Molecular nanomaterials: C-Train	Tuesday 10.15am-12.15am (11 slots)	Tuesday 19th of september / 5th of december	Phitem A120
Molecular nanomaterials: J- Chauvin	Thursday 3.15pm-5.15pm	Thursday 14th of September / 7th of December	Phitem: A106 and other rooms at Phitem (see ADE)
Functional Nanoparticles	Wednesday 10.15am-12.15am (12 slots)	Wednesday 13th of september / 6th of December	Phitem: room A119
Nano-safety	Thursday 1.30pm-3pm	Thursday 14th of September / 21th of December	Phitem: room A006
Nanocomposites	Tuesday 8am-10am	Tuesday 19th of september / 5th of december	Phitem room A120
Nanopores and membrane technologies	Monday 5pm-6.30pm	Monday 11th of September / 8th of January	Phitem: room A120
Pi-conjugated and Conducting Polymers	Monday 8.30am-12pm	Monday 11th of September / 11th of December	UFR Nanochemistry: room 208B
Surface Functionalisation	Tuesday 3.45pm-5.45pm	Tuesday 19th of September / 19th of December	Phelma Minattec Z building (start in Z302)
Bio-molecular interactions: methods and applications	Tuesday 10.30am-12.30pm + extra Wednesday 8.15am-10.15am	Wednesday 20th of september / 24th of October	Phelma Minattec (see ADE minattec)
Neuroscience	Thursday 8.15am-10.15am & Tuesday 8.15am-10.15am + 08/12 8.15am-10.15am	Thursday 5th of october / 19th of december	Phelma Minattec Z404
-Physiology	Tuesday 1.30pm-3.30pm + 07/12 10.30am-12.30pm	Tuesday 19th of september / 7th of december	Phelma Minattec M256
-Optics for biological systems	Thursday 3.15pm-4.45pm	Thursday 21th of September / 22nd december	Phitem A006
Biomaterials and bio-compatible surfaces engineering	25/09 10.30-12.30 + Thursday 8.15am-10.15am or 10.30am-12.30pm + 15/12 8.15am-10.15am	Thursday 25th of september / 21th of December	Phelma Minattec Z203 (1st) and then Z208
Cell signaling and cancer biology	Tuesday 8.15am-10.15am (except 03/10)	Tuesday 26th of September / 24th of october	Phelma Minattec M254
Fundamental of structural biology	Monday 1.30pm-3pm	Monday 25th of September / 8th of January	Phitem D112
Machine statistical learning	19/09 (8.15m-10.15pm), 25/09 (8am-10am), 27/09 (3.45pm-5.45pm), 27/10 (10.30am-12.30am), 14/11 (10.30am-12.30pm), 21/11 (10.30am-12.30pm), 14/12 (8.15am-10.15am), 22/12 (8.15am-10.15pm)	Monday 19th of September / 22th of december	Phelma Minattec M building (informatic room) M252/M253/M159/M160
Molecular markers for medical imaging	Thursday 8.15am-10.15am	Thursday 9th of November / Thursday 14th of December	Phelma Minattec Z building (start in Z420) see ADE
Characterization of biomolecular interactions at surfaces	Monday 3.15pm-4.45pm	Monday 25th of September / 18th of December	Phitem: room D112
Research Training	See EMM Nano track coordinator	See EMM Nano track coordinator	Research in Laboratories
Biosensors and high through-put analysis	Friday 8.15am-10.15am or 10.30am-12.30pm + 28/11 1.30pm-3.30pm	Tuesday 17th of November / 22th of December	Phelma Minattec Z building (start in Z202)
Bio-molecular interactions: methods and applications	Tuesday 10.30am-12.30pm + extra Wednesday 8.15am-10.15am	Wednesday 20th of september / 24th of October	Phelma Minattec (see ADE minattec)

(In green courses that start WEEK OF SEPTEMBER 11TH)

[Online timetable ADE UGA](#) (choose one of EMM Nano tracks)

(click on the link above for september or use your Leo portal with agalan login)

[Online timetable ADE Grenoble INP](#) (choose Phelma/3a/3a\_phelma\_biomed\_nanobio)

(free access)

In red elective courses in conflict with a mandatory course

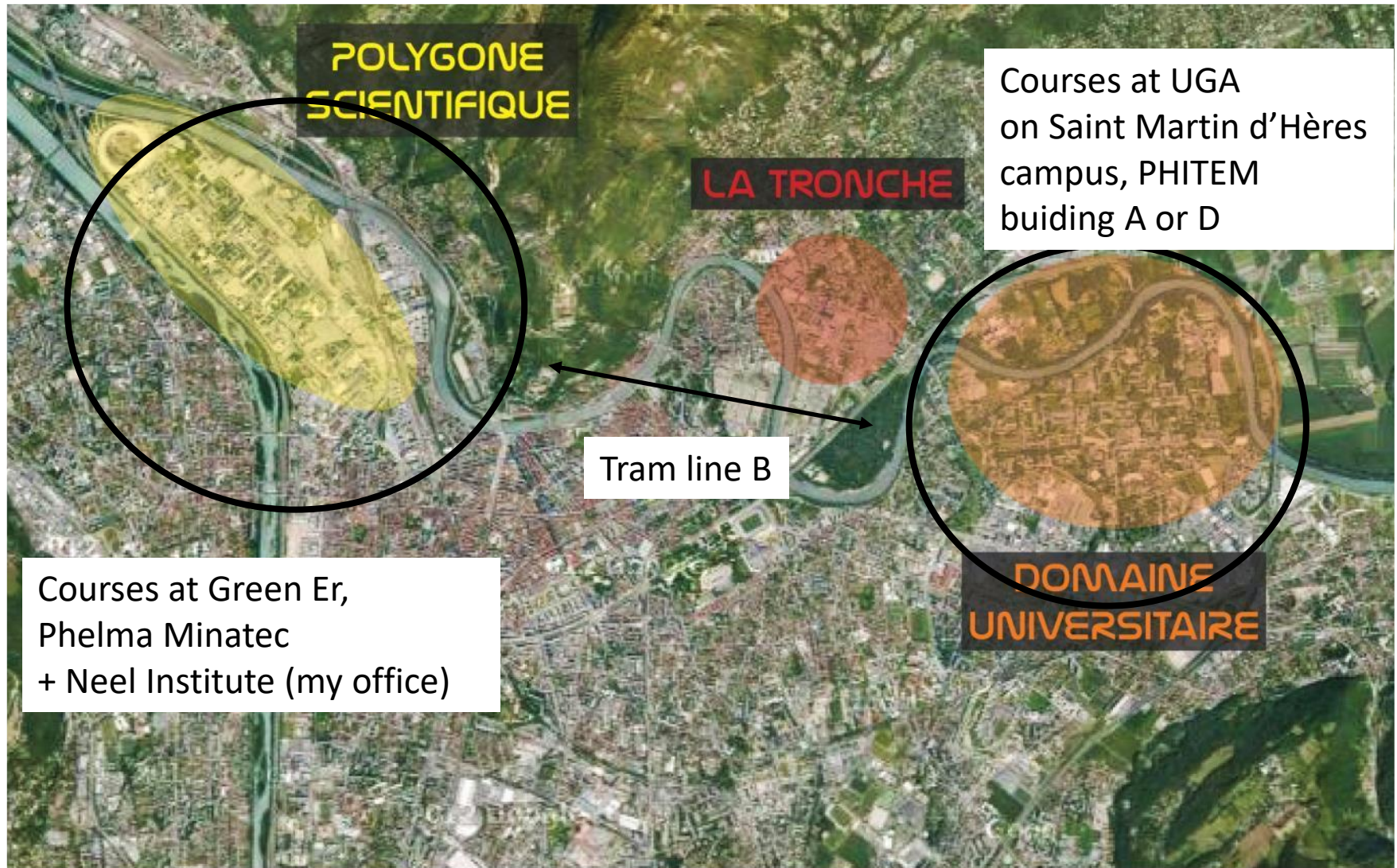
## 2<sup>nd</sup> year EMM Nano Master 2 program

- **First semester exams:** done in december an in January (red boxes to appear in ADE online agenda).
- **EMM Nano passing rules:** score to each exam should be larger than 10/20 in order to get ECTS credits.
- **2<sup>nd</sup> session exams** organized in from April to May 2024.
- **Master internship** possible from 15th of February until end of August (4 months minimum, 6 months maximum).
- **Master thesis defense (30 ECTS)** possible either at the end of June or at the end of August (free choice of student decided in March).

**Browse the different course outlines in the web site:**

<https://master-nanosciences.univ-grenoble-alpes.fr/emm-nano-elective-courses-853073.kjsp?RH=1619194451005>

## 4 different teaching buildings in two campus site (Scientific polygon)



Tram stop: Cité internationale ( Phelma-Minatec)  
Marie Louise Paris (Green Er)  
Last stop Oxford (Neel Institute)

Tram stop: G. Fauré (PhiTEM, ISSO)



# UGA Campus map, Saint Martin d'Hères

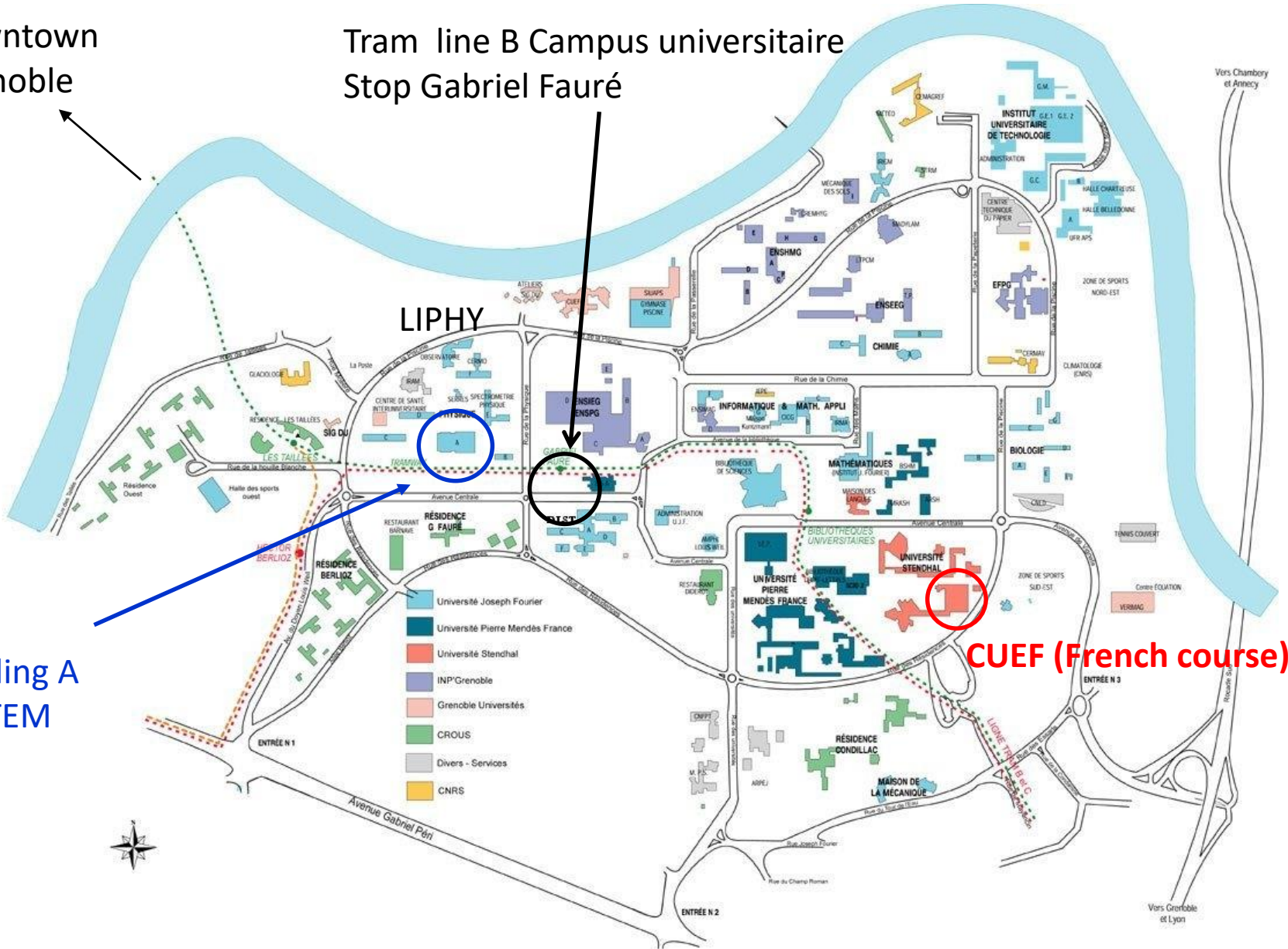
Downtown  
Grenoble

Tram line B Campus universitaire  
Stop Gabriel Fauré

Buiding A  
PhITEM

CUEF (French course)

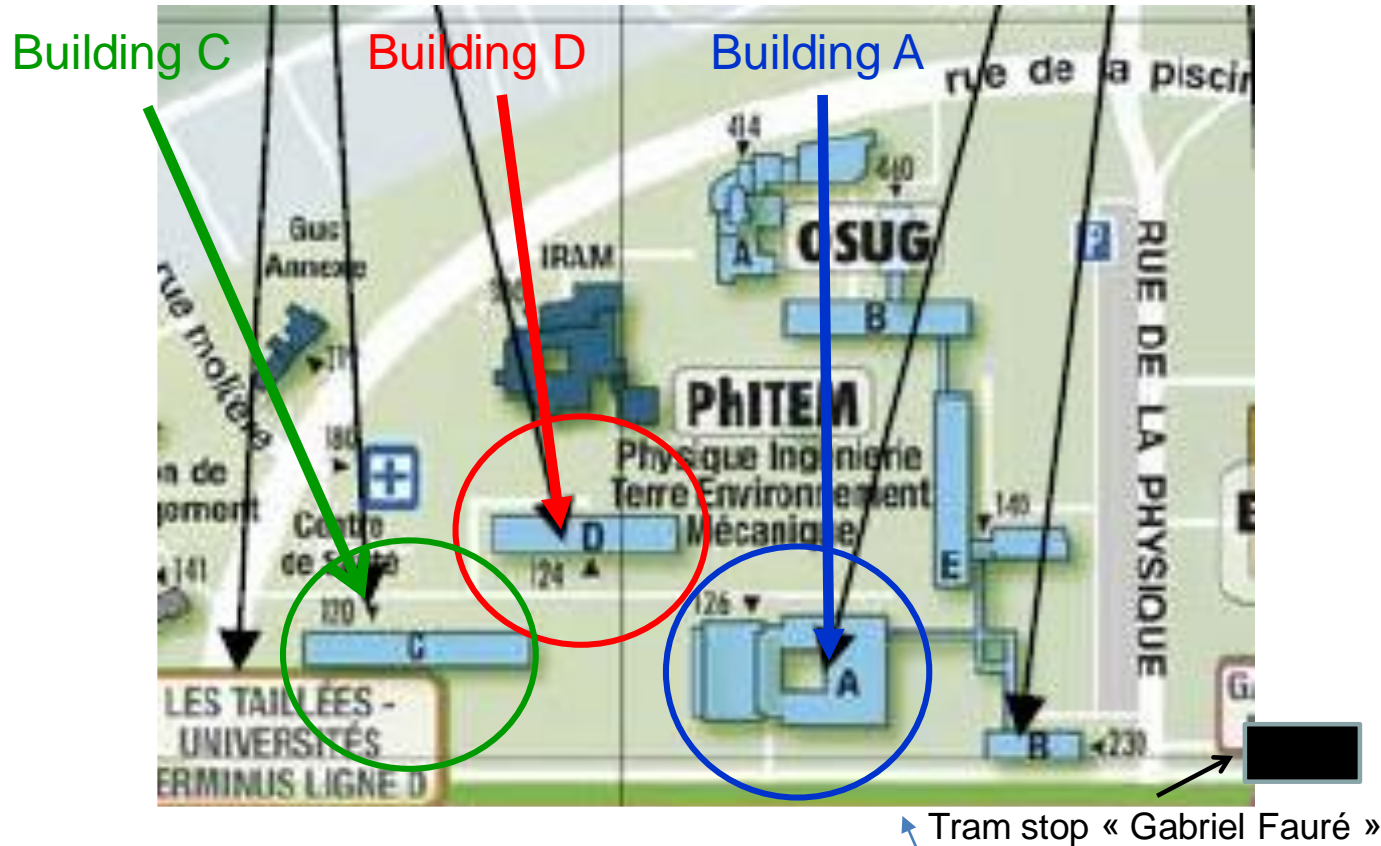
Tram line B, direction campus universitaire





## PHITEM buildings on UGA campus

Tram line B (green line) towards « Gières plaines des sports, stop CEA G. Fauré



Tram stop « Gabriel Fauré »

**Lost: contact Mrs Delphine Curinier**  
[phitem-master-nano@univ-grenoble-alpes.fr](mailto:phitem-master-nano@univ-grenoble-alpes.fr)  
+33 (0)4 76 04 10 32, office A108 (1st floor)

**Intermezzo CROUS restaurant**  
on the other side of the tram line

## GREEN-ER BUILDING

**Green Er** building (**GR** in the timetable), 21 Avenue des Martyrs, Grenoble

Tram line B (green line) towards « Oxford, stop Marie Louise Paris »



UGA lecture rooms: 2<sup>nd</sup> floor, take the lift on the right after the entrance

**Lost: UGA contact: Mrs caroline Ben Rabey,**  
[caroline.benrabeh@univ-grenoble-alpes.fr](mailto:caroline.benrabeh@univ-grenoble-alpes.fr)  
04 56 52 98 95, office 2-D002

(CROUS restaurant  
Located in ground floor  
of the building)

**Some Nano-biotechnology courses at Phelma Minatec, 3 Parvis Louis Néel Grenoble**



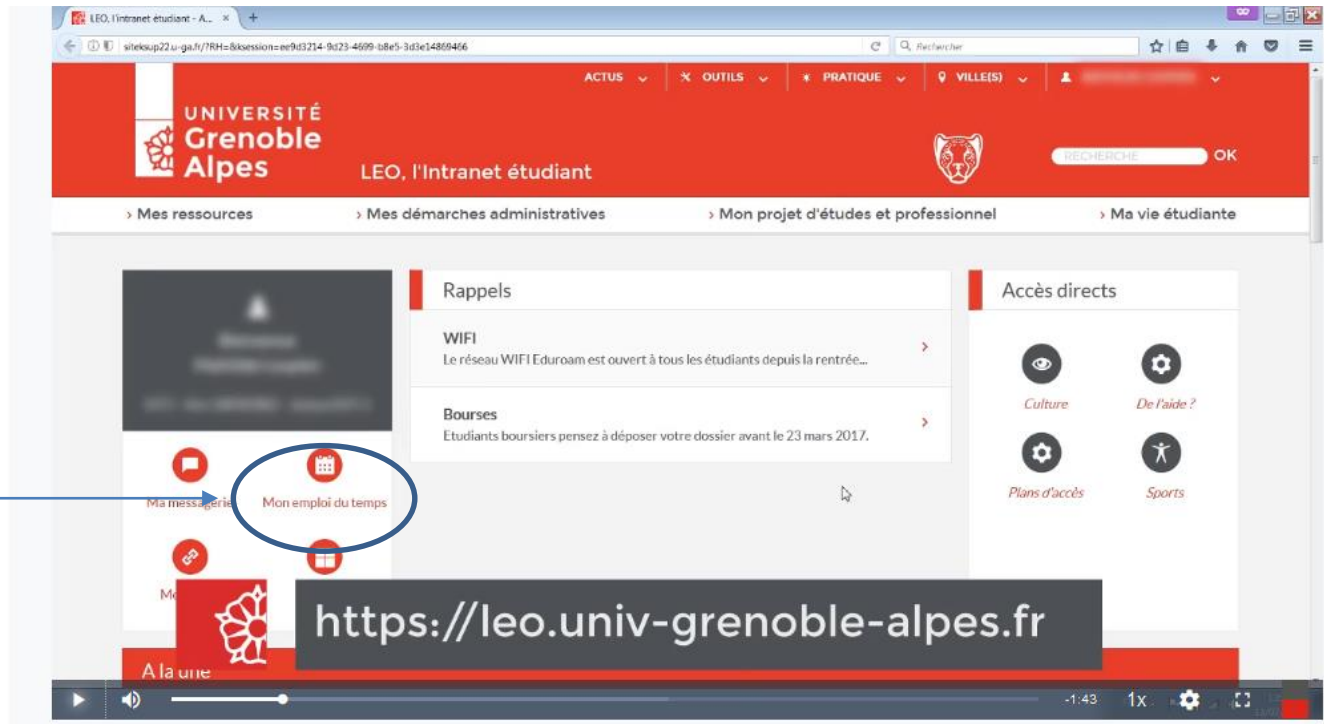
Tram line B (green one) towards « Oxford »  
Tram Stop « Cité internationale »

(Phelma Rooms noted Mxxx or Zxxx)



## How do I find the time and location of the courses ?

- Online timetable (called ADE) available on the leo student portal:  
<https://leo.univ-grenoble-alpes.fr>



- Direct access: [click here](#)

**Browse also the different course contents in the web site:**

<https://master-nanosciences.univ-grenoble-alpes.fr/emm-nano-elective-courses-853073.kjsp?RH=1619194451005>



Valid for Quantum engineering specialty

For Bionanotechnology specialty: wait for a message from J. Geiselmann

- Select on the right menu (english): Trainee, Phitem, Master 2, Master 2, and your track

The screenshot displays the STS GRENET.FR website interface. At the top, a navigation bar includes a search bar with the text "Rechercher" and a language selector set to "EN". Below the navigation bar, the main content area is divided into two sections: a "CALENDAR" on the left and a "RESOURCES LIST" on the right.

The "CALENDAR" section shows a monthly view for August 2020. The "RESOURCES LIST" section displays a list of resources, with "M2 Nano-Physics (mention nano)" highlighted. A blue circle is drawn around the "EN" language selector in the top right corner of the page.

The "RESOURCES LIST" section contains the following resources:

- M2 GC (U-CDE-CRM)
- M2 GCER (Geomechanics, Civil, Engineering and Risks)
- M2 GCER (Geomechanics, Civil, Engineering and Risks) Erasmus Mundus
- M2 GM
- M2 IMNs (Ingénierie des micro et nano-structures)
- M2 MEEES (Earthquake Engineering and Engineering seismology)
- M2 MISCT
- M2 MISTRE (Microélectronique, Intégration des Systèmes temps Réels Emb)
- M2 MQ (Matériau quantique)
- M2 Nano-Chimie
- M2 Nano-Physics (mention nano)**
- M2 Nano-Physique (mention physique)
- M2 OPTICO (Technique de commercialisation en Optique)
- M2 PSC (Physique subatomique et cosmologie)
- M2 Physique Médicale
- M2 Radioprotection
- M2 SIM
- M2 STPE - ACSC (Atmosphère - Climat - Surfaces Continentales)
- M2 STPE - Géodynamique
- M2 STPE - Géophysique
- M2 STPE - Géoressources
- M2 STPE - Géorisques
- M2 STPE - Hydorressources
- M2 WICS (Wireless Integrated Circuits and Systems)
- Pas d'étudiants
- Relations Internationales
- POLYTECH

The "RESOURCES LIST" section also includes a "Reunion de Rentrée Parcours M2 Nano-Physics et M2 Mention Physique parcours Nano-Physique" event, which is highlighted in blue. The event details are as follows:

- PHITEM - TD A120**
- M2 Nano-Biosciences
- M2 Nano-Chimie
- M2 Nano-Physics (mention nano)
- GEISELMANN JOHANNES

The event is scheduled for Wednesday, September 30, 2020, from 09:00 to 11:15.

The bottom of the page features a "OPTIONS" section with a grid of dates for the week of September 30, 2020. The date "S38-31/08 au 06/09" is highlighted in blue.