Welcome to Master2 WICS

Wireless Integrated Circuits and systems

16th sept 2024

Chamilo website of the master2 WICS

https://chamilo.univ-grenoble-alpes.fr/courses/UGA002885

Master2 WICS UGA Supervisor:Estelle.LAUGA-LARROZE@univ-Grenoble-alpes.fr

Master2 WICS INP Supervisor: Laurent.MONTES@Grenoble-inp.Fr

- Introduction of the WICS’s responsibles team
- Grenoble as a European Science Cluster
- Master2 WICS focus
  - Organization of studies
  - Different locations
  - Time schedule (Sylvain BOURDEL)
  - Research Lab Work (Jean-Daniel ARNOULD)
  - English or French as a foreign langage
  - Master’s internship (Jean-Marc Duchamp)
- Master graduation
- Practicals Details

Master2 WICS's Supervisor team

M2WICS UGA Supervisor: Estelle LAUGA-LARROZE

M2WICS INP Supervisor: Laurent MONTES

M2WICS International Relationships Supervisor: Florence PODEVIN

RLW Supervisor
Jean-Daniel ARNOULD

Internship Supervisor
Jean-Marc Duchamp

Time Scheduling
Sylvain BOURDEL

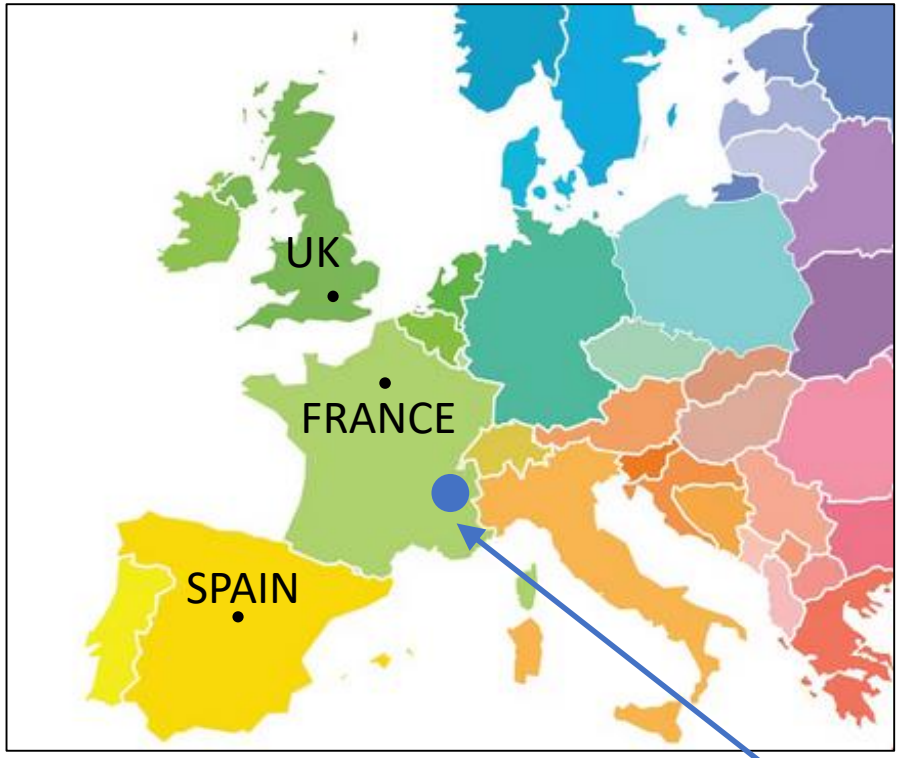
Researchers

Master's Administrativ staff :

Angèle MELCHIOR (or Océane CLARET)
desk 2-D-02 GreenEr , 08:30-13:00,
phitem-master-eea @ univ-grenoble-alpes.fr

University Grenoble Alpes, France

« Capital of Alps »
Population: 160 000 hab (16th town of France)
5th/45* best French city to study in



European Science Cluster

GIANT
INNOVATION CAMPUS

Grenoble

* https://www.letudiant.fr/classements/classement-des-villes-etudiantes/laureat/grenoble.html

Grenoble: European Science Cluster

Science is GIANT (Grenoble Innovation for Advanced New Technologies)

GIANT INNOVATION CAMPUS

www.giant-grenoble.org

GIANT Innovation Campus is 30 000 people working in **Research**, **Innovation** or **higher education**



GIANT Innovation Campus is an alliance of:

- research organizations (CEA, CNRS)
- major international facilities (ESRF, EMBL, Neutrons for society)
- Universities (Grenoble-INP, UGA).

The aim of the GIANT Innovation Campus is to respond to the major challenges facing our society in the fields of:

- **information and communication technologies**
- **renewable energy & environmental issues**
- **health.**

MINATEC®

MINATEC at Grenoble

Innovation in MIcro and NAnotechnology and TEChnology transfer

A kind of "totem" for scientific and academic excellence in micro and nanotechnologies in the Grenoble area to support the industries.

www.minatec.org

European's first innovation campus for micro and nanotechnology

Some indicators:

- 3000 researchers, 1200 students and 600 technology transfer specialists
- International industries: STMicroelectronics, SOITEC, Scheider Electric…
- European and national facilities: IRT Nanoelec, CNFM…

Currently a favorable political context for the semiconductors

The covid pandemic and geopolitical situation have highlighted the strategic importance of semiconductor technology

University of Grenoble Alps : UGA

Key figures and ranking

59 000 students (10 000 international students, 1 over 6 is an international one and there is a dedicated service: International Students & Scholars Office);

3 700 Ph.D Students (>40% of international Ph.D's)

3 100 teachers and researchers;

73 research laboratories (lab in France are very big staff, more than 100 people: researchers, engineers, ph.d, students..)

Top 150 in the Shanghai 2022 global ranking (http://www.shanghairanking.com) **....**

The place to be	Grenoble: top 5 for best French city to study in Giant : an unique research environment UGA : world's top 100 for electrical and Electronic Engineering

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Master2 WICS
Organisation of studies

Université Grenoble Alpes

ADMISSION in 2 nd Year of Master Degree

Students from french and foreign Universities

French Bac-calauréat diploma

FRENCH UNIVERSITY LEVEL

M2 WICS

prépa | **Engineering School** | **Ph.D degree**

Licence degree | **Master deg.**

GRENOBLE INP UGA Phelma — Systèmes électroniques intégrés

UGA UFR PhITEM Université Grenoble Alpes — Master Electronique, énergie électrique, automatique
2d year: Wireless integrated circuits and systems

Master2 WICS

An international program to accelerate your career

Université Grenoble Alpes

- To develop high-level skills and advanced methods in technologies for wireless communication circuit & system design

- To intensify microwave concepts and related integration technologies
From free-space propagation , antennas to integrated microwave integrated circuits
From sensors to radar & communication system applications

- Research oriented Master, Ph.D opportunities in labs or company's R&D

- All lectures are taught in English (exam also in English)

To keep in mind:
Tuition fees are reduced because French government supports a large part of the cost!
The real cost of a Master training is around 15k€ per student.
Be honored to have been selected for these courses and also be grateful for this chance (be diligent and conscientious all along this year)

Master2 WICS

Educational program of the M2 WICS

Université Grenoble Alpes

First semester

- RF Communication Systems (6 ECTS)
- Radiofrequency Integrated Circuits (6 ECTS)
- Antennas and propagation (3 ECTS)
- English / French (3 ECTS)
- Microwave circuits (6 ECTS)
- Integrated technologies (3 ECTS)
- One-day-per-week research lab work (6 ECTS)
- Speciality courses (3 ECTS)

Second semester

- Master's Thesis in Lab or company's R&D

Master2 WICS

Educational program of the master WICS

Université Grenoble Alpes

Special lectures (speak about it later)

First semester

- RF Communication Systems (6 ECTS)
- Radiofrequency Integrated Circuits (6 ECTS)
- Antennas and propagation (3 ECTS)
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- Microwave circuits (6 ECTS)
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- One-day-per-week research lab work (6 ECTS)
- Speciality courses (3 ECTS)

Second semester

- Master's Thesis in Lab or company's R&D

Master2 WICS

Learning Modules
1st semester

All details can be found on:
WICS chamilo / administrative info/rules

Intitulé des UE et/ou des Blocs de Connaissances et de Compétences (le cas échéant, les intitulés des EC et des matières sous les UE)	Cours mutualisés (le cas échéant)	ECTS	NOMBRE D'HEURES			
			CM	TD	CM/TD	TP
SEMESTRE 9						
Radiofrequency Communication Systems		**6**				
- Wireless Communications	cours G-INP/PHELMA/3A/SEI mutualisé avec WICS		14	4	0	0
- Analog and Mixed Systems for signal processing	cours G-INP/PHELMA/3A/SEI mutualisé avec WICS		0	0	20	0
- High data rate wireline systems			0	0	8	0
Radiofrequency Integrated Circuits		**6**				
- Radiofrequency integrated circuits	cours G-INP/PHELMA/3A/SEI mutualisé avec WICS		14	14	0	0
- Lab work: Design of integrated RF circuits			0	0	0	24
Microwave Circuits		**6**				
- Microwave passive circuits			0	0	24	0
- Lab work: Design and characterization of microwave passive circuits			0	0	0	24
Antennas and Electromagnetic Compatibility		**3**				
- Antennas			6	10	0	0
- Signal integrity			10	0	0	0
Integrated technologies & process of fabrication		**3**				
- Standard and alternative microelectronics technologies			0	0	20	0
- Clean room based fabrication			0	0	0	8
Specialty courses		**3**				
- Design for test	cours WICS mutualisé avec G-INP/PHELMA/3A/SEI		0	0	8	0
- Radio Frequency IDentification Technologies	cours WICS mutualisé avec G-INP/PHELMA/3A/SEI		0	0	8	0
- Electrooptic sensors & Bio electromagnetism			0	0	8	0
- Tunable RF - Technologies & Applications	cours WICS mutualisé avec G-INP/PHELMA/3A/SEI		0	0	8	0
Research Lab Work (part I)		**3**				
- Oral defense			0	0	0	48

Master2 WICS

Learning Modules' description: 2d semester

Université Grenoble Alpes

All details can be found on:
WICS chamilo / administrative info/rules

Intitulé des UE et/ou des Blocs de Connaissances et de Compétences (le cas échéant, les intitulés des EC et des matières sous les UE)	Cours mutualisés (le cas échéant)	ECTS	NOMBRE D'HEURES			
			CM	TD	CM/TD	TP
SEMESTRE 10						
Research Internship		**24**				
Research Lab Work (part II)		**3**				
-Publication writing			0	0	0	48
Choix de 3 ECTS parmi :						
Français Langue Etrangère		**3**				
Anglais		**3**		24		
Total ECTS / Semestre		30	0,00	24,00	0,00	48,00

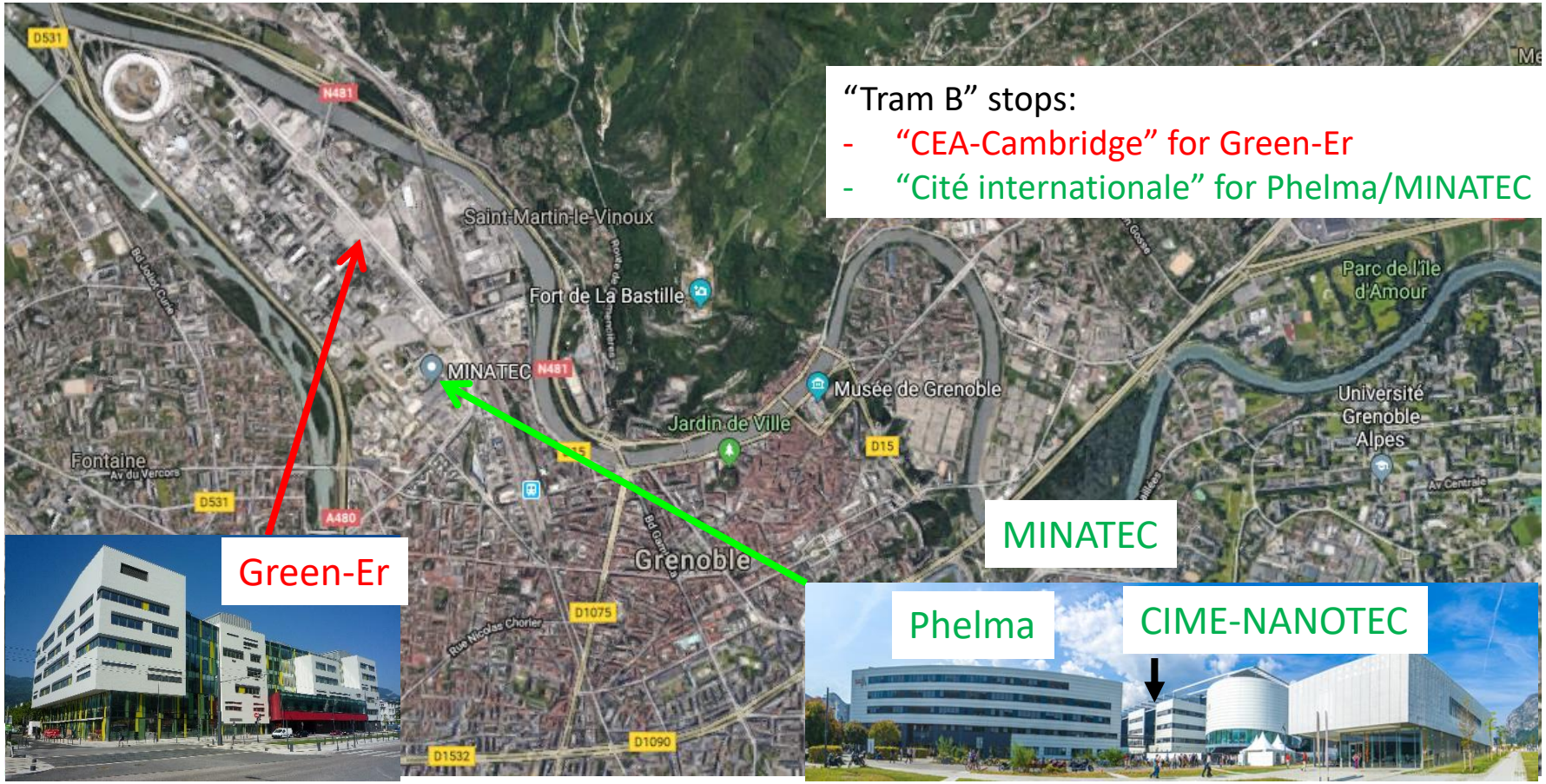
Master2 WICS
Teaching place

Pay attention on the teaching place
(see later)

Learning module	Total ECTS	ECTS	Exam[1]	Approximative number of hours		Teaching place for	
				Course	Lab work	UGA students	G-INP students
Antennas and Electromagnetic Compatibility	3						
- Antennas		2	Written	16		PHELMA - MINATEC	
- Signal integrity		1	Written	10		PHELMA - MINATEC	
Integrated technologies & process of fabrication	3						
- Standard and alternative microelectronics technologies		2	Written	20		PHITEM - GREEN-ER	
- Clean room based fabrication		1	Written		8	CIME-NANOTECH	
Specialty courses	3						
- Design for test		0.75	Written/Oral	8		MINATEC or GREEN-ER	
- Radio Frequency IDentification Technologies		0.75	Written	8			
- Electrooptic sensors & Bio electromagnetism		0.75	Written	8			
- Tunable RF - Technologies & Applications		0.75	Written	8			

Master2 WICS

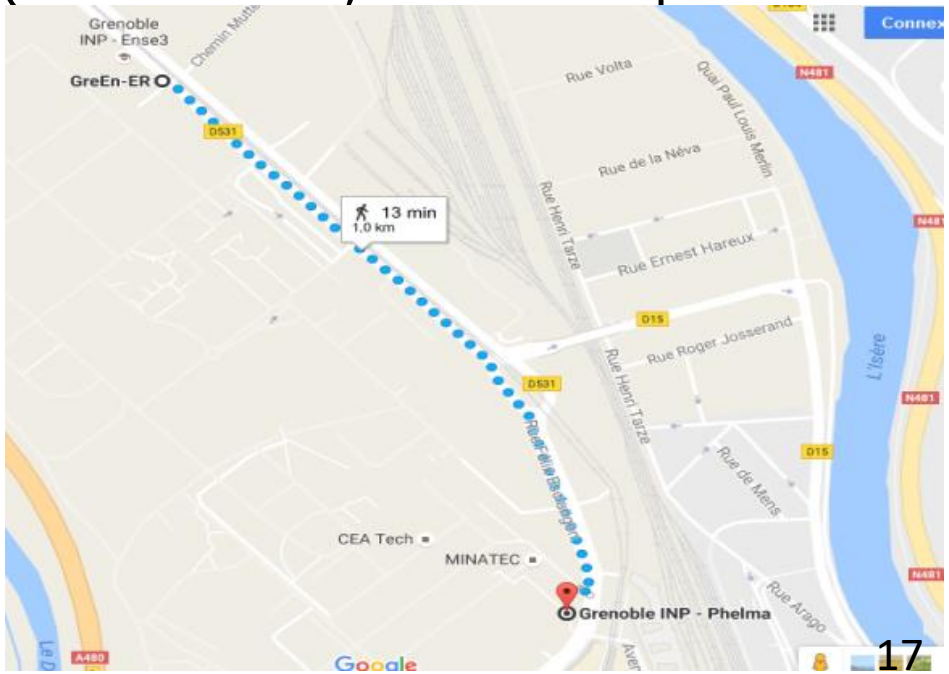
Different locations for lectures/lab sessions



Master2 WICS
Lab session platforms

Université Grenoble Alpes

- **CIME Nanotech**
  - Location: BCAI building (close to PHELMA Minatec building)
  - Around 15 minutes from GreEN-ER building (or TRAM B, Tram stop "Cité internationale")
  - **Platform for:**
    - Integrated circuit design (3rd floor),
    - RF characterization (ground floor),
    - Clean room facilities (1st floor)



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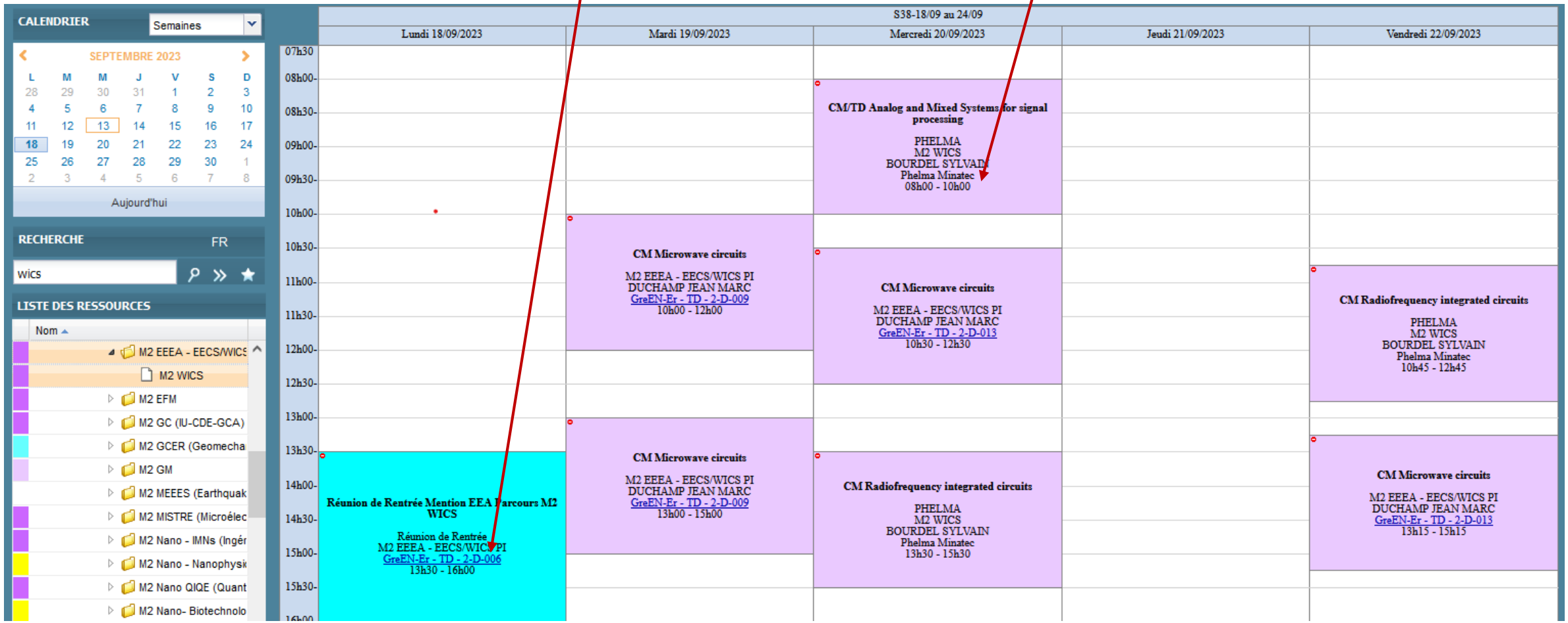
Master2 WICS

Time schedule

Pay attention on the teaching place

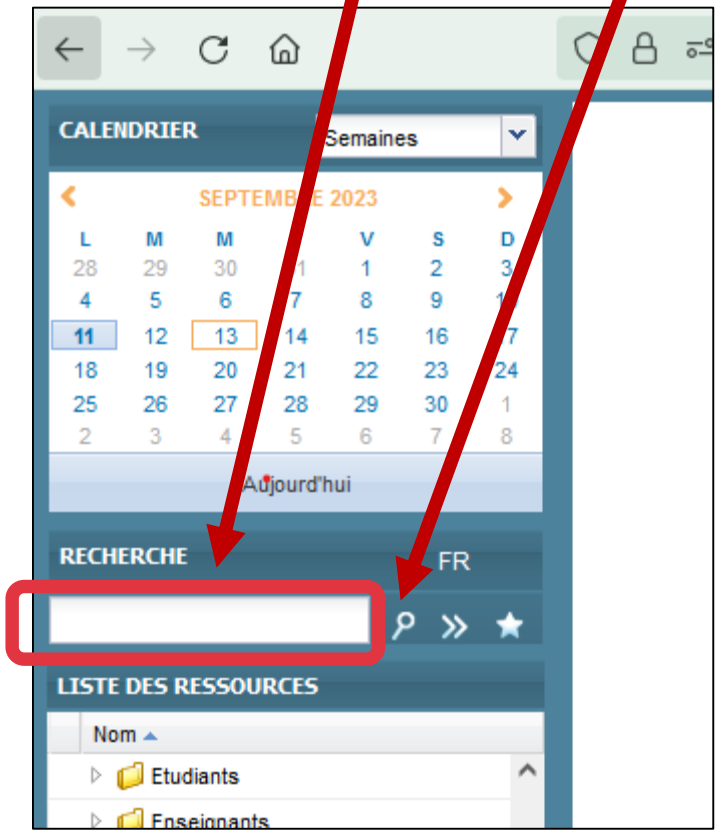


=> How to see your time schedule?!

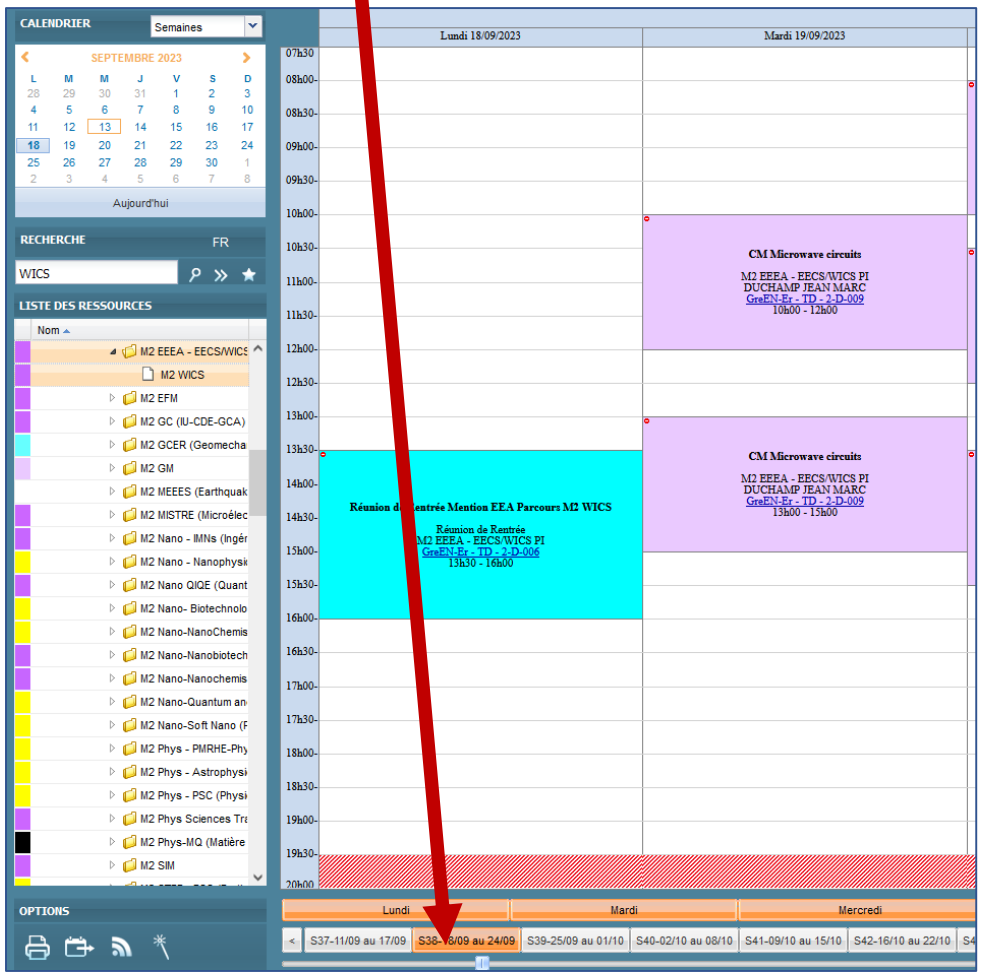
Master2 WICS

ADE tool for UGA time schedule

Write WICS and select search



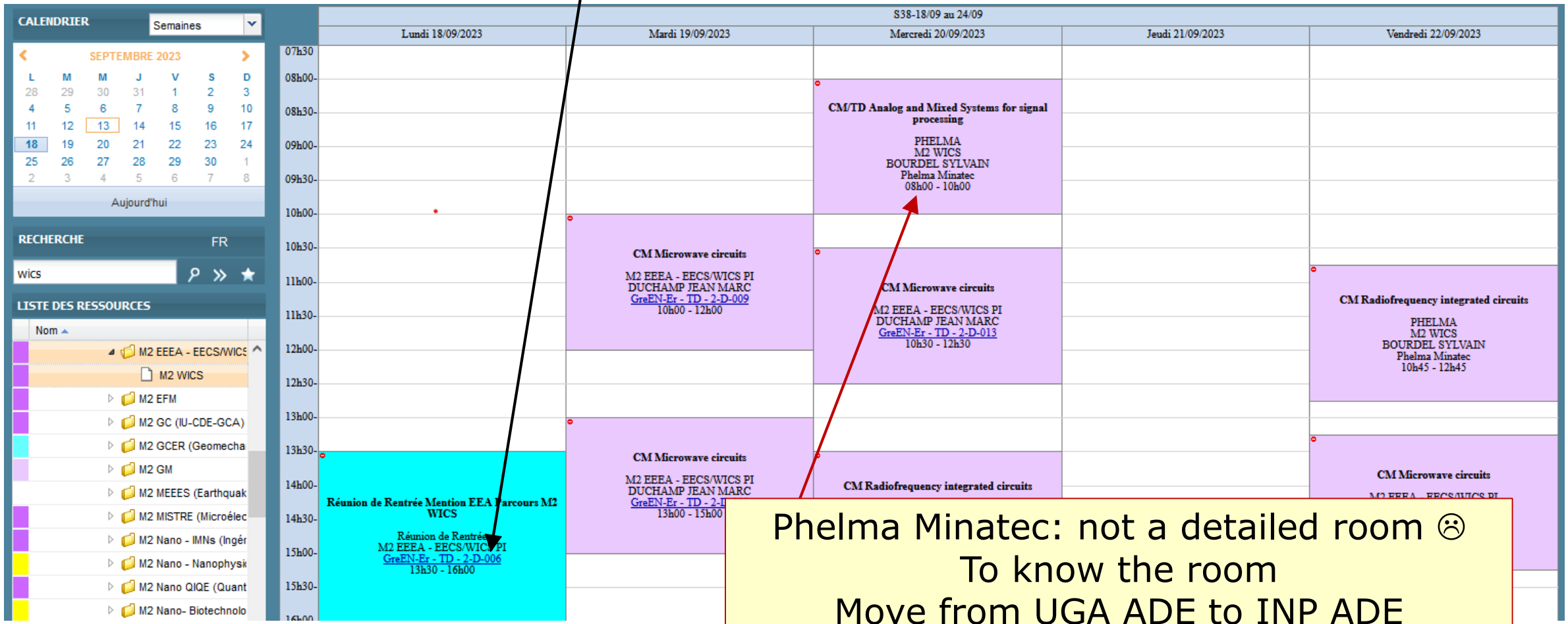
Select the good week



Master2 WICS

ADE tool from UGA

Green-Er: detailed room OK ☺



Phelma Minatec: not a detailed room ☹

To know the room

Move from UGA ADE to INP ADE

https://edt.grenoble-inp.fr

and research « dd_sei_wics_S9 » **and** « m2_wics »

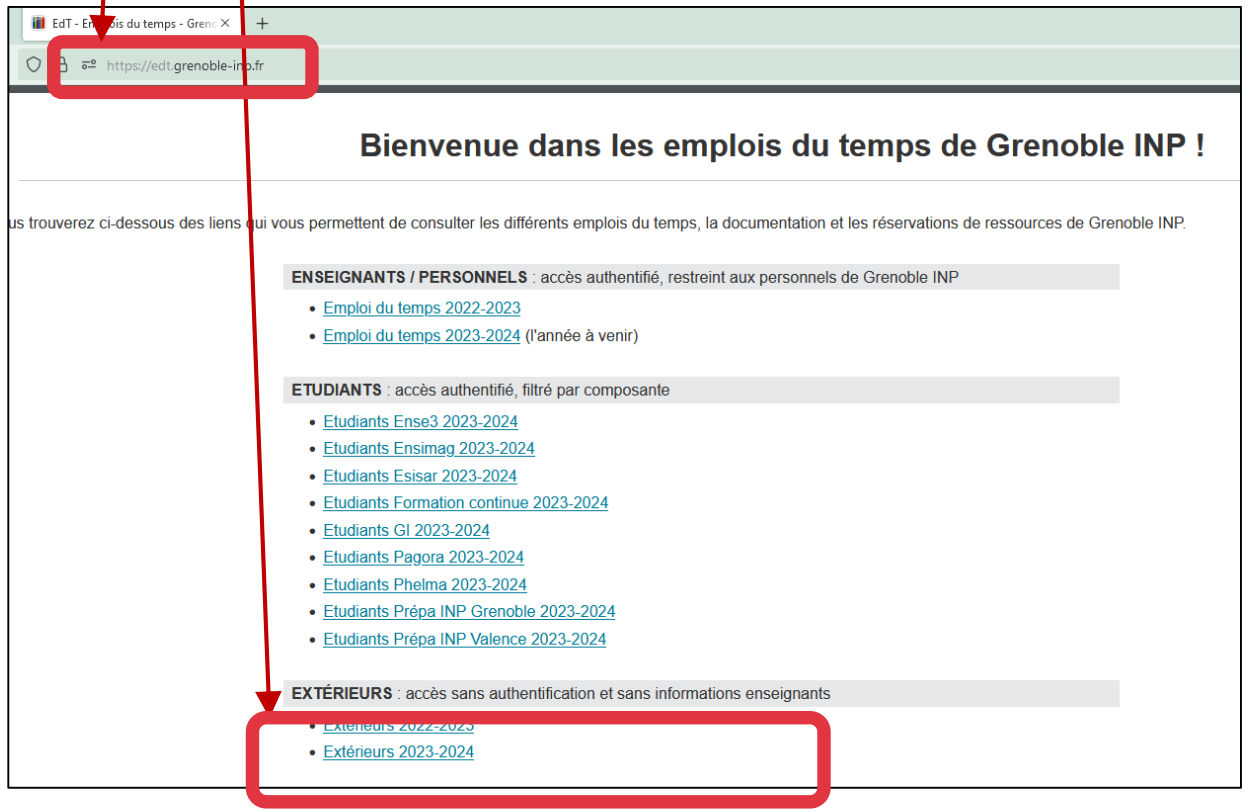
Master2 WICS

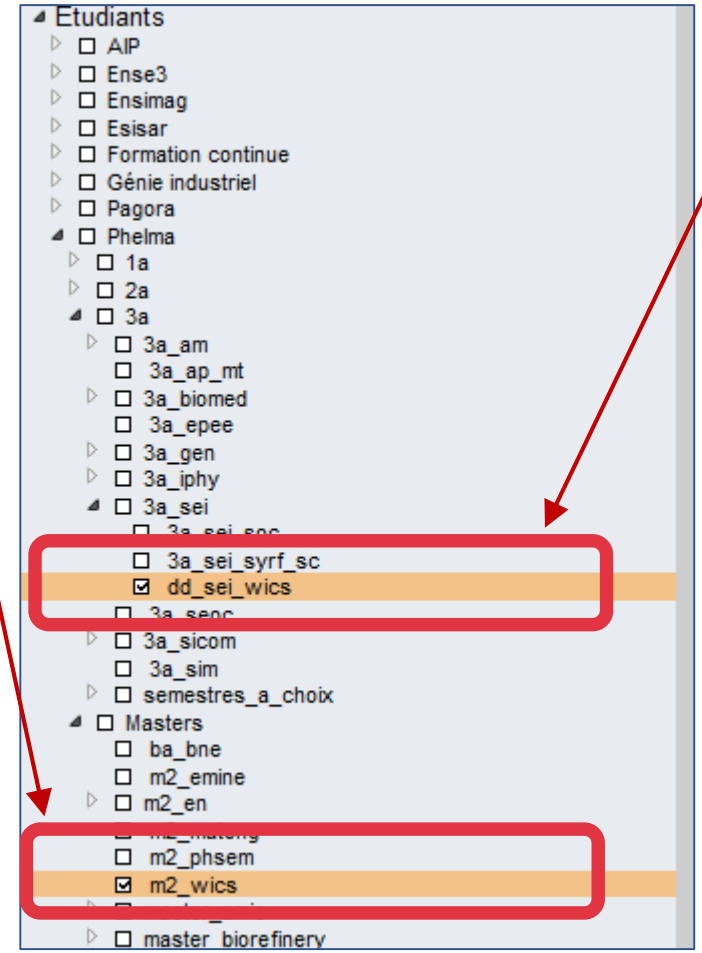
ADE tool for lectures at Phelma minatec

1/ Move from UGA ADE to INP ADE **https://edt.grenoble-inp.fr**

2 / Select **« extérieur 2024-2025 »**

3 / Deploy « Etudiants/Phelma/master/wics » **AND** « Etudiants/Phelma/3A/3A_sei »

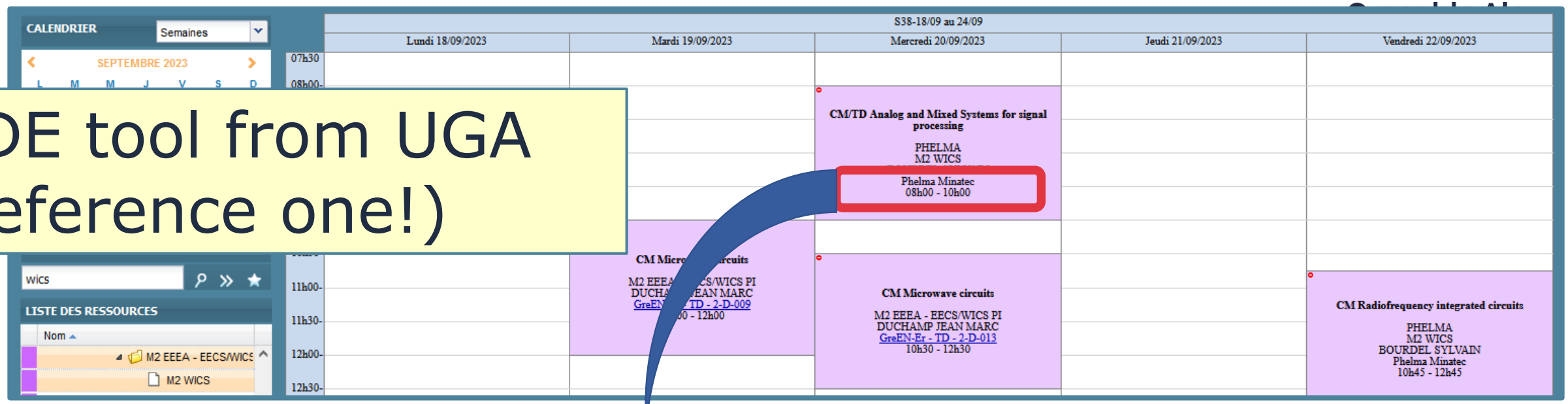




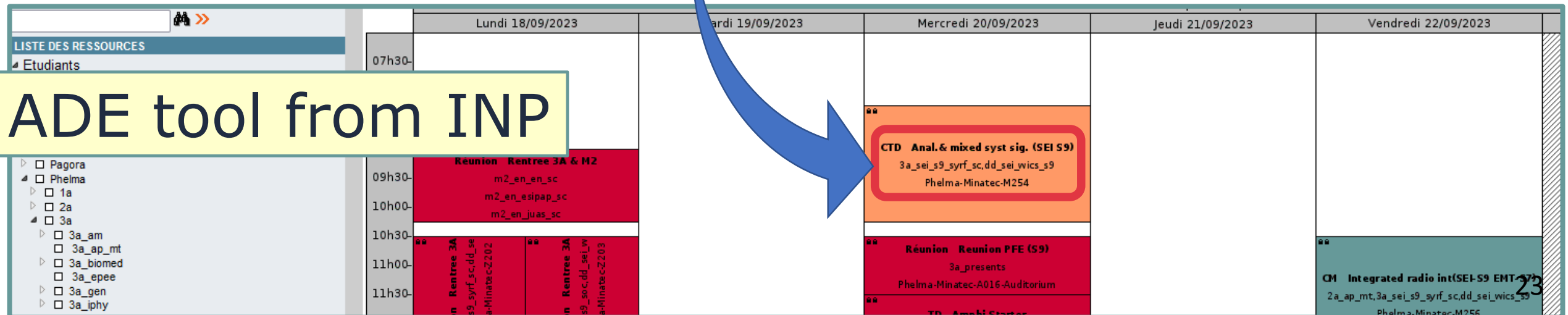
Master2 WICS

Teaching place /!\

ADE tool from UGA (reference one!)



ADE tool from INP



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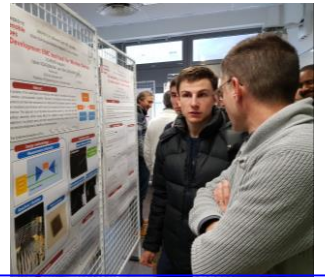
Master2 WICS
Research Lab work (RLW)

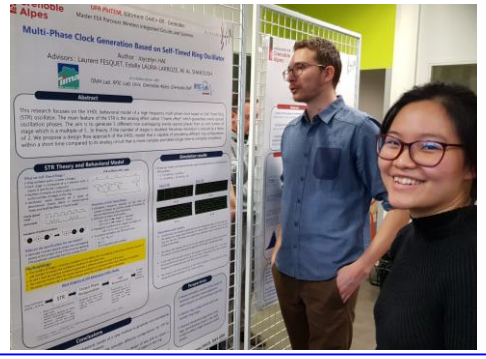
What is RLW? A research topic will be proposed by a researcher supervising the student.
The student will have to carry out various activities related to research:
bibliographic study, theoretical study, modeling, simulations, characterization, ..

How to carry out the RLW?
RLW will take place in the host laboratory **every Tuesday,** from **October to January.**

How the RLW are evaluated (6 ECTS) (to be confirmed):
one scientific paper (article) (4 pages) and **an presentation (poster or oral)** at the end of January

Local RLW conference





Can be submitted and accepted to a real conference!

Congratulations to F. Mohsen, N. Srinivassane, S. Manaa (Students from previous year)
Their work carried out during their RLW has been accepted at Student workshop NEWCAS22

Master2 WICS

Exemple of Research Lab work (the ones proposed previous year)

Université Grenoble Alpes

ject	Topic	Supervisors	Contact	Lab
1	Design of miniaturized RF patch filters in PCB Technology	M.Wehbi - Ferrari	philippe.ferrari@univ-grenoble-alpes.fr	RFIC
2	Caractérisation électrique et analyse des phénomènes de fiabilité des diodes PIN ut	Jose Lugo	Jose.LUGO@cea.fr	CEA-Leti
3	Development of new radio communication techniques for energy efficiency	madedine -Yannis Le Guenn	imadeddine.bendjeddou@univ-grenoble-alpes.fr yannis.leguennec@phelma.grenoble-inp.fr	GIPSA-lab RFIC-Lab
4	Réalisation d'un corrélateur en temps réel à l'aide d'un circuit dsPIC. Le module devra être utilisé dans un récepteur radio numérique.	Emil Novakov	emil.novakov@univ-grenoble-alpes.fr	IMEP-LAHC
5	Commande d'un circuit radio ADF7021 à l'aide d'un microcontrôleur.Arduino DUE. L'objectif est de réaliser un système de communication radio bi-directionnel.	Emil Novakov	emil.novakov@univ-grenoble-alpes.fr	IMEP-LAHC
6	Study of a de-embedding method for 4-port circuits based on 2-ports measurements	JD Arnould - E.Pistono	jean-daniel.arnould@grenoble-inp.fr emmanuel.pistono@univ-grenoble-alpes.fr	RFIC
7	Study and design of a narrow-band bandpass filter based on partially air-filled slo	CORSI Jordan / PISTONO Emmanuel	jordan.corsi@univ-grenoble-alpes.fr, emmanuel.pistono@univ-grenoble-alpes.fr	RFIC
8	Study and design of a compact antenna based on a partially air-filled slow-wave SIW in a non-standard PCB technology	SI Jordan / PISTONO Emma	jordan.corsi@univ-grenoble-alpes.fr, emmanuel.pistono@univ-grenoble-alpes.fr	RFIC
9	De-embedding of an 4 ports differential IQ splitter of NXP	ARNOULD Jean-Daniel	jean-daniel.arnould@grenoble-inp.fr	RFIC
10	LNA design and dvltp on FDSOI28nm for cryo aplications	Salvador MIR Estelle LAUGA-LARROZE	Salvador.Mir@univ-grenoble-alpes.fr estelle.lauga-larroze@univ-grenoble-alpes.fr	TIMA RFIC
11	STRO design and dvlpt in fdsoi28nm for 10 phases circuits	Laurent FESQUET Estelle LAUGA-LARROZE	Laurent.Fesquet@univ-grenoble-alpes.fr estelle.lauga-larroze@univ-grenoble-alpes.fr	TIMA RFIC
12	RF setup automation for active components electrical characterization at mmw	Jose Lugo / Alexis Divay	Jose.LUGO@cea.fr / Alexis.DIVAY@cea.fr	CEA - CIME

Master2 WICS

Research Lab work organisation

Université Grenoble Alpes

1st Step: Subject choice -> Select 3 subjects among the list of proposed research topics

-> Contact the supervisors of these 3 subjects (e-mail + CV).

-> Indicate to RLW responsible your order of preference

2d step: Subject assignment

Student and supervisors will be informed

3d step: (Phitem and Phelma) Administrative protocol

Agreement between the hosting laboratory and Phitem

4th step: RLW start Research Lab Work **every Tuesday, from October to January**

4th step: Laboratory Administrative protocol (reception procedure)

Master2 WICS

Steps to select the RLW subject

Jean-Daniel Arnould will send you a list of Research Lab Work subject by email

→ **YOU will have to contact some supervisors and select your prefered within one week**

-> Select 3 subjects among the list of research topics

-> Contact the supervisors (CV and motivation) of these 3 subjects.

Jean-Daniel Arnould will ask your prefered RLW subjects by email **by Sept. 30th**

→ **YOU will have indicate to us your order of preference by Sept. 30th**

Jean-Daniel Arnould will assign each student to a RLW subject by email

We will contact administrativ staff to obtain the hosting laboratory agreements

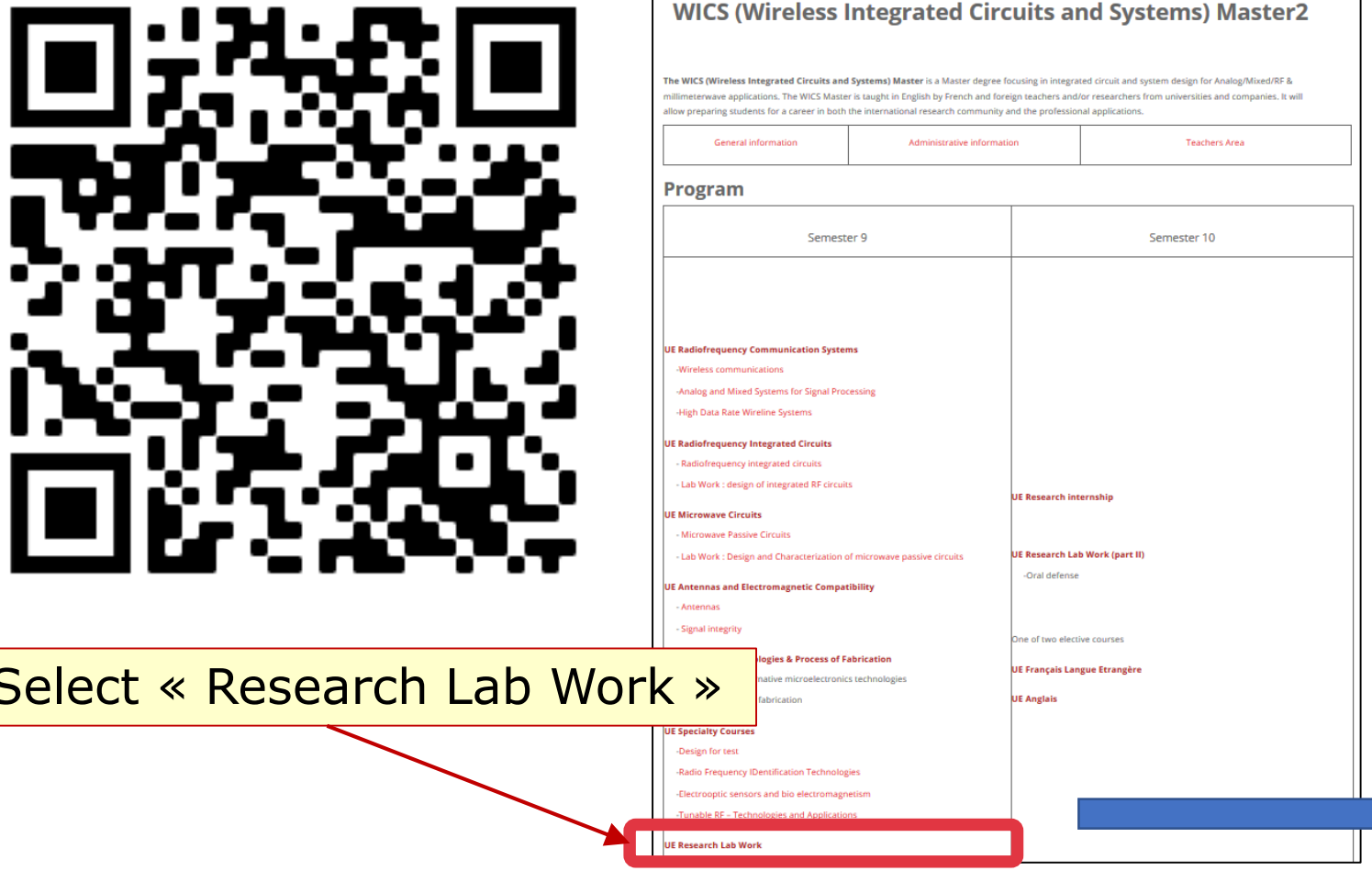
→ **YOU have to contact your final RLW supervisors** to know the laboraty (security/hosting) process

→ Your RLW will start: every Tuesday, from October to January

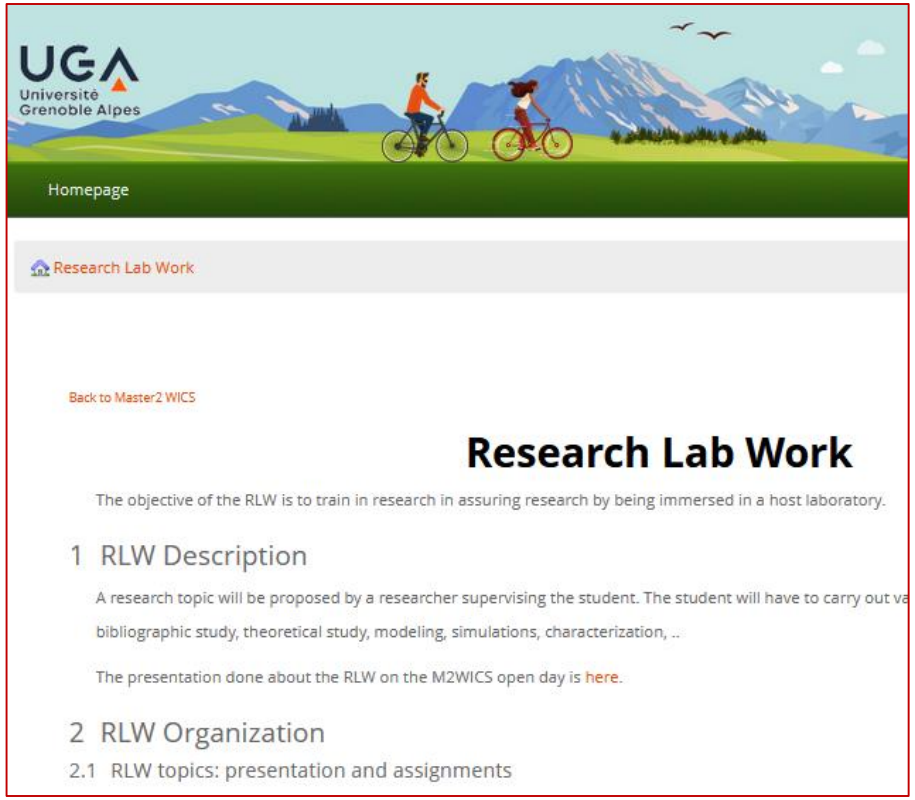
Master2 WICS

Research Lab work description on chamilo

https://chamilo.univ-grenoble-alpes.fr/courses/UGA002885



Select « Research Lab Work »



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Master2 WICS

English or French as foreign langage

Université Grenoble Alpes

First semester	RF Communication Systems (6 ECTS)	Radiofrequency Integrated Circuits (6 ECTS)	Antennas and propagation (3 ECTS)	English / French (3 ECTS)
	Microwave circuits (6 ECTS)	Integrated technologies (3 ECTS)	One-day-per-week research lab work (6 ECTS)	Speciality courses (3 ECTS)
Second semester	Master's Thesis in Lab or company's R&D			

Master2 WICS

English or French as a foreign language (UGA students only)

- If B2 level in English is not validated, you should follow English course
- For foreign student, French as foreign langage will replace “English” (on the campus)
- In all cases, you should fill in the electronic form ASAP and give it to the reception desk (Room 2D-002) by the end of this week

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Master2 WICS
Master's Internship

Université Grenoble Alpes

Second semester

Master's Thesis in Lab or company's R&D

5 - 6 months (from February to July)
Research internship in an academic laboratory or an in-firm R&D center

Start sending applications in October, DO NOT WAIT UNTIL THE LAST MINUTE!!
Applications must be prepared well in advance (CV, motivation letters…)

SAVE THE DATE: "Phelma Job Fair" October, 24th at World Trade Center

Master WICS partner laboratories

Master2 WICS

Research Internship description on chamilo

"Phelma Job Fair"
SAVE THE DATE : October, 24th

- go ahead with a resume and a business card
- well dressed

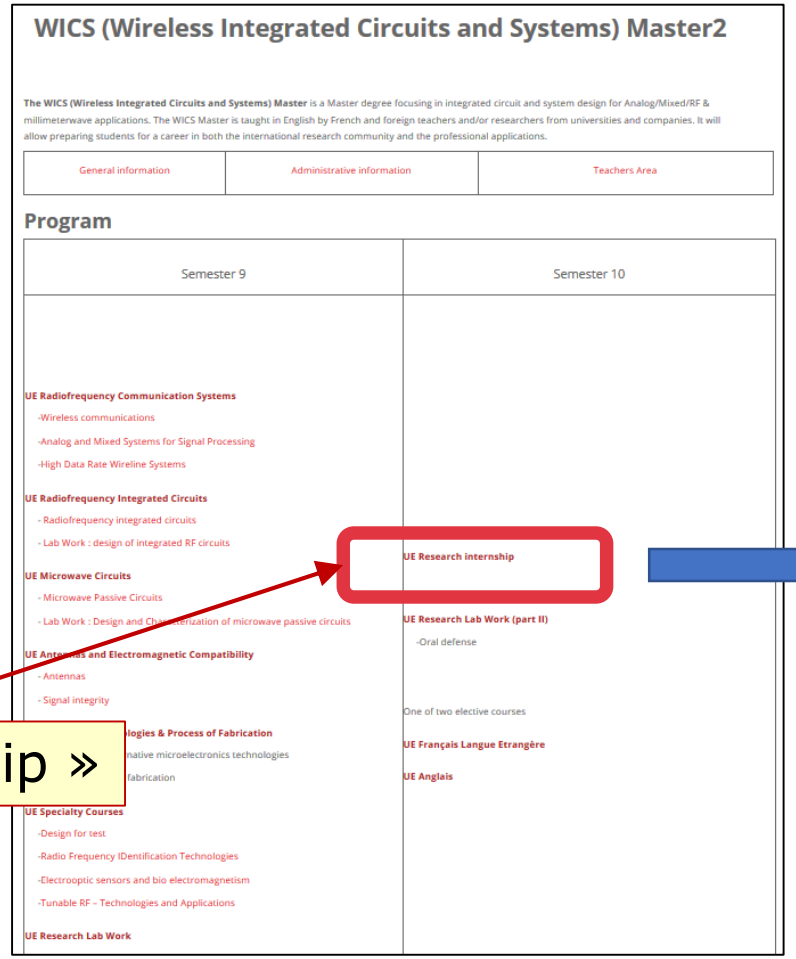
https://phelma.grenoble-inp.fr/fr/entreprises/phelma-job-fair-ex-journee-des-partenaires-jeudi-24-octobre-2024

Adentis, Adetel Group, Advans Group Elsys Design, Alcadia, Allegro DVT, Alten, Altran, Amer-Sil, Anevia, Aperam, Arcelor Mittal, ARM, Arturia, Assystem, ATOS, ATR, Ausy, Axians, Bassetti, Becton Dickinson, Bertin Technologies, Bosch, CEA, Cegelec CEM, Centum Adeneo, CES, CNIM, CRMBM, Crocus Technology, CS Systèmes d'information, Corys T.E.S.S., Décathlon SA, Defacto Technologies, Dolphin Design, EASII IC, EDF, Eiosis, EM Microelectronic Marin SA, Eveon Alpao, Framatome (ex AREVA NP), Expleo, Fraunhofer ICT, Fresenius Kabi, GIN, Go Concept, Group SNEF, Groupe Total, Hager Group, IC'Alps, Inopro, IADI, IBA, INOPRO, INNOVATEAM, INVIA, IRSN, Kaizen Solutions, KEODS, Kep Nuclear, LEYTON, Lynred, Marine Nationale, Matis Group, Maya Technologies, MBDA, Mediane Système, MGM TECHNOLOGY PARTNERS, Microoled, Millennium, National Instruments, Naval Group (ex DCNS), Novasparks, NXP, Oakridge, Omexon NDT, ON Semiconductor, ONET, OPEN, Orange, Orano, Ortec Engineering, PLDA, Radiall, Rio Tinto, Roche Diagnostics France, Rolls-Royce, SAFRAN, Saft Batteries, SAGEMCOM, SAPHIR QMTgroup, Schlumberger, SILEANE, Sogeti High Tech, SOITEC, Sopra Steria, STMicroelectronics, Styrel, Texas Instruments, TechnicAtome, Technip, Tefal - Groupe Seb, Teledyne E2V, Thales, TRANSVALOR S.A., Trimet, TRONICS MICROSYSTEMS SA, Ugitech, UP TECHNOLOGIES, Vulcain ingénierie, XFAB, XLIM, Yole Développement et avec la participation de l'UDIMEC.

Master2 WICS

Research Internship description on chamilo

https://chamilo.univ-grenoble-alpes.fr/courses/UGA002885



Select « Research Internship »

- Introduction of the WICS’s responsibles team
- Grenoble as a European Science Cluster
- Master2 WICS focus
  - Organization of studies
  - Different locations
  - Time schedule (Sylvain BOURDEL)
  - Research Lab Work (Jean-Daniel ARNOULD)
  - English or French as a foreign langage
  - Master’s internship (Jean-Marc Duchamp)
- **Master graduation**
- Practicals Details

Master2 WICS
Master Graduation

Université Grenoble Alpes

RULES:

- Any absence for sickness to lectures/lab sessions/ research lab work **must be justified**

- Justification to be sent to both:

phitem.master.eea@univ-grenoble-alpes.fr
estelle.lauga-larroze@univ-Grenoble-alpes.fr

Evaluation mode:

- continuous assessment / exams / lab session reports (check complete rules on chamilo)

Master2 WICS

Master Graduation, some rules

- **To validate your Master in 1st Session**:
  - Semester 1 & 2 must be validated independently (mark >10/20)
  - Each learning module must be validated, mark >7/20
  - Internship module requires a mark >10/20
  - All modules can compensate each other (except if mark <7/20 and internship) to reach a semester average mark >10/20.

- **2nd Session** in case you fail one/several modules in 1st session (i.e module <7/20, or semester average mark <10/20):
  - you will have to pass 2nd session exams

REMEMBER:

Master validation in 1st Session with good marks is HIGHLY recommended to increase your chance to get funding for PhD!

Master2 WICS

Master Graduation: official documents and official com

Official Documents from UGA (certificates)

All original documents (transcripts & certificates of achievement) on your DIGIPOSTE account.

You have to configure your DIGISPOSTE account (to access/create via Leo) ASAP

Process details on M2 WICS chamilo
chamilo.univ-grenoble-alpes.fr/courses/UGA 002885

- Introduction of the WICS’s responsibles team
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Université Grenoble Alpes

UGA Registration

Normally, you should have registered at UGA

If not, you should finalize your registration by the end of this week. The registration process will be closed after that!

Administrative registration : from 03 to mid september 2023
Appointment: Room multimédia A021 –Building A Michel Soutif (UFR PHITEM Saint-Martin-d'Hères)

Student card : from August 28 to Sept. 28
Appointment on the web PRERI https://preriweb.grenet.fr/preri/index.php?param=ReinsWeb-UGA
Room A008 - Bâtiment A Michel Soutif (UFR PHITEM Saint-Martin-d'Hères).

Master2 WICS

Practical details: Communication

Administration: Communication with the master EEA dpt

Angèle MELCHIOR (Master EEA administrative contact)

GreEn-ER building, Room 2D-002

phitem-master-eea@univ-grenoble-alpes.fr

Professional communication

From now, use your UGA e-mail address (RLW, internship..)

How to configure on your smartphone:
https://services-numeriques-etudiants.univ-grenoble-alpes.fr/menu-principal/applications/zimbra-messagerie-/

Professional networking

Connect to MasterM2 WICS_UGA

Université Grenoble Alpes

Documents for lectures/lab sessions

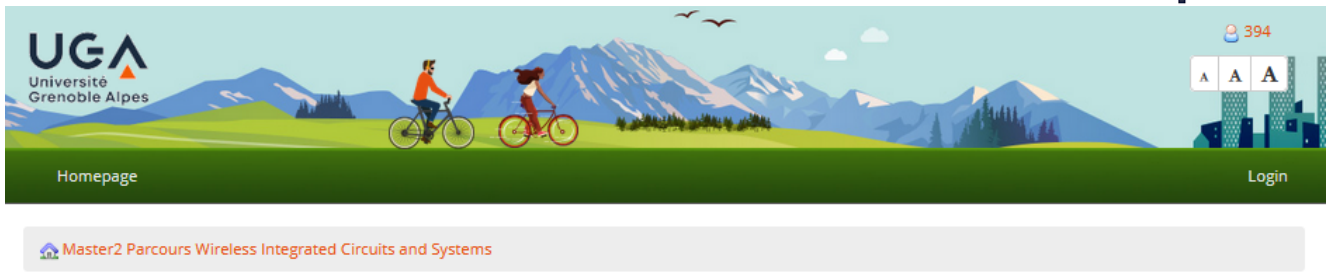
- Usually no printed documents
- Electronic documents to follow the lectures will be on Chamilo or sent by the lecturers

Master2 WICS

Practical details: prerequisite

Prerequisite knowledge (mandatory)

To prepare Module « Microwave circuits » and« RFiC » documents ai available on cloud



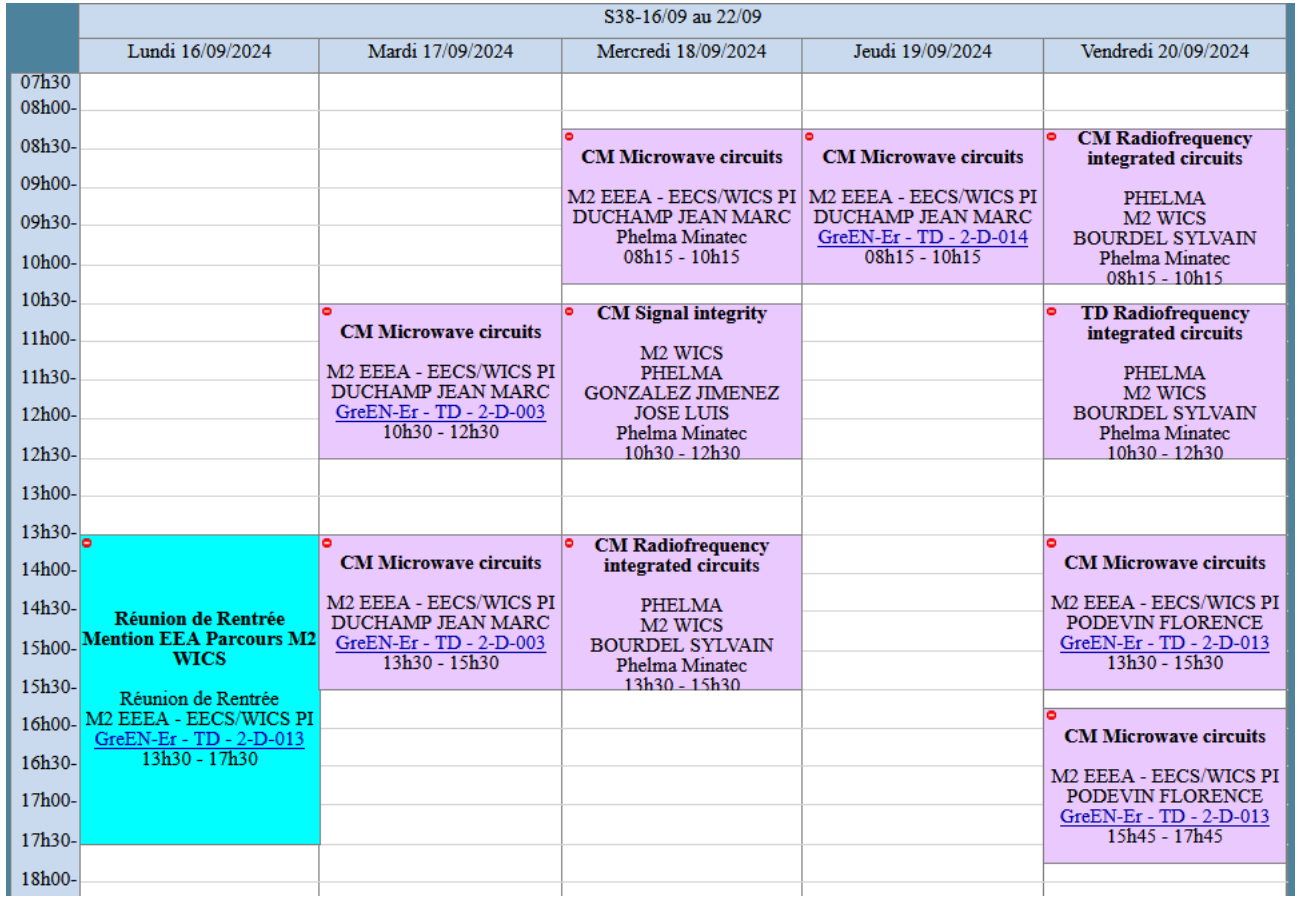
https://chamilo.univ-grenoble-alpes.fr/courses/UGA002885

Master2 WICS
Master Registration

Université Grenoble Alpes

Last comment but not the least….

Lectures start tomorrow!



S38-16/09 au 22/09

	Lundi 16/09/2024	Mardi 17/09/2024	Mercredi 18/09/2024	Jeudi 19/09/2024	Vendredi 20/09/2024
07h30					
08h00					
08h30			**CM Microwave circuits** M2 EEEA - EECS/WICS PI DUCHAMP JEAN MARC Phelma Minatec 08h15 - 10h15	**CM Microwave circuits** M2 EEEA - EECS/WICS PI DUCHAMP JEAN MARC GreEN-Er - TD - 2-D-014 08h15 - 10h15	**CM Radiofrequency integrated circuits** PHELMA M2 WICS BOURDEL SYLVAIN Phelma Minatec 08h15 - 10h15
09h00					
09h30					
10h00					
10h30		**CM Microwave circuits** M2 EEEA - EECS/WICS PI DUCHAMP JEAN MARC GreEN-Er - TD - 2-D-003 10h30 - 12h30	**CM Signal integrity** M2 WICS PHELMA GONZALEZ JIMENEZ JOSE LUIS Phelma Minatec 10h30 - 12h30		**TD Radiofrequency integrated circuits** PHELMA M2 WICS BOURDEL SYLVAIN Phelma Minatec 10h30 - 12h30
11h00					
11h30					
12h00					
12h30					
13h00					
13h30	**Réunion de Rentrée Mention EEA Parcours M2 WICS** Réunion de Rentrée M2 EEEA - EECS/WICS PI GreEN-Er - TD - 2-D-013 13h30 - 17h30	**CM Microwave circuits** M2 EEEA - EECS/WICS PI DUCHAMP JEAN MARC GreEN-Er - TD - 2-D-003 13h30 - 15h30	**CM Radiofrequency integrated circuits** PHELMA M2 WICS BOURDEL SYLVAIN Phelma Minatec 13h30 - 15h30		**CM Microwave circuits** M2 EEEA - EECS/WICS PI PODEVIN FLORENCE GreEN-Er - TD - 2-D-013 13h30 - 15h30
14h00					
14h30					
15h00					
15h30					**CM Microwave circuits** M2 EEEA - EECS/WICS PI PODEVIN FLORENCE GreEN-Er - TD - 2-D-013 15h45 - 17h45
16h00					
16h30					
17h00					
17h30					
18h00					

Any problem regarding the organization of your studies?
Please advise your Master Supervisors

THANK YOU!

Enjoy this year of Master2 WICS

Wireless Integrated Circuits and systems

UGA Master Supervisor: Estelle.LAUGA-LARROZE@univ-Grenoble-alpes.fr

INP Master Supervisor: Laurent.MONTES@Grenoble-inp.fr

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