

Welcome to Master2 WICS

Wireless Integrated Circuits and Systems

15th sept 2025

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 responsables 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 language
 - 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 :

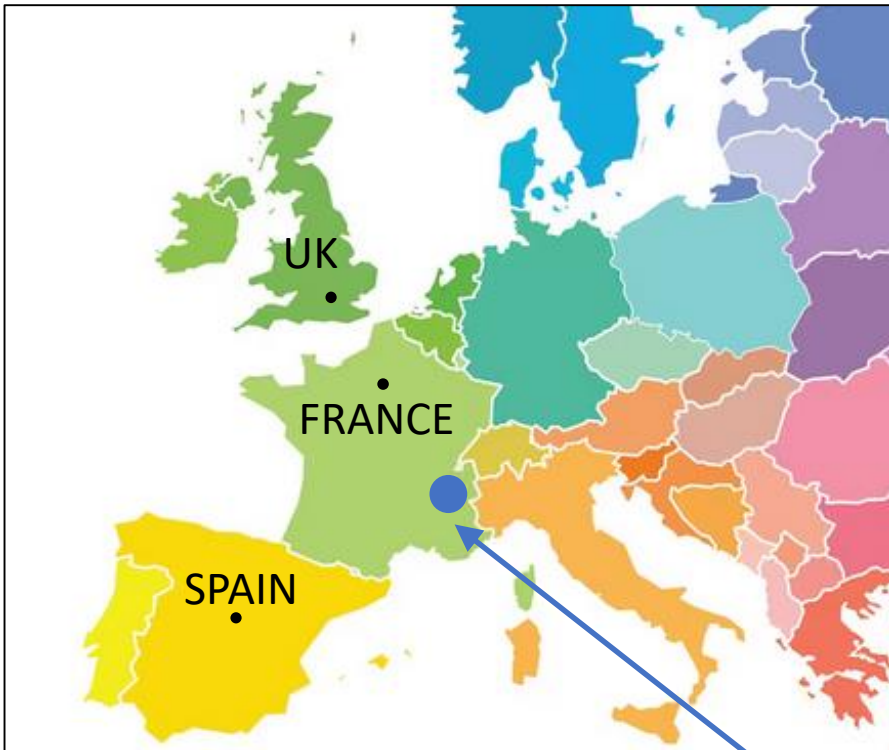
Angèle MELCHIOR (or Océane CLARET)

desk 2-D-02 GreenEr , 08:30-13:00,

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

« Capital of Alps »

Population: 160 000 hab (16th town of France)
6th/45* best French city to study in



Grenoble

European Science Cluster

GIANT

INNOVATION CAMPUS

Grenoble: European Science Cluster

Science is GIANT (Grenoble Innovation for Advanced New Technologies)



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 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, Schneider Electric...
- European and national facilities: IRT Nanoelec, CNFM...

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

ADMISSION in 2 nd Year of Master Degree

Students from french and foreign Universities



Phelma

Systèmes
électroniques
intégrés



FRENCH UNIVERSITY LEVEL

M2 WICS

prépa

Engineering School

Licence degree

Master deg.

Ph.D degree

**French
Bac-
calauréat
diploma**



Master Electronique, énergie électrique, automatique
2d year: Wireless integrated circuits and systems

Master2 WICS

An international program to accelerate your career

- 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.*

Master2 WICS

Educational program of the M2 WICS

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

Special lectures (speak about it later)

**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

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

All details can be found on:
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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

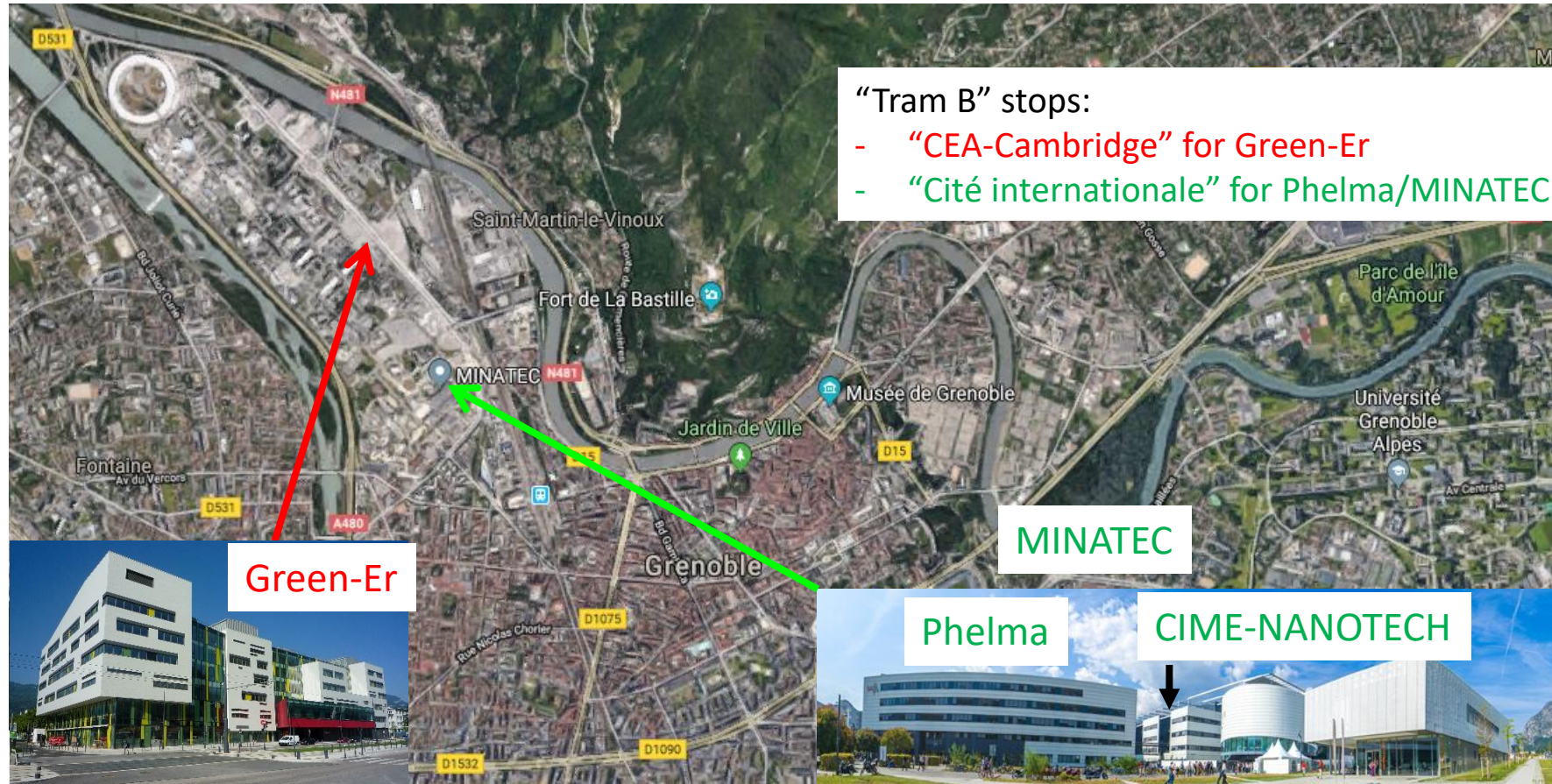
Teaching place

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	PHELMA - MINATEC
- Signal integrity		1	Written	10			
Integrated technologies & process of fabrication	3						
- Standard and alternative microelectronics technologies		2	Written	20		PHITEM - GREEN-ER CIME-NANOTECH	
- Clean room based fabrication		1	Written		8		
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

MINATEC

CIME-Nanotech



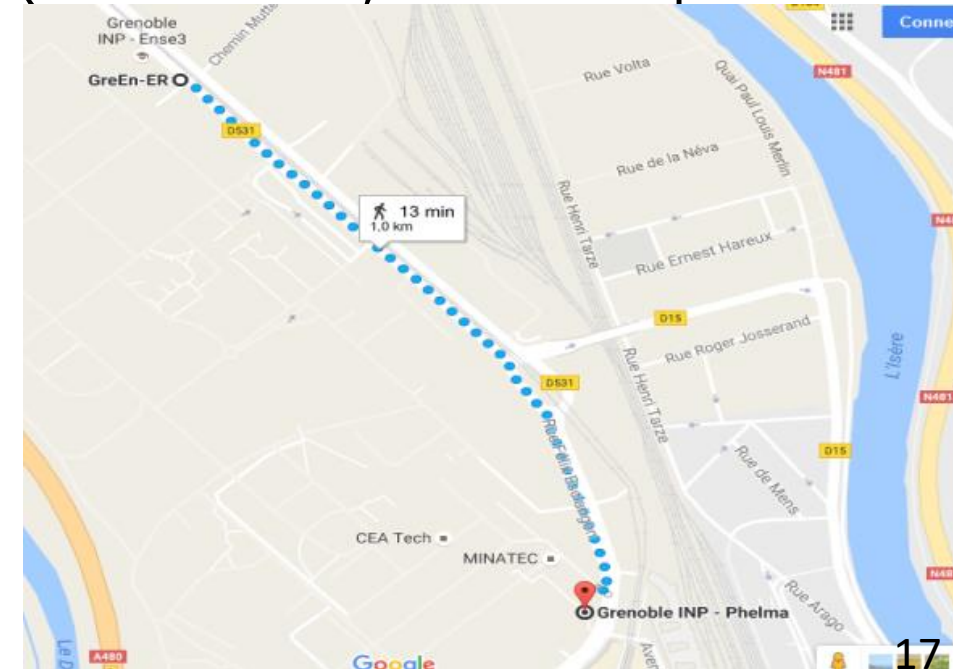
UGA
Université
Grenoble Alpes

- **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:**

- RF characterization (ground floor)
- Clean room facilities (1st floor)
- Integrated circuit design (3rd floor)



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Time schedule

=> How to see your time schedule?!

Master2 WICS

ADE tool for UGA time schedule



CALENDRIER Semaines

SEPTEMBRE 2023

L	M	M	V	S	D
28	29	30	1	2	3
4	5	6	7	8	9
11	12	13	14	15	16
18	19	20	21	22	23
25	26	27	28	29	30
2	3	4	5	6	7
8					

Aujourd'hui

RECHERCHE FR

WICS

LISTE DES RESSOURCES

Nom

- Etudiants
- Enseignants

Write WICS and
select search



CALENDRIER Semaines

SEPTEMBRE 2023

Aujourd'hui

RECHERCHE FR

WICS

LISTE DES RESSOURCES

Nom

- M2 EEEA - EECs/WICS
- M2 WICS
- M2 EFM
- M2 GC (IU-CDE-GCA)
- M2 GCER (Geomecha)
- M2 GM
- M2 MEEES (Earthquak)
- M2 MISTRE (Microélec)
- M2 Nano - IMNs (Ingér)
- M2 Nano - Nanophysik
- M2 Nano QIQE (Quant)
- M2 Nano- Biotechnolo
- M2 Nano-NanoChemis
- M2 Nano-Nanobiotech
- M2 Nano-Nanochemis
- M2 Nano-Quantum an
- M2 Nano-Soft Nano (F)
- M2 Phys - PMRHE-Phy
- M2 Phys - Astrophysi
- M2 Phys - PSC (Physi)
- M2 Phys Sciences Tr
- M2 Phys-MQ (Matière)
- M2 SIM

Options

CALENDRIER

Lundi 18/09/2023

Mardi 19/09/2023

07h30

08h00

08h30

09h00

09h30

10h00

10h30

11h00

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18h30

19h00

19h30

20h00

Réunion de Rentrée M2 EEEA - EECs/WICS PI DUCHAMP JEAN MARC GreEN-Er - TD - 2-D-006 13h30 - 16h00

CM Microwave circuits M2 EEEA - EECs/WICS PI DUCHAMP JEAN MARC GreEN-Er - TD - 2-D-009 10h00 - 12h00

CM Microwave circuits M2 EEEA - EECs/WICS PI DUCHAMP JEAN MARC GreEN-Er - TD - 2-D-009 13h00 - 15h00

Réunion d'entrée Mention EEA Parcours M2 WICS

Options

S37-11/09 au 17/09

S38-18/09 au 24/09

S39-25/09 au 01/10

S40-02/10 au 08/10

S41-09/10 au 15/10

S42-16/10 au 22/10

S43-23/10 au 29/10

S44-30/10 au 06/11

S45-06/11 au 13/11

S46-13/11 au 20/11

S47-20/11 au 27/11

S48-27/11 au 04/12

S49-04/12 au 11/12

S50-11/12 au 18/12

S51-18/12 au 25/12

S52-25/12 au 01/01

S53-01/01 au 08/01

S54-08/01 au 15/01

S55-15/01 au 22/01

S56-22/01 au 29/01

S57-29/01 au 05/02

S58-05/02 au 12/02

S59-12/02 au 19/02

S60-19/02 au 26/02

S61-26/02 au 05/03

S62-05/03 au 12/03

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S65-26/03 au 02/04

S66-02/04 au 09/04

S67-09/04 au 16/04

S68-16/04 au 23/04

S69-23/04 au 30/04

S70-30/04 au 07/05

S71-07/05 au 14/05

S72-14/05 au 21/05

S73-21/05 au 28/05

S74-28/05 au 04/06

S75-04/06 au 11/06

S76-11/06 au 18/06

S77-18/06 au 25/06

S78-25/06 au 02/07

S79-02/07 au 09/07

S80-09/07 au 16/07

S81-16/07 au 23/07

S82-23/07 au 30/07

S83-30/07 au 06/08

S84-06/08 au 13/08

S85-13/08 au 20/08

S86-20/08 au 27/08

S87-27/08 au 03/09

S88-03/09 au 10/09

S89-10/09 au 17/09

S90-17/09 au 24/09

S91-24/09 au 01/10

S92-01/10 au 08/10

S93-08/10 au 15/10

S94-15/10 au 22/10

S95-22/10 au 29/10

S96-29/10 au 05/11

S97-05/11 au 12/11

S98-12/11 au 19/11

S99-19/11 au 26/11

S100-26/11 au 03/12

S101-03/12 au 10/12

S102-10/12 au 17/12

S103-17/12 au 24/12

S104-24/12 au 31/12

S105-31/12 au 07/01

S106-07/01 au 14/01

S107-14/01 au 21/01

S108-21/01 au 28/01

S109-28/01 au 04/02

S110-04/02 au 11/02

S111-11/02 au 18/02

S112-18/02 au 25/02

S113-25/02 au 03/03

S114-03/03 au 10/03

S115-10/03 au 17/03

S116-17/03 au 24/03

S117-24/03 au 31/03

S118-31/03 au 07/04

S119-07/04 au 14/04

S120-14/04 au 21/04

S121-21/04 au 28/04

S122-28/04 au 05/05

S123-05/05 au 12/05

S124-12/05 au 19/05

S125-19/05 au 26/05

S126-26/05 au 02/06

S127-02/06 au 09/06

S128-09/06 au 16/06

S129-16/06 au 23/06

S130-23/06 au 30/06

S131-30/06 au 07/07

S132-07/07 au 14/07

S133-14/07 au 21/07

S134-21/07 au 28/07

S135-28/07 au 04/08

S136-04/08 au 11/08

S137-11/08 au 18/08

S138-18/08 au 25/08

S139-25/08 au 01/09

S140-01/09 au 08/09

S141-08/09 au 15/09

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S147-20/10 au 27/10

S148-27/10 au 03/11

S149-03/11 au 10/11

S150-10/11 au 17/11

S151-17/11 au 24/11

S152-24/11 au 01/12

S153-01/12 au 08/12

S154-08/12 au 15/12

S155-15/12 au 22/12

S156-22/12 au 29/12

S157-29/12 au 05/01

S158-05/01 au 12/01

S159-12/01 au 19/01

S160-19/01 au 26/01

S161-26/01 au 02/02

S162-02/02 au 09/02

S163-09/02 au 16/02

S164-16/02 au 23/02

S165-23/02 au 01/03

S166-01/03 au 08/03

S167-08/03 au 15/03

S168-15/03 au 22/03

S169-22/03 au 29/03

S170-29/03 au 05/04

S171-05/04 au 12/04

S172-12/04 au 19/04

S173-19/04 au 26/04

S174-26/04 au 03/05

S175-03/05 au 10/05

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S179-31/05 au 07/06

S180-07/06 au 14/06

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S183-28/06 au 05/07

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S196-27/09 au 04/10

S197-04/10 au 11/10

S198-11/10 au 18/10

S199-18/10 au 25/10

S200-25/10 au 01/11

S201-01/11 au 08/11

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S209-27/12 au 03/01

S210-03/01 au 10/01

S211-10/01 au 17/01

S212-17/01 au 24/01

S213-24/01 au 31/01

S214-31/01 au 07/02

S215-07/02 au 14/02

S216-14/02 au 21/02

S217-21/02 au 28/02

S218-28/02 au 05/03

S219-05/03 au 12/03

S220-12/03 au 19/03

S221-19/03 au 26/03

S222-26/03 au 02/04

S223-02/04 au 09/04

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S226-23/04 au 30/04

S227-30/04 au 07/05

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S247-17/09 au 24/09

S248-24/09 au 01/10

S249-01/10 au 08/10

S250-08/10 au 15/10

S251-15/10 au 22/10

S252-22/10 au 29/10

S253-29/10 au 05/11

S254-05/11 au 12/11

S255-12/11 au 19/11

S256-19/11 au 26/11

S257-26/11 au 03/12

S258-03/12 au 10/12

S259-10/12 au 17/12

S260-17/12 au 24/12

S261-24/12 au 31/12

S262-31/12 au 07/01

S263-07/01 au 14/01

S264-14/01 au 21/01

S265-21/01 au 28/01

S266-28/01 au 04/02

S267-04/02 au 11/02

S268-11/02 au 18/02

S269-18/02 au 25/02

S270-25/02 au 03/03

S271-03/03 au 10/03

S272-10/03 au 17/03

S273-17/03 au 24/03

S274-24/03 au 31/03

S275-31/03 au 07/04

S276-07/04 au 14/04

S277-14/04 au 21/04

S278-21/04 au 28/04

S279-28/04 au 05/05

S280-05/05 au 12/05

S281-12/05 au 19/05

S282-19/05 au 26/05

S283-26/05 au 02/06

S284-02/06 au 09/06

S285-09/06 au 16/06

S286-16/06 au 23/06

S287-23/06 au 30/06

S288-30/06 au 07/07

S289-07/07 au 14/07

S290-14/07 au 21/07

S291-21/07 au 28/07

S292-28/07 au 04/08

S293-04/08 au 11/08

S294-11/08 au 18/08

S295-18/08 au 25/08

S296-25/08 au 01/09

S297-01/09 au 08/09

S298-08/09 au 15/09

S299-15/09 au 22/09

S300-22/09 au 29/09

S301-29/09 au 06/10

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S308-17/11 au 24/11

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S317-19/01 au 26/01

S318-26/01 au 02/02

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S331-26/04 au 03/05

S332-03/05 au 10/05

S333-10/05 au 17/05

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S337-07/06 au 14/06

S338-14/06 au 21/06

S339-21/06 au 28/06

S340-28/06 au 05/07

S341-05/07 au 12/07

S342-12/07 au 19/07

S343-19/07 au 26/07

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S346-09/08 au 16/08

S347-16/08 au 23/08

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S356-18/10 au 25/10

S357-25/10 au 01/11

S358-01/11 au 08/11

S359-08/11 au 15/11

S360-15/11 au 22/11

S361-22/11 au 29/11

S362-29/11 au 06/12

S363-06/12 au 13/12

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S365-20/12 au 27/12

S366-27/12 au 03/01

S367-03/01 au 10/01

S368-10/01 au 17/01

S369-17/01 au 24/01

S370-24/01 au 31/01

S371-31/01 au 07/02

S372-07/02 au 14/02

S373-14/02 au 21/02

S374-21/02 au 28/02

S375-28/02 au 05/03

S376-05/03 au 12/03

S377-12/03 au 19/03

S378-19/03 au 26/03

S379-26/03 au 02/04

S380-02/04 au 09/04

S381-09/04 au 16/04

S382-16/04 au 23/04

S383-23/04 au 30/04

S384-30/04 au 07/05

S385-07/05 au 14/05

S386-14/05 au 21/05

S387-21/05 au 28/05

S388-28/05 au 04/06

S389-04/06 au 11/06

S390-11/06 au 18/06

S391-18/06 au 25/06

S392-25/06 au 02/07

S393-02/07 au 09/07

S394-09/07 au 16/07

S395-16/07 au 23/07

S396-23/07 au 30/07

S397-30/07 au 06/08

S398-06/08 au 13/08

S399-13/08 au 20/08

S400-20/08 au 27/08

S401-27/08 au 03/09

S402-03/09 au 10/09

S403-10/09 au 17/09

S404-17/09 au 24/09

S405-24/09 au 01/10

S406-01/10 au 08/10

S407-08/10 au 15/10

S408-15/10 au 22/10

S409-22/10 au 29/10

S410-29/10 au 05/11

S411-05/11 au 12/11

S412-12/11 au 19/11

S413-19/11 au 26/11

S414-26/11 au 03/12

S415-03/12 au 10/12

S416-10/12 au 17/12

S417-17/12 au 24/12

S418-24/12 au 31/12

S419-31/12 au 07/01

S420-07/01 au 14/01

S421-14/01 au 21/01

S422-21/01 au 28/01

S423-28/01 au 04/02

S424-04/02 au 11/02

S425-11/02 au 18/02

S426-18/02 au 25/02

S427-25/02 au 03/03

S428-03/03 au 10/03

S429-10/03 au 17/03

S430-17/03 au 24/03

S431-24/03 au 31/03

S432-31/03 au 07/04

S433-07/04 au 14/04

S434-14/04 au 21/04

S435-21/04 au 28/04

S436-28/04 au 05/05

S437-05/05 au 12/05

S438-12/05 au 19/05

S439-19/05 au 26/05

S440-26/05 au 02/06

S441-02/06 au 09/06

S442-09/06 au 16/06

S443-16/06 au 23/06

S444-23/06 au 30/06

S445-30/06 au 07/07

S446-07/07 au 14/07

S447-14/07 au 21/07

S448-21/07 au 28/07

S449-28/07 au 04/08

S450-04/08 au 11/08

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S463-03/11 au 10/11

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S501-26/07 au 02/08

S502-02/08 au 09/08

S503-09/08 au 16/08

S504-16/08 au 23/08

S505-23/08 au 30/08

S506-30/08 au 06/09

S507-06/09 au 13/09

S508-13/09 au 20/09

S509-20/09 au 27/09

S510-27/09 au 04/10

S511-04/10 au 11/10

S512-11/10 au 18/10

S513-18/10 au 25/10

S514-25/10 au 01/11

S515-01/11 au 08/11

S516-08/11 au 15/11

S517-15/11 au 22/11

S518-22/11 au 29/11

S519-29/11 au 06/12

S520-06/12 au 13/12

S521-13/12 au 20/12

S522-20/12 au 27/12

S523-27/12 au 03/01

S524-03/01 au 10/01

S525-10/01 au 17/01

S526-17/01 au 24/01

S527-24/01 au 31/01

S528-31/01 au 07/02

S529-07/02 au 14/02

S530-14/02 au 21/02

S531-21/02 au 28/02

S532-28/02 au 05/03

S533-05/03 au 12/03

S534-12/03 au 19/03

S535-19/03 au 26/03

S536-26/03 au 02/04

S537-02/04 au 09/04

S538-09/04 au 16/04

S539-16/04 au 23/04

S540-23/04 au 30/04

S541-30/04 au 07/05

S542-07/05 au 14/05

S543-14/05 au 21/05

S544-21/05 au 28/05

S545-28/05 au 04/06

S546-04/06 au 11/06

S547-11/06 au 18/06

S548-18/06 au 25/06

S549-25/06 au 02/07

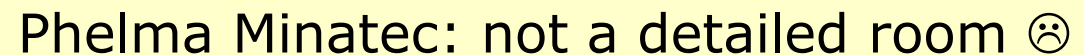
S550-02/07 au 09/07

S551-09/07 au 16/07

S552-16/07 au 23/07

S55

ADE tool from UGA



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 »

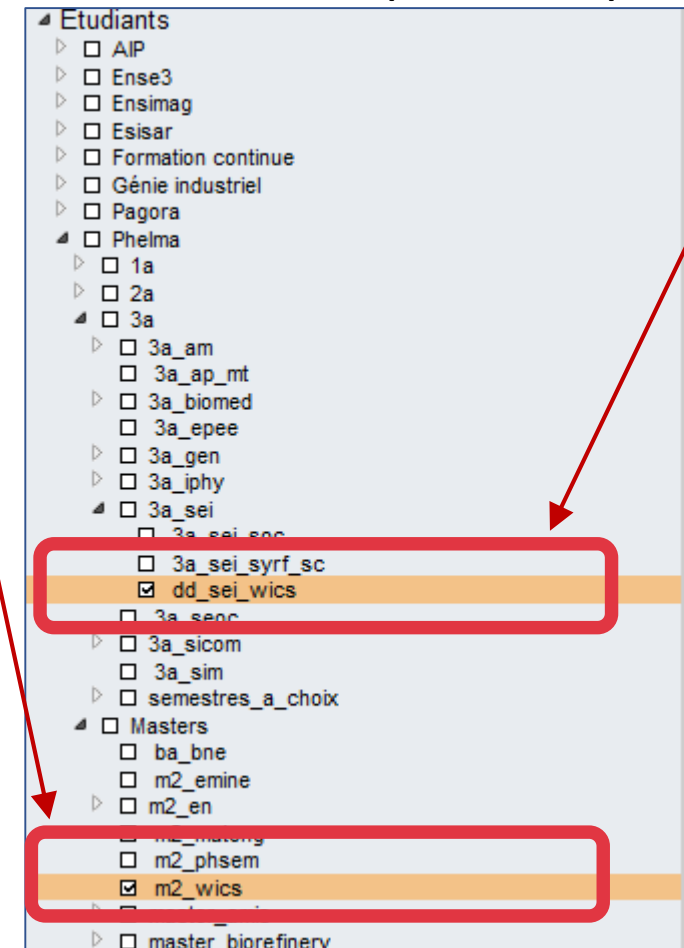
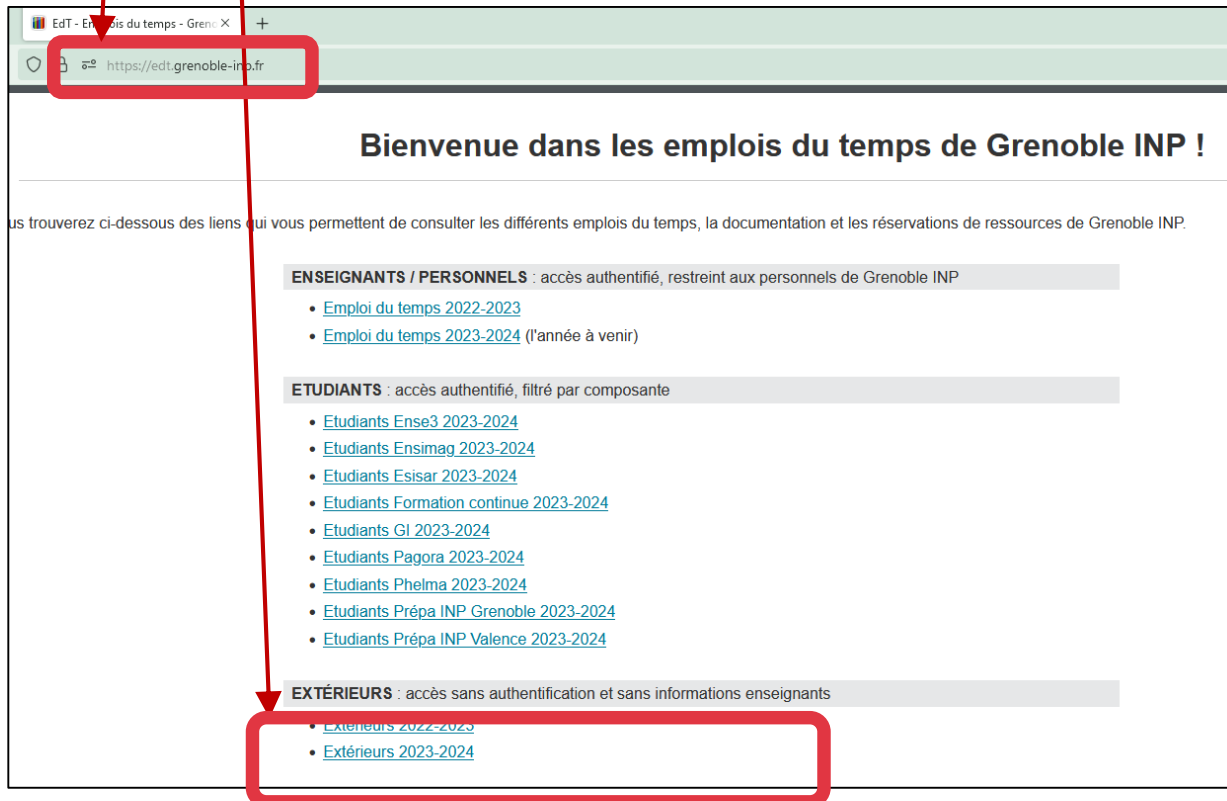
Master2 WICS

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!)

CALENDRIER		S38-18/09 au 24/09				
Semaines		Lundi 18/09/2023	Mardi 19/09/2023	Mercredi 20/09/2023	Jeudi 21/09/2023	Vendredi 22/09/2023
SEPTEMBRE 2023						
L M M J V S D						
07h30						
08h00-				CM/TD Analog and Mixed Systems for signal processing PHELMA M2 WICS Phelma Minattec 08h00 - 10h00		
11h00-			CM Microcircuits M2 EEEA - EECS/WICS PI DUCHAMP JEAN MARC GreEN-Er - TD - 2-D-009 10h00 - 12h00			
11h30-				CM Microwave circuits M2 EEEA - EECS/WICS PI DUCHAMP JEAN MARC GreEN-Er - TD - 2-D-013 10h30 - 12h30		
12h00-						CM Radiofrequency integrated circuits PHELMA M2 WICS BOURDEL SYLVAIN Phelma Minattec 10h45 - 12h45
12h30-						

ADE tool from INP

LISTE DES RESSOURCES						
Etudiants		Lundi 18/09/2023	Mardi 19/09/2023	Mercredi 20/09/2023	Jeudi 21/09/2023	Vendredi 22/09/2023
07h30-						
09h30-		Reunion Rentrée 3A & M2 m2_en_en_sc		CTD Anal. & mixed syst sig. (SEI S9) 3a_sei_s9_syrf_sc,dd_sei_wics_s9 Phelma-Minattec-M254		
10h00-		m2_en_esipap_sc				
10h30-		m2_en_juas_sc				
11h00-		Reunion Rentrée 3A 3a_syrf_sc,dd_sei_wics_s9 Phelma-Minattec-M202	Reunion Rentrée 3A 3a_syrf_sc,dd_sei_wics_s9 Phelma-Minattec-M203			
11h30-				Réunion Réunion PFE (S9) 3a_presents Phelma-Minattec-A016-Auditorium		CM Integrated radio int(SEI-S9 EMT-27) 2a_ap_mt,3a_sei_s9_syrf_sc,dd_sei_wics_s9 Phelma-Minattec-M256

- Introduction of the WICS's responsables team
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 - **Research Lab Work (Jean-Daniel ARNOULD)**
 - English or French as a foreign language
 - Master's internship
- Master graduation
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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, ..

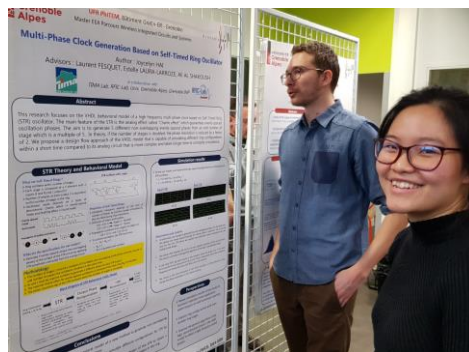
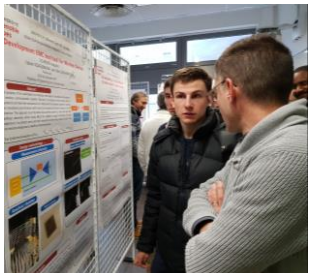
How to carry out the RLW?

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 **a 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)

Project	Topic	Supervisors	Contact	Lab
1	Design of miniaturized RF patch filters in PCB Technology	M.Wehti - 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	Imadeddine -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 slow	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 applications	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

1st Step: Subject choice -> **Select 5 subjects** among the list of proposed research topics
-> **Contact the supervisors** of these 5 subjects (e-mail + CV).
-> **Indicate to RLW responsible** your order of preference



2^d step: Subject assignment

Student and supervisors will be informed



3^d 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 preferred within two week**

-> Select 5 subjects among the list of research topics

-> Contact the supervisors (CV and motivation) of these 5 subjects.

Jean-Daniel Arnould will ask your preferred 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 »

WICS (Wireless Integrated Circuits and Systems) Master2		
The WICS (Wireless Integrated Circuits and Systems) Master is a Master degree focusing in integrated circuit and system design for Analog/Mixed/RF & millimeterwave applications. The WICS Master is taught in English by French and foreign teachers and/or researchers from universities and companies. It will allow preparing students for a career in both the international research community and the professional applications.		
General information	Administrative information	Teachers Area
Program		
Semester 9	Semester 10	
UE Radiofrequency Communication Systems -Wireless communications -Analog and Mixed Systems for Signal Processing -High Data Rate Wireline Systems UE Radiofrequency Integrated Circuits - Radiofrequency integrated circuits - Lab Work : design of integrated RF circuits UE Microwave Circuits - Microwave Passive Circuits - Lab Work : Design and Characterization of microwave passive circuits UE Antennas and Electromagnetic Compatibility - Antennas - Signal integrity Technologies & Process of Fabrication -native microelectronics technologies -fabrication UE Specialty Courses -Design for test -Radio Frequency Identification Technologies -Electrooptic sensors and bio electromagnetism -Tunable RF – Technologies and Applications UE Research Lab Work	UE Research Internship UE Research Lab Work (part II) -Oral defense One of two elective courses UE Français Langue Etrangère UE Anglais	



Homepage

 **Research Lab Work**

[Back to Master2 WICS](#)

Research Lab Work

The objective of the RLW is to train in research in assuring research by being immersed in a host laboratory.

1 RLW Description

A research topic will be proposed by a researcher supervising the student. The student will have to carry out va bibliographic study, theoretical study, modeling, simulations, characterization, ...

The presentation done about the RLW on the M2WICS open day is [here](#).

2 RLW Organization

2.1 RLW topics: presentation and assignments

- Introduction of the WICS's responsables team
- Grenoble as a European Science Cluster
- Master2 WICS focus
 - Organization of studies
 - Different locations
 - Time schedule
 - Research Lab Work
 - **English or French as a foreign language**
 - Master's internship
- Master graduation
- Practicals Details

Master2 WICS

English or French as foreign language

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 have to follow English course
- For foreign student, French as foreign language replace “English” (lectures on the campus)
- In all cases, you have to fill in the electronic form ASAP and give it to the reception desk (Room 2D-002) by the end of this week

- Introduction of the WICS's responsables team
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- Master graduation
- Practicals Details

Master2 WICS

Master's Internship

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, 23th at World Trade Center

Master WICS partner laboratories



Master2 WICS

Research Internship description on chamilo

"Phelma Job Fair"

SAVE THE DATE : October, 23th

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



En synergie avec le monde industrie

<https://phelma.grenoble-inp.fr/fr/entreprises/evenements-entreprises>

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>



WICS (Wireless Integrated Circuits and Systems) Master2	
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Select « Research Internship »



Homepage

[Research Internship](#)

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M2-WICS: Research Internship

Lenght : from 700 to 924 hours (i.e. 5 months to 6 months)

Period : from february to the end of september

Modality : an agreement has to be established and signed jointly by the hosting laboratory / company and Phitem (or Phelma for INP students)

Evaluation :

- A written report to submit at least 7 days before the oral defense (its date is set by the internship responsible);
- An oral defense;
- An overall assessments from the internship advisor;

INTERSHIP is compulsory (necessary to obtain the diploma)

Objectives:

The objective of the internship is to assure research by being "immersed" (except during covid-19 times....) in an research team during 6 months.

The intern must spend around 6 months (5 months at least) working in internship.

The internship can start from February the 1st .

Subject:

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

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](https://chamilo.univ-grenoble-alpes.fr/courses/UGA_002885)



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Master2 WICS

Practical details: registration



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 01 to mid september

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



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 are available on cloud



Master2 Parcours Wireless Integrated Circuits and Systems

Welcome on the space dedicated to

WICS (Wireless Integrated Circuits and Systems) Master2

The WICS (Wireless Integrated Circuits and Systems) Master is a Master degree focusing in integrated circuit and system design for Analog/Mixed/RF & millimeterwave applications. The WICS Master is taught in English by French and foreign teachers and/or researchers from universities and companies. It will allow preparing students for a career in both the international research community and the professional applications.

General information

Administrative information

Teachers Area

Prerequisite knowledge (mandatory)

- Microwave circuits
 - Master1 lectures of RF and mmW electronic
 - Chap1 to 7 of Pozar
- Electronic design
 - Master1 lectures of electronic design (chap1, chap2, chap3, chap4, chap5, chap6, TD1, TD2)
 - Roger_RFICDesign
 - Ellinger_RFICand Technologies

Master2 WICS

Master Registration

Last comment but not the least....

Lectures start tomorrow!

S30-15/09 au 21/09					
Lundi 15/09/2025		Mardi 16/09/2025		Mercredi 17/09/2025	
07h30					
08h00					
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19h00					

Lundi 15/09/2025		Mardi 16/09/2025		Mercredi 17/09/2025		Jeudi 18/09/2025		Vendredi 19/09/2025	
						CM Radiofrequency integrated circuits		CM Radiofrequency integrated circuits	
						PHELMA M2 WICS BOURDEL SYLVAIN Phelma Minattec		PHELMA M2 WICS BOURDEL SYLVAIN Phelma Minattec	
		CM Microwave circuits				CM Microwave circuits		CM Microwave circuits	
		M2 EEEA - EECS/WICS PI DUCHAMP JEAN MARC <u>GreEN-Er - TD - 2-D-006</u> 10h30 - 12h30				M2 EEEA - EECS/WICS PI DUCHAMP JEAN MARC Salle M- 254-Phelma Minattec 10h30 - 12h30		M2 EEEA - EECS/WICS PI ARNOULD JEAN DANIEL Salle Z-304 -Phelma Minattec 10h30 - 12h30	
Réunion de Rentrée Mention EEA Parcours M2 WICS		CM Microwave circuits		CM Microwave circuits					
Réunion de Rentrée M2 EEEA - EECS/WICS PI LAUGA LARROZE ESTELLE		M2 EEEA - EECS/WICS PI DUCHAMP JEAN MARC <u>GreEN-Er - TD - 2-D-014</u> 13h30 - 15h30		M2 EEEA - EECS/WICS PI DUCHAMP JEAN MARC Salle Z-304 -Phelma Minattec 13h30 - 15h30					
				CM Tunable RF - Technologies & Applications					
				M2 EEEA - EECS/WICS PI SERHAN ADAM AYSSAR <u>GreEN-Er - TD - 2-D-003</u> 15h45 - 17h45					

Master2 WICS

Master Registration

French as a foreign language Lectures Subscription

subscript° done		Nom	Prénom	plateforme de recrutement	French Lecture FLE	Anglais (only for those who french is fluent)
	Mme	ABDALLAH	Siwar	ecandidat		
ok	Mr	AKOUCH	Hussein	PEF		
ok	Mme	AZARVAN	BAHAR	ecandidat		
ok	Mme	AZNAGUE	CHAIMAE	PEF		
	Mme	DAO	Phuong Thao	PEF		
	Mr	DO	Ba Quang Huy	PEF		
ok	Mr	HASNAIN	Jawad	ecandidat		
	Mr	KHAN	Muhammad	ecandidat		
ok	M.	KIANI	Mehran	ecandidat		
	M.	MANZOOR	WAQAS	ecandidat		
ok	Mr	NGUYEN	Ngoc Tuan Huy	ecandidat		
ok	Mr	NGUYEN	Bui Thanh An	PEF		
ok	Mr	Revel	Merlin	ecandidat		
	Mr	RIAZ ABBASI	Uzam	ecandidat		
	Mr	RUKA	Aurel	DD Politecnico de Turin		
	Mme	SULTANA	Tanzina	ecandidat		
ok	M.	TASIU	HAYATUDEEN MUHAMMED	ecandidat		
ok	Mme	UMUHOZA	HONORINE	ecandidat		
	Mme	ATTAPHLA	Marise	DD INP Phelma		
	M.	DECROIX	Guillaume	DD INP Phelma		
	M.	DESCOMBES	Mathieu	DD INP Phelma		
	M.	MEGRET	Jules	DD INP Phelma		

Enjoy this year of Master2 WICS

Wireless Integrated Circuits and systems

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



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