

Master Electronique, énergie électrique, automatique

Parcours Electrical Engineering and Control Systems / WICS 2^e année

Présentation

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. It gives students the opportunity to learn advanced skill sets with projects led by high-level research units; the techniques and methodologies they will need to promote their research on an international level will be studied.

With a curriculum focusing on theoretical knowledge supported by practical applications, the WICS master prepares students for a career in both the international research community and the professional applications. As they finish their training, graduate students are fully ready to pursue a career in thriving fields such as the Internet of Things, future wireless communication systems, sensor networks, or medical applications.

Admission

- 2nd year of master WICS degree : The prospective student should have completed at least four full years of University studies (a first year of master's degree, bachelor or equivalent degree with 240 ECTS), have followed basic classes in Electronics and Radio Frequency and prove an English proficiency with CEFR (B2), TOEFL (IBT 87-109), IELTS (5.5-6.5), TOEIC (785-945) or equivalent. Students coming from English-speaking countries or/and who had a University curriculum in English are considered proficient enough. If you don't have the opportunity to take the test in your home University, an English test is organized during the first week of the classes, to check the level of everyone

- Double degree program : The prospective student should have completed at least three full years of University studies (180 ECTS) in the fields of Electronics or Applied physics and prove an English proficiency with CEFR (B1), IELTS (5.0), or equivalent as a minimum. Both certificates from an accredited institution and/or statements from the home institution are accepted.

Public continuing education : You are in charge of continuing education :

- if you resume your studies after 2 years of interruption of studies
- or if you followed training under the continuous training regime one of the previous 2 years
- or if you are an employee, job seeker, self-employed

If you do not have the diploma required to integrate the training, you can undertake a [validation of personal and professional achievements \(VAPP\)](#)

You want to apply and register?

Simply follow this [link](#) to get started

Infos pratiques :

- > Composante : UFR PhITEM (physique, ingénierie, terre, environnement, mécanique), Grenoble INP - Phelma (Physique, électronique et matériaux)
- > Lieu : Grenoble - Polygone scientifique

Contacts

Responsable pédagogique

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Programme

Master 2e année

Semestre 9

UE Radiofrequency Communication Systems	6 ECTS
UE Radiofrequency Integrated Circuits	6 ECTS
UE Microwave Circuits	6 ECTS
UE Antennas and Electromagnetic Compatibility	3 ECTS
UE Integrated technologies & process of fabrication	3 ECTS
UE Specialty courses	3 ECTS
UE Research lab work	3 ECTS

Semestre 10

UE Research internship	24 ECTS
UE Research lab work	3 ECTS
1 option(s) au choix parmi 2	
UE FLE	3 ECTS
UE Anglais - Master 2 - Semestre 10	3 ECTS