

M2: Advanced Communication Systems



Meryem Benammar

ISAE-SUPAERO, Department of
Electronics, Optronics and Signals (DEOS)



The master in a nutshell



About ...

- M2 mention RT of UF-TMP
- Co-accredited by 4 schools
- Courses: ISAE and ENSEEIHT

Key features

- State of the art communication systems
- Scientific communication

Tentative timeline

Start
06/10

Christmas
17/12

Conference
17/03

Technical
tracks

Research
project

Graduating
internship

- | | | |
|----------------|----------------------|------------------|
| • 6 ECTS (36h) | • 6 ECTS (36h) | • 30 ECTS |
| • Track PHY | • Scientific writing | • Technical work |
| • Track NET | • Conference | • Defense |

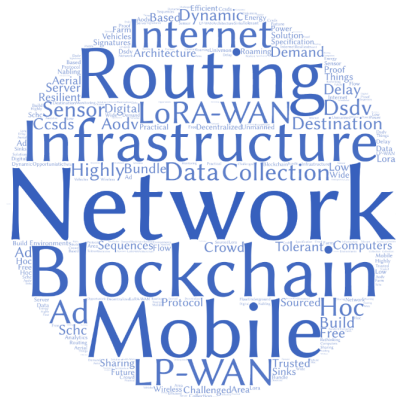
- Classes on thursday afternoons (from 2pm to 6pm)
- **Active learning:** 75% of practicals, projects and seminars !

Technical tracks

Track PHY	<ul style="list-style-type: none">• PHY1: Advanced waveform design (ISAE)<ul style="list-style-type: none">• Time-frequency selective channels• Multicarrier transmission: OFDM• Multiantenna transmission: MIMO• PHY2: Coding and security (ISAE + N7)<ul style="list-style-type: none">• Information theory• Physical layer security• Advanced error correction coding
Track NET	<ul style="list-style-type: none">• NET1: Delay tolerant networks (ISAE)<ul style="list-style-type: none">• Network simulation with Ommnet++• Proximity link lab• NET2: The edge of IoT (N7)<ul style="list-style-type: none">• Network Function Virtualization• Scientific presentations


Research projects

- **Projects:** proposed by professors
- **Groups:** maximum 2 students
- **Evaluation** scientific paper + conference







ACS contacts

Head of the program:

	Meryem Benammar	meryem.benammar@isae-supaero.fr
---	-----------------	---------------------------------

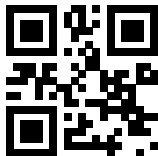
Liaison faculty members:

	José Radzik	jose.radzik@isae-supaero.fr
	Alain Pirovano	alain.pirovano@enac.fr
	Charly Poulliat (PHY)	charly.poulliat@enseeiht.fr
	Emmanuel Chaput (NET)	emmanuel.chaput@enseeiht.fr

More information

- **Website:** <http://acs.isae.fr>
- **Registration form:** <https://questionnaires.isae-supero.fr/index.php/548381?lang=en>
- **LMS webpage:**
<https://lms.isae.fr/course/view.php?id=3054>

Application deadline: 28-Sep-2022



Frequently Asked Questions

- Who delivers the diploma? \Rightarrow your school
- What track can I choose? \Rightarrow ITR-IN only NET
- When do I choose my track? \Rightarrow at the registration
- Registration fees? \Rightarrow around 150 eur (depends)
- Can I suggest a research projet? \Rightarrow yes, with a professor
- Graduating internship content? \Rightarrow a research component
- Technical track validation? \Rightarrow lab reports, presentations, ...
- Other activities? \Rightarrow Pot de début d'année, PhD qu'es aquo?

Any question ?