



# National Master's degree - MR14602A Sciences, Technologies, Health Telecommunications and Networks

## Introduction

To pursue your studies in a prestigious school in France, our two-year training program taught in English is an excellent choice as you can prepare a Master's degree in Sciences and Technologies in the area of Telecommunications and Networks, and at the same time explore French culture and history and integrate into a multicultural learning environment.

Our diploma is awarded upon successful completion of a specialized study program. The Master's degree in Sciences and Technologies in the area of Telecommunications and Networks opens a way to a professional career in an intercultural context or to further education towards the PhD degree. If your university is our partner, your study with us will lead to a double degree.

This two-year, full time master's program trains students to take responsibilities as managers or chiefs in multicultural projects at international enterprises in telecommunication section (manufacturers, operators) or other areas having a specific department in telecommunications.

## We are in figures

- 2014 Year of creation
- HCERES accreditation
- 18 nationalities (as of 2022)
- 21 graduates
- 100% got job after graduation
- 2 students followed PhD program
- 2 MoU with universities in China and Vietnam

## Contact

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[eeap.cnam.fr](http://eeap.cnam.fr)

## About Conservatoire national des arts et métiers (Le Cnam)

Le Cnam is a prestigious French institution with long-standing and deep scientific tradition. It was established in 1794, during the French Revolution, in the location of a medieval monastery. Today, thanks to its integrated network, le Cnam spreads higher adult education and life-long training to 54 700 students and auditors in France and abroad.

Le Cnam has 20 research laboratories and one Doctoral school in a variety of disciplines strongly oriented toward technological research.

## Requirement

The Master «Telecommunications and Networks» is open for students from foreign universities applying through Campus France or university partners of Cnam. Candidate must hold a four-year Bachelor's degree (or equivalent qualification) in telecommunications and networks.

## Admission procedure

Application: CV, letter of motivation, bachelor's degree, score record of bachelor's degree, two recommendations letters, English certificate equivalent to B1 (IELTS 5.0) for Master 1 and B2 (IELTS 5.5) for Master 2.



La certification qualité a été délivrée au titre des catégories d'actions suivantes:  
**ACTIONS DE FORMATION**  
**BILANS DE COMPÉTENCES**  
**ACTIONS DE VALIDATION DES ACQUIS DE L'EXPERIENCE**  
**ACTIONS DE FORMATION PAR APPRENTISSAGE**



Helping auditors with disabilities:  
[handi.cnam.fr](http://handi.cnam.fr)

## With us

### You master to:

- Analyze and compare technical offers of telecommunication networks
- Control and manage telecommunication/ network projects
- Conscious of safety and economical intelligence issues
- Develop protocols and architectures of professional networks
- Organize network development and network exploitation
- Organize maintenance, traffics follow-up and networks evolution preparation
- Implement digital processing algorithms

### You will become:

- Analyst
- Consultant
- Manager/Chief of project
- Researcher
- Telecommunications/Network expert
- Telecommunications/ Network engineer

## Why us ?

### Research and practical activities

We are managing 4 well-equipped laboratories: Cedric (Telecommunications and automatics), Esycom (Electronics, Communication system and Microsystem), LCM (Metrology) and Satie (Electrical systems). A new teaching studio is under construction with drones, electrical trains, autonomous vehicles, tracking cameras, high performed PC... This new studio is reserved specially for courses related to future transportation, and smart city including telecommunications and networks.

### Teaching quality

Professors and associate professors are not only giving lectures but also keep doing research at laboratories to update advanced technologies. Our programs are accredited HCERES, all engineering degrees are awarded Cti and EUR-ACE labels. We have just got Qualiopi certification, the highest commitment to administrative management quality.

### Strong anchorage with leading industrial or hi-tech companies

We encourage our students to do their internships or research with Alstom, SNCF, GE, Thales, Renault etc. to which we collaborate and establish solid contacts as we invite their experts to teach and organize conferences with us.

### Strong international network

China, Korea, Lebanon, Morocco, Russia, Tunisia, Vietnam are among some countries we are developing our training courses as well as sending our students for exchange programs.

### And beyond with this Master's degree:

- Eiffel scholarship for the best admitted students
- Opportunity to follow PhD's program
- Courses fully taught in English
- French course offer at the same time enjoy your daily French speaking environment in the heart of Paris
- Joint course with Sorbonne University
- Multicultural environment with international students from 5 other international master's programs in Cnam
- Housing assistance with Crous

## Partner universities



TRƯỜNG ĐẠI HỌC BÁCH KHOA HÀ NỘI  
HANOI UNIVERSITY OF SCIENCE AND TECHNOLOGY



ALSTOM

THALES

HUAWEI

amazon

Master's program Telecommunications and Networks		
Code	Intitulé	Crédits
<b>MASTER 1</b>		
RPUSEEJ1TO3	Mathematics of Random Signal	6
RPUSEEJ2TO3	Digital Signal Processing	4
RPUSEEJ3TO3	Introduction of signal processing	4
RPUSEEJ4TO3	Digital Communications (1)	4
RPUSEEJ5TO3	Digital Communications (2)	4
RPUSEEJ6TO3	Telecommunication Networks	6
RPUSEEJ7TO3	Networks - Complements & Applications	6
RPUSEEJ8TO3	Wireless Mobile Networks	6
RPUSEEJ9TO3	French as foreign language	6
RPUSEEK1TO3	English	6
RPUSEEK2TO3	Engineer Job	4
RPUSEEK3TO3	Company organization and Sustainability	4
<b>MASTER 2</b>		
RPUSEEK4TO3	Antenna and Diversity	3
RPUSEEK5TO3	Radiocommunications (1)	6
RPUSEEK6TO3	Radiocommunications (2)	4
RPUSEEK7TO3	Network Security	6
RPUSEEN4TO3	Network Evolutions with Virtualization & Automation	6
RPUSEEK9TO3	Internet of Things	2
RPUSEEJ9TO3	French	6
RPUSEEK1TO3	English	6
RPUSEEN7TO3	Scientific Communications	1
RPUAEE1STO3	Internship at Company	20