International Master Degree - MRI02 00A

Sciences and Technologies Engineering in Telecommunications and Networks

Introduction

To pursue your studies in a French engineering school, our two year training program taught in English is an excellent choice as you can prepare a Master Degree in Engineering in the area of Telecommunications and Networks, and at the same time explore French culture and history and integrate into a multicultural learning environment.

Recognized by the French Ministry of Higher Education and Research, our diploma is awarded upon successful completion of a specialized study program. The Master Degree in Engineering 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.

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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 100 000 students in France and abroad.
Le Cnam has 25 research teams and offers 36 doctoral programs in a variety of disciplines strongly oriented toward technological research.

Career opportunity

The International Master MR102 provides possibilities to start a career in line with the changing world of computer networks and telecommunications (fix or mobile). The convergence of communication networks that carry either voice or data and images is now operating. The migration of 3G and 4G mobile systems toward full IP transmission is one example. Industrial and telecommunications networks, telecommunications network operators, enterprises of the internal and external computer networks are hiring those able to understand such systems in their entirety.

In this prospect, the program offers courses in both high data rates communications and techniques of business networks. The former focuses on technological bases of transmission and propagation, while the latter focuses on mastering the techniques of business networks: hardware architecture and broadband transmissions, network protocols, databases access and exchange of multimedia data, network engineering, distributed systems.

Admission procedure

Application: Application form, CV or Resume, Statement of objectives, Two letters of recommendation, Transcripts, English proficiency exam scores, and Abstracts of published articles or conference presentations (optional).

Syllabus

	Code	Cours	Hours	Credit
	BLOCK M11: MATHEMATICS, SIGNAL PROCESSING AND TRANSMISSIONS – 300h			
MASTER 1	MAA 104	Mathematics	60 h	6 ECTS
	ELE 102	Digital Signal Processing	60 h	6 ECTS
	ELE 103	Basic of Signal Processing	60 h	6 ECTS
	ELE 112	Basic of Digital Transmissions (1)	60 h	6 ECTS
	ELE 113	Basic of Digital Transmissions (2)	60 h	6 ECTS
	BLOCK M12: NETWORKS– 180h			
	RSX 101	Networks and Telecommunications	60 h	6 ECTS
	RSX 103	Networks - Complements and Applications	60 h	6 ECTS
	RSX 116	Wireless Mobile Networks	60 h	6 ECTS
	BLOCK M13: GENERAL SKILLS –190h			
	FLE 001	French language	70 h	7 ECTS
	ENG 210	Engineer job	40 h	4 ECTS
	ANG 001	English language	40 h	4 ECTS
	USAL1E	Enterprise Organization	40 h	4 ECTS
MASTER 2	**BLOCK M21: TRANSMISSIONS – 150h**			
	ELA133	Radiocommunications (1)	30 h	3 ECTS
	ELA130	Antennas and Diversity	30 h	3 ECTS
	ELE208	Radiocommunica tions (2)	30 h	3 ECTS
	ELE209	Technology of Transmitters/Receivers (Conferences)	30 h	3 ECTS
	BLOCK M22: NETWORKS – 90h			
	INA130	Multimedia	30 h	3 ECTS
	RSX207	Business Networks Engineering	60 h	6 ECTS
	BLOCK M23: GENERAL SKILLS – 110h			
	FLE 001	French language	70 h	7 ECTS
	ANG 001	English language	40 h	4 ECTS
	BLOCK M24: PROJECT – 40h			
	BLOCK M25: PROFESSIONAL MISSION – 5 TO 6 months			

Internship from 5 - 6 months