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[Telecommunications engineering](#) [2]

The purpose behind the "**Telecommunications Engineering**" branch is to train state engineers in the fields of Telecommunications and Networks as well as Computer Science. Given the convergence between information technology and telecommunications, the purpose of the program is to equip engineers with scientific and technical skills in the two aforementioned fields, with particular focusing on the Telecom professions.

Branch coordinator :

Mme RIOUCH FATIMA

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Opportunities



The multidisciplinary training provided by the INPT, which is centered around innovation and creativity, gives the laureates intellectual and adaptive capacities that enable them to approach multiple professions:

- Software Development Engineer
- Network optimization and planning engineer
- Next Generation Mobile Network Engineer
- Design and development engineer
- Mobile Network Integration Engineer
- Mobile Services Development Engineer
- System and Network Engineer
- New Services Project Manager
- Telecom Project Manager
- Head of Multimedia Products and Services
- Transmission Engineer
- Test and Measurement Engineer
- Technical Sales Engineer
- Technical Support Engineer
- Network Maintenance Engineer

- Software Architect
- Telecommunications Equipment Architect
- Network Architect
- Product manager
- Network Engineer
- Microelectronics Design Engineer
- Embedded System Engineer
- M & O Engineer

Program

1st year	S1	Mathematics Telecommun The engineer Programming Waves and E Systems and Languages a
	S2	Modeling and Systems and Algorithms a Signal and C Electronics a Economy - M Languages a Project
2 nd year	S3	Transmission Signal and C

				Analysis and Telephony - TCP / IP Arch A module by Economy and Communicat
	S4	Option Choice 	ISMR¹	Information system Communication networks Multimedia Economy and Management III Languages and techniques of Co Project
			IRM²	Mobile Radio Systems I Communication networks Networks & Protocols Design & Planning Economy and Management III Languages and techniques of Co Project
			CS2E³	Digital and Mixed Design Analog and RF systems Embedded and mobile systems Economy and Management III Languages and Communication T Project
3rdyear	S5	Option 	ISMR	Multimedia and Security Information Systems Networks and Services Computer vision Multimedia Services Economy and Management IV

				Languages and techniques of communication V (def course of 2A)
				ISMR Innovation Project
			IRM	Mobile Radio Systems II
				Advanced Communications Techniques
				Network engineering
				Networks and Services
				Economy and Management IV
				Languages and techniques of Communication V (def year internship in English)
				IRM Innovation Project
			CS2E	VLSI Digital Systems
				Embedded systems
				Digital Signal Processing
				Advanced Transmission Techniques
				Economy and Management IV
				Languages and techniques of Communication V (def year internship in English)
				CS2E Innovation Project
		S6		Final project (PFE)
			ISMR¹	Multimedia and Network Services Engineering Option
			IRM²	Mobile Network Engineering Option
			CS2E³	Embedded Electronic Systems Design Option
			NB : Semester 3 Modules List (*) Module choice (Module constituted)	
				Advanced Java and Server Client
				Parallelism and DistributedAlgorithm
				Bus and communication protocol for embedded systems

			Renewable energies
			RF Systems for Satellite Communications & Measuring Tools
			Network Engineering Tools
			Hertzian beams
			Digital Switching Engineering
			Nonlinearities in high-speed networks
			Fiber Sensor and Sensor Technology
			Elements of Quantum Information
			Elements of Cryptography

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