

Objectives

After following our core courses in telecommunications and networks in the 1st year of master degree, the student makes a choice in 2nd year a major between « High Rate Technologies » and « Professional/ Business Networks ».

Core courses concern deterministic and statistic mathematical tools, digital signal processing, information theory, architectures and transmissions in telecommunications networks, mobile and wireless networks, broadband networks technologies, multimedia technologies, array processing.

The "High Rate Telecommunications" specialization concerns technologies which are often differentiated by the physical support (cable, optical fiber, radio communications with short, middle or long range), by computer science protocols of a transmission system, by the type of signal processing.... This specialization proposes to center the training program on the technological basis of transmissions, propagation and networks. Advanced courses concern high rate transmission technologies. It allows to develop a general competence to deal with the rapid evolution of networks. Students will be able to appreciate advantages and drawbacks of different technical offers. They will be able to develop materials and/or to discuss with specialists.

The "Professional Networks" specialization aims at training project managers having a transversal view on both network technologies offered by computer science specialists and technological technologies offered by operators and supply manufacturers. The aim is to imagine an optimized hardware architecture for the users and provide coherent services with the used technologies. The specialization proposes to center the training program on the mastery of professional/business network technologies: equipment architectures and high rate/broadband transmissions, network protocols, data base access and exchange of multimedia data, network engineering, distributed systems, network security. The students will be able to conceive equipment and professional networks. They will be able to specify and compare propositions, to manage installations, maintenance and evolutions of networks.

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