

EMNantes



OMTI

**Organization and Management
of Information Technology**



ECOLE DES MINES DE NANTES

The OMTI option



Introduce information and communication technologies (ICT) into business? Of course! But to truly take advantage of these new technologies, the changes they bring must be carefully managed. OMTI engineers have expertise in both organizations and managing IT-related projects. They understand business environments and operations, as well as the strategic and organizational challenges of ICT management.

> Career Opportunities

This option was created in 2000. The students are evenly distributed in three sectors, where they participate in the evolution of information systems and related reorganizations:

- **Consulting and service firms**
- **Banking and insurance**
- **Industrial companies or industrial consulting firms**

> Jobs for tomorrow and the future

In business, for example at the head of the organization or the IT department, all functions related to project ownership support, including expressing requirements, modeling solutions, drawing up specifications, defining changes during the project, and assisting users.

Project support, again, by making recommendations, designing and applying the user assistance plan, writing documentation, and anticipating and management social impacts.

In audits, organizational engineering and consulting, including overhauling business processes, optimizing business tools, informing and training the general management and end users.



Anne-France Kogan,
Program Head.

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“These projects are increasingly based on cascading subcontracting. There is a growing need for interface specialists, who are engineers with a global vision. Businesses often congratulate us, saying that our students don’t focus just on the technical aspects, but are able to grasp the other issues and challenges involved in the project.”



> The Program

The academic program of the option takes place over the two years of graduate school. It begins in the 1st year of specialization with advanced instruction in the field of information technologies (languages and translation, software engineering, systems and networks) and production (management of operations).

In the 2nd year, the students take classes involving theoretical concepts, knowledge of information systems as well as numerous case studies presented by professionals and former students of the option.

The students also do an “**option project**,” in which they provide solutions to an actual customer requirement, using a project-type organization. This gives them genuine experience in conducting an IT project, for example, creating a website for the Fondation Bethléem in Mouda, Cameroon, proposed by a former student of the option.

Finally, **the graduate project** is an engineering service that provides great added value to a business. The student identifies, acquires and implements skills, and then combines them in a new context.

For OMTI students, this may mean working on a project to streamline processes in a bank, migrating an information system, implementing customer relationship management solutions, or other junior consultant assignments.

The program is built around four skill sets that enable future engineers to understand and meet the challenges involved.



> Beyond Borders

Although our foreign partners do not emphasize the social sciences, OMTI students can attend an institution in our international network to complete a portion of their diploma requirements in a foreign university through credit transfer or double degrees.

Additionally, all the professors at the Social and Management Sciences Department are members of international research networks, in particular on ICT management and usage as related to business transformations.



> Double degrees



“Not just Cartesian”

Yann Belbeoc'h,
Cap Gemini

“My right hand man? No, the word is not too strong. Jean-Marc Fernandes quickly became my right hand man during his graduate study in 2005. At the time I was project manager at Cap Gemini, and he assisted me in all my daily activities, including working on consulting projects with me, selling consulting services, setting up supervision systems, meetings, presentations to the general management, organizing and structuring all the work.

He really concentrated his efforts on a major project we were doing for a banking group, which involved outsourcing their entire technical infrastructure. This assignment involved extremely specialized areas and we had to get help from experts. Above all, it affected the jobs of some 100 people, and Jean-Marc understood this highly political environment right away. I really appreciated his diversity and his ability to operate on a number of different levels. He did not provide mechanical responses, but handled all the viewpoints with a great maturity. He did not just use a Cartesian approach!

At the end of his internship, the project was well on its way to completion. The customer was extremely satisfied with the end result.”

> Research

The SSG department (Social and Management Sciences) supports the option through its research activities, provides instruction on implementing new technologies and systems (IT, certification, management tools) that transform organizations (businesses and markets). The SSG department studies the origin, the implementation and dynamics of these systems, as well the related transformation and adoption processes.



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