

Class Contents

The M.Sc. in Internet and Multimedia Engineering is a two-year program. It consists of 120 ECTS. It includes courses on telecommunication systems and networks, signal processing, applied electromagnetics, and other ICT disciplines. The program will be concluded with the defense of a M.Sc. thesis.

Among others, the following disciplines are included within the courses of the M.Sc. program. Most of them are associated with research laboratories currently active at the University of Genoa:

- Quality of Service and Performance Evaluation
- Array Signal Processing
- Cybersecurity
- Cognitive Telecommunication Systems
- Computer Graphics
- Digital Communications
- Mathematical Methods and Operations Research
- Mobile Communications
- Remote Sensing and Electromagnetic Propagation
- Image Processing and Recognition
- Internet Technologies: Architectures and Protocols



<http://www.ime.politecnica.unige.it>



Our Team is our Value

Contact Us

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**University of
Genoa**

**Polytechnic School of
Engineering and Architecture**



Master of Science Program (M.Sc.) in:

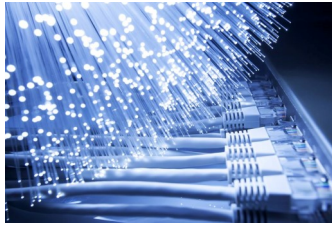


**INTERNET &
MULTIMEDIA
ENGINEERING**

The curriculum offers advanced education in Information and Communications Technology (ICT), with particular reference to signal processing (of voice, video, data, and multimedia signals), telecommunications systems and networks and networking applications. The program is centered on providing sound methodological and advanced design bases to produce high-level professionals in all areas of Telecommunications Engineering.

Studies

The Master Program in Internet and Multimedia Engineering (IME) has a strong characterization and orientation toward Internet Engineering on one side, and toward Signal Processing applied to Multimedia Systems, either networked or stand-alone, on the other. As the name says, the program is rooted in Engineering. The explicit reference to the Internet is due to its perception as “universal” networking paradigm, including access (fixed and mobile), metro/transport, and core networks. Similarly, the term “Multimedia” appears to be comprehensive and effective in recalling signal processing topics in a wide sense. In this context, the subjects taught aim at providing vision and knowledge tailored to the current and future technology evolution, where distributed and integrated communication and processing architectures are more often encountered. Attention has been devoted to the development of capabilities suitable for the design, management and operation of distributed multimedia applications, in mobility and over heterogeneous networks, with diverse levels of smartness and interactivity.



Career Prospects

The typical professional framework of a graduate from the M.Sc. program in Internet and Multimedia Engineering includes advanced development, design, planning, programming, innovation, production, and complex-systems management in the ICT area, encompassing large, medium, and small enterprises, public administrations, freelance activities, as well as pure and applied research. Based on current national



statistics, M.Sc. programs in Engineering are top-ranking with respect to job and occupation opportunities. According to 2015 *Almalaurea* data, the occupation rate (as defined by the Italian National Institute of Statistics—ISTAT) of second-level graduates in the area of Telecommunications Engineering after three years since graduation is about 93.8%. Occupation is mostly in the private sector (90.6%), with 23.4% in manufacturing and 75.2% in services.



Accommodation & Grants

The University of Genoa offers accommodation and grants to its students. Accommodation and grants are made available by ARSEL Liguria, the Regional Authority for School and University Services of the Liguria Region. Dedicated grants for IME students may be provided in each academic year. Two different kinds of scholarship may be available.

- Scholarships granted by ARSEL in favor of students enrolled at the University of Genoa.**

Students, who enroll in the program and are less than 35 years old, can apply to ARSEL's scholarships and to other benefits and services, including accommodation. Scholarship values range between approximately 3800 and 4800 € (including restaurant and accommodation services). Rankings for students enrolling in the first year of the M.Sc. program depend on yearly revenues. Rankings for students enrolling in the second year depend on the number of acquired credits (minimum 30 ECTS), the related grades, and the yearly revenues. Additional details can be found on our website at <http://www.ime.politecnica.unige.it/accommodation-grants>.
- Scholarships granted directly by the M.Sc. Program Committee.**

In past years, the Master Program council has issued a total of over 20 scholarships (through a competition based on merit, with value limited to approximately 3000 €/y) since its inception. The number and the entity of the scholarships, the rules to apply and the competition schedule are defined on a yearly basis.

