



Head Office

Via Amm. F. Acton, 38 - 80133 Naples
www.uniparthenope.it

Guidance and tutoring

Via Acton, 38-80133 Naples
Tel. 0815475136-248-617
<http://orientamento.uniparthenope.it>
orientamento.tutorato@uniparthenope.it



UNIVERSITY OF NAPLES
"PARTHENOPE"

Department of Engineering

COURSE LEADER

Prof. Maurizio MIGLIACCIO
m.m@uniparthenope.it

www.ingegneria.uniparthenope.it
<http://www.ingegneria.uniparthenope.it/ict/index.php>



WHERE WE ARE

Department of
ENGINEERING

Centro Direzionale-Isola C4-
80143 Napoli



A.Y. 2015-16



UNIVERSITY OF NAPLES
"PARTHENOPE"

GUIDANCE AND TUTORING

Department of
ENGINEERING

Master's Degree

Telecommunication Engineering
(Class LM-27)

www.uniparthenope.it

COURSE OVERVIEW

The aim of the Master's degree course in Telecommunication Engineering is to prepare well-trained graduates to operate in all Information and Communication Technology (ICT) areas, to promote and manage technological innovation, as well as to easily adapt to the dramatic changes in telecommunication. The course provides the cultural grounding, technical abilities and advanced skills pertaining to technologies, mechanisms, systems and infrastructures for the acquisition and the processing of information, their transport and use in applications and services. Students will be trained to plan telecommunication systems for digital communication, multimedia networks and communication systems. Moreover, they will be familiar with both the fundamentals of ICT Economy and the principles of professional ethics. In order to differentiate itself from other providers of services, the Italian ICT industry will need graduates with a good grounding in Information Engineering and Telecommunication Engineering, matched with the capacity to use diversified scientific tools.

CAREER PROSPECTS

Graduates can find employment with:

- companies operating in the field of planning, production and operation of devices, systems and infrastructures for the acquisition, transport and use of information in telematic applications;
- private and public providers of terrestrial and space telecommunication;
- air, land and naval traffic control agencies;

They can also work as teachers, self-employed professionals and consultants, and enrol in section A of the Professional Register of Engineers - Information Sector.

SYLLABUS

The methodological approach of the Master's Degree course in Telecommunication Engineering provides students with advanced training in Telecommunications, so as to allow them to solve in an innovative way complex or multidisciplinary problems. More specific skills pertain to theoretical and analytical design, simulation and performance evaluation of components and complex telecommunication systems, as well as advanced engineering systems, such as sensing systems for the advanced processing of mono- and multi-dimensional signals, optoelectronic sensing systems, and monitoring and control distributed systems.

SYLLABUS

Year I	ECTS
Mathematical Methods for Telecommunication	9
Microwaves	6
Antennas and Propagation for Mobile Communication	9
Telecommunication Networks and Telematics	9
Communication Devices	6
Information Theory and Coding	9
Year II	
Statistical Signal Processing	9
IT Security Systems	9
Remote Sensing and Electromagnetic Diagnostics	9
Internship	9
Elective module	6
Elective module	6
Final Exam	15
Elective modules - II Year	
Optoelectronics and Lab	6
Electromagnetic Compatibility for Biomedical Purposes	6
Satellite and Integrated Navigation Systems	6
Elements of Modern Physics	6
Elaboration of Biomedical Images	6