



UNIVERSITY OF NAPLES  
"PARTHENOPE"

Department of Engineering



COURSE LEADER  
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**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**

**First-level Degree Course**

**IT, Biomedical and Telecommunication  
Engineering  
(Class L-8)**

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**Head Office**

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## COURSE OVERVIEW

The Degree course in IT, Biomedical and Telecommunication Engineering aims to form experts in the field of applied Information and Communication Technology (ICT), able to promote and manage technological innovation, and to adapt to the dramatic changes in the sector of advanced technologies, such as Information Engineering, Biomedical Engineering, and Telecommunication Engineering.

## CAREER PROSPECTS

Graduates in IT, Biomedical and Telecommunication Engineering can operate in:

- 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;
- health agencies where biomedical engineers are needed;
- private and public providers of terrestrial and space telecommunication.

They can also work as self-employed professionals and consultants.

## SYLLABUS

The Degree Course in IT, Biomedical and Telecommunication Engineering lasts 3 years (for a total of 180 ECTS credits) and comprises 18 compulsory modules, 2 elective modules, and a final exam. The course of studies includes core disciplines such as Mathematics and Physics, distinguishing subjects, i.e., IT, Biomedics and Telecommunication, and other subjects pertaining to the information sector, such as Electronics, Applied Electromagnetism and Automation. In order to complete the student's cultural training, units of socio-economic subjects, Industrial Engineering and English language are also offered.

## SYLLABUS

Year I	ECTS
Algebra and Geometry	9
Calculus I	9
Calculus II	9
Business Economics	6
General Physics I	9
English language	6
Electronic systems	12
Year II	
Electromagnetic Fields	9
General Physics II	6
Introduction to Circuits	6
Probability and Random Phenomena	9
Signal Theory	9
System Theory	12
Basis of Biomedical Engineering	9
Year III	
Electric Communication	9
Microprocessor Systems Architecture	9
Electronics	12
Electronic and Biomedical Measurements	9
Propagation	6
Elective module	6
Elective module	6
Final exam	3