Mission
The program aims at preparing professional engineers able to design and maintain telecommunications services and infrastructures. The program grants a Master of Science called “Laurea Magistrale”, according to the Italian regulation, in Telecommunications Engineering.

Admission
The program is open to brilliant candidates with a first-cycle degree (Bachelor, Laurea, etc.) in telecommunications engineering, electronics engineering, computer engineering, electrical engineering, and other disciplines related to the ICTs. Enrollment is subject to the evaluation of the academic record.

Organization
The program lasts two years and has a workload of 120 ECTS, including classes, placement, and thesis. All activities are in English and the required language level is CEFR B2.

Career opportunities
Jobs are available with telecommunications operators and manufacturers, and in many other sectors of the society where telecommunications are critical, such as education, finance, energy, commerce, public services, healthcare, defense, environmental monitoring, surveillance, traffic control, robotics, space exploration, etc. The program also paves the way to doctoral and postgraduate research studies.

www.telecom.unicas.it

Master of Science in Telecommunications Engineering
**Mandatory Courses**

Information Theory  
Methods of Applied Mathematics  
Electromagnetic Field Theory  
Digital Signal Processing  
Antennas and Radiowave Propagation  
Instrumentation and Measurements for Communication Systems  
Advanced Communication Networks  
Operating Systems  
Electronics for Communication Systems  
Digital Communications  
Telecommunications Systems  
Microwave Theory and Devices

**Elective Courses**

Electromagnetic compatibility: modeling and measurements  
FPGA-based digital system design  
Antenna array design  
Radiowave propagation in urban environments  
Cryptography and network security  
Detection and estimation for radar applications  
Distributed programming and networking  
Parallel processing systems  
Identification and filtering

**Other activities**

Internship in enterprises, research centers, etc.  
Exchange programs in partner European universities  
Master Thesis (mandatory)

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Open to the world, ready to welcome it!