

DESCRIPTION AND AIMS

The programme, delivered by the **University of Palermo** (Italy), aims to train professionals with skills in the design, management and optimization of distributed electronics systems, telecommunications networks and new services such as emerging cellular networks and the Internet of Things (IoT). For the training of these figures, the course proposes:

- advanced skills in the field of electronics, namely the design of programmable electronic systems, electronic circuits for radiofrequency applications, instrumentation and measurements, digital processing and transmission systems;
- skills in reference technologies for modern telecommunication systems (from optical fibers to 5G/6G networks) and the new communication bands (from microwaves to Tera-Hertz);
- skills in the complete definition of systems and network services, with particular attention to protocols and security for IoT systems.



SUPPORTED DISTANCE LEARNING

The Master degree programme is entirely delivered in English and opened to foreign students.

All the courses of the programme are online, following the consolidated models for distance learning, with the integration of teaching provision (e.g. video lessons prepared by the teachers in asynchronous mode) and interactive teaching (accomplished largely through guided interactions with teachers/tutors and peers in).

The Learning Platform of Course Management System is Moodle, integrated with Microsoft Teams to provide a wide palette of Learning Management System (LMS) services.

COURSES

1st Year credits

Digital Signal Processing
Electronic Programmable
Systems 9
Lasers and Optical
Communications 6
Applied Electronics 9
Data Analysis 6
Electronics Instruments
and Measurements for
Telecommunications 9
Digital Communications
Antennas and Wireless
Systems 6 9

2nd Year credits

Wireless Networks and 5G 9
CyberSecurity 6
Microwave and TeraHertz
Communications 9
Educational activity
chosen by the student 9
Internships and training 6
Final dissertation 21

Total credits 120

KEEP IN TOUCH



CAREER OPPORTUNITIES

This Master degree programme gives access to the ICT Doctoral program of University of Palermo, and offers a wide range of career opportunities, such as:

ICT operations manager; IoT specialist; digital consultant; digital media specialist; network specialist; cloud computing specialist; information security manager; blockchain specialist; data scientist; system architect.

The Master degree's qualification is comparable through the European Qualifications Framework (EQF), so that the academic degree or diploma is recognized in the EU countries.