APPLICATIONS AND REQUIREMENTS

International candidates should hold a Bachelor Degree in Computer Engineering or Computer Science or equivalent degree.
Adequate knowledge of English is mandatory (level B2 or equivalent).

Candidates must apply online at applymscenglish. unipi.it.
Successful applicants must follow standard enrolment procedure of the University of Pisa.

More details at: https://www.unipi.it/index.php/enrolment.

computer.ing.unipi.it/ce-lm

Study Programme Director
Prof. Marco Avvenuti

ENROLMENT AND FEES

Enrolment instructions are available at matricolandosi.unipi.it.
Fees depend on the student's country of origin and vary from € 356 to € 2,556 per academic year.
Information on fee waivers and scholarships can be found at www.unipi.it/tuition-fees.

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UNIVERSITÀ DI PISA

MSc Programme in Computer Engineering

UNIVERSITÀ DI PISA

The University of Pisa (UNIPI) is a public institution composed of twenty departments, with high-level research centres in the fields of agriculture, astrophysics, computer science, engineering, medicine and veterinary medicine.

Established in 1343, UNIPI is one of the most prestigious higher education institutions in Italy and a modern centre for teaching and advanced research.
UNIPI actively pursues an internationalization policy to engage with students and researchers and to establish long-term partnerships with universities and public and private institutions from all over the world.

With more than 54,000 students, UNIPI offers a large number of degree programmes held in English and a variety of exchange programmes.

Study at the Department of Information Engineering

The Department of Information Engineering hosts around 100 professors and senior researchers, along with 100 PhD students and junior researchers.
The Department engages in research in several technological areas including micro and nanoelectronic systems, computer networks and embedded systems.

COME AND THRIVE
- Experience a rich scientific environment
- Enjoy a productive workplace
- Establish a network of professional contacts

PROGRAMME OVERVIEW

The MSc provides a solid and in-depth education that enables its graduates to design, develop, analyse and integrate highly complex and heterogeneous computer systems. The course includes a common set of learning activities, which cover methodological and engineering disciplines and completes the expertise in computer engineering. Students can then choose among three tracks, namely: Computer Systems and Networks (CSN), Cyber-physical Systems (CPS), and Cybersecurity (SEC). The first one advances further on large-scale computing and networking infrastructures, the second one provides students with expertise on embedded systems and the internet of things and, finally, the last one focuses on the design of secure systems and applications. The programme is structured as follows:

FIRST YEAR	ECTS
Performance Evaluation of Computer Systems and Networks	9
Large-Scale and Multi-Structured Databases	9
Electronics and Communications Systems	9
Computer Architecture	9
Intelligent Systems	6
Foundations of Cybersecurity	9
Cloud Computing (CSN)	9
Internet of Things (CPS)	9
Formal Methods for Secure Systems (SEC)	9
TOTAL	60

SECOND YEAR	ECTS
Distributed Systems and Middleware Technologies	6
Software Systems Engineering	6
Advanced Network Architectures and Wireless Systems (CSN)	9
Industrial Applications (CPS)	9
Network and System Hacking (SEC)	9
Mobile and Social Sensing Systems	6
Elective Course (free choice)	9
Final Examination (Thesis)	24
TOTAL	60

PROFESSIONAL PROSPECTS

Graduates are specialized professionals who easily find employment in private companies that develop IT solutions in the domains of networked systems and services, industrial automation and robotics, multimedia information processing, web-based applications and information systems and computer systems security, as well as in private companies and organizations, including public administration.