Two-year MSc in

ELECTRONIC ENGINEERING
**Overview**

The Master degree program in Electronic Engineering provides high-level education to graduate students with a Bachelor in electronics, communications and other scientific disciplines. Besides traditional courses, the syllabus includes other industry-oriented courses and opportunities for exposure to most recent advances in three different curricula: Microelectronics, Photonics, Space communication and sensing.

Microelectronics is intended to offer in-depth knowledge in integrated circuits and systems. Photonics focuses on laser and optical components technologies. Space Communication and Sensing is a new course combining electronic, high-frequency and remote sensing technologies with the booming world of space-related applications.

Job market for a graduate in Electronic Engineering involves many professional fields such as manufacturing industry specializing in electronic components, devices and systems, integrated circuits, optoelectronic components and devices instruments for telecommunications systems, industrial and measurement instrumentation. Graduates basically can work in any industrial sector that uses electronic, electro optics and electromagnetic technologies. They can also be employed in the service sector, both private and public and as freelancers. The program is taught in English.

**Subjects**

Students are going to study the following subjects and much more:

Microelectronics curriculum: integrated electronic devices, analog integrated circuits, design of integrated digital circuits, radio frequency microelectronics, electronic instrumentation and technologies, electronic circuits and systems for communications.

Photonics curriculum: optoelectronic devices, optical communications, nonlinear optics, electro-optical instrumentation, industrial laser design, quantum electronics.

Space Communication and Sensing: satellite data analysis, antennas and propagation, microwaves, remote sensing, hopping and spatial communication systems, processing of digital systems.

**Fees**

For Eu students fees are based on students’ family income. They range from about €160 to €4000 per year. For Non-EU students a flat rate is determined according to country of origin and range from €400 to €4500.

---

**Entry Requirements**

- 3-year Bachelor degree (or equivalent) in Engineering or similar background
- B1 level English proficiency

---

**Contacts & Information**

Faculty of Engineering
University of Pavia - Italy

- [mpee.unipv.eu](http://mpee.unipv.eu)
- [info.ee@unipv.it](mailto:info.ee@unipv.it)
- [apply.unipv.eu](http://apply.unipv.eu)