SALONE DELL'ORIENTAMENTO 2026

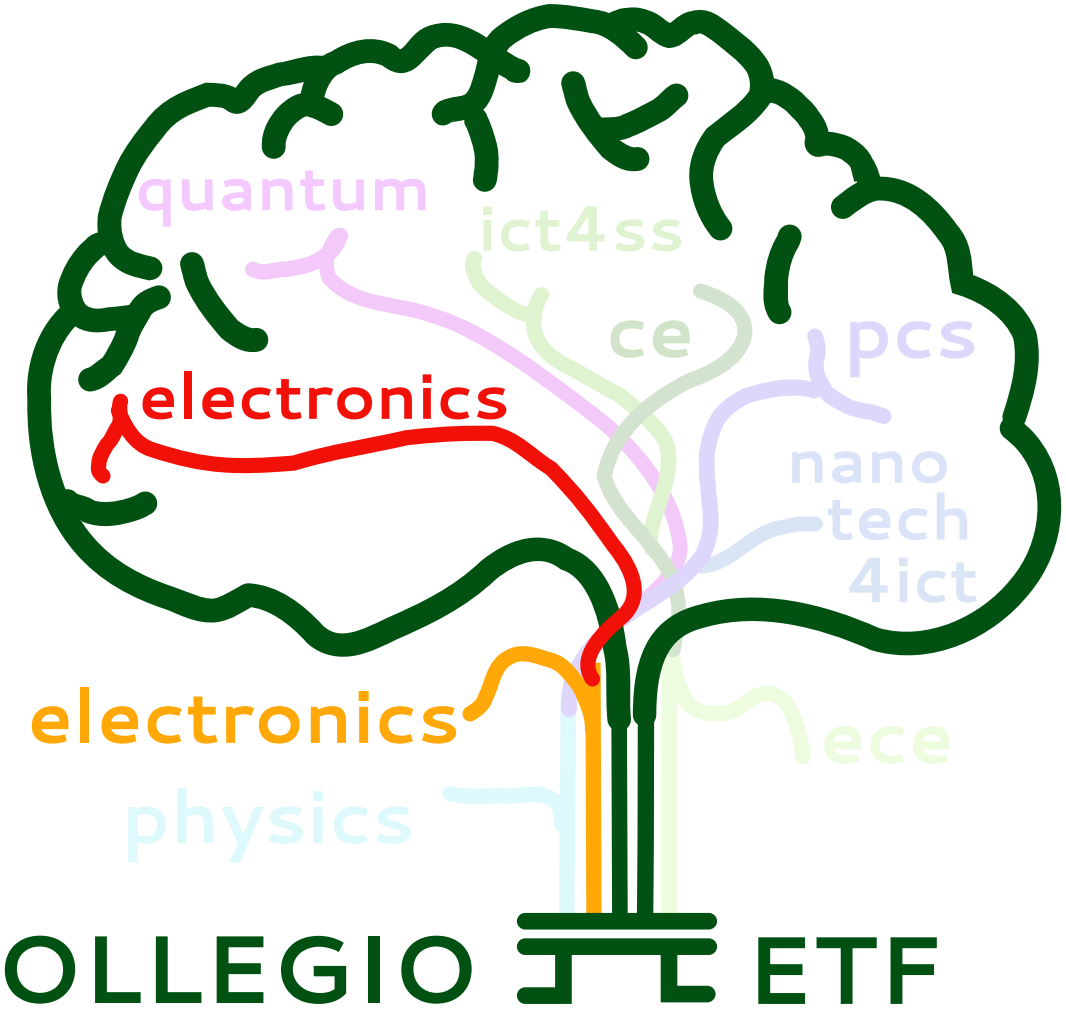
CORSO DI LAUREA MAGISTRALE

INGEGNERIA ELETTRONICA

ELECTRONIC ENGINEERING

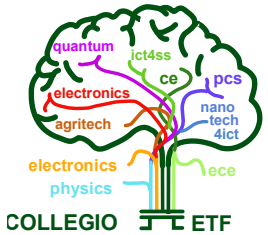
Politecnico di Torino

SCOPRI TUTTI I CORSI DI STUDIO A.A. 2026/27 www.polito.it



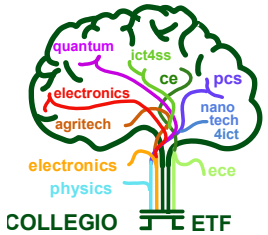
COLLEGIO ETF

Why Electronic Engineering ?



Electronic Engineering - opportunities

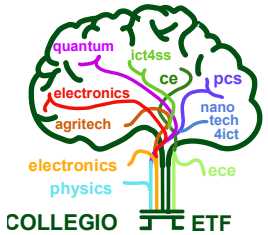
- Highly stimulating and active environment:
- 7different paths
- Double degree programs
- Erasmus programs
- Alta Scuola Politecnica
- Student Projects



Electronic Engineering

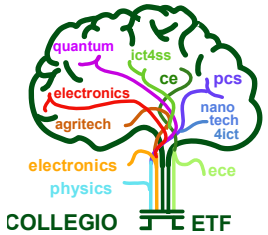
- We offer 7 different paths:

1. Electronics "core" (min. 56 CFU of "electronics")
   a) Devices and Technologies for Integrated Electronics and Optoelectronics
   b) Integrated Circuits, Systems, and Architectures
   c) Analog and power electronics design
2. Closer to other fields:
   a) Electronics for Industrial Applications (min. 32 CFU of "electronics")
   b) Embedded systems (min. 34 CFU of "electronics")
   c) Electronic micro and nanosystems (min. 50 CFU of "electronics")
   d) Radio Frequency Systems Design (min. 32 CFU of "electronics")



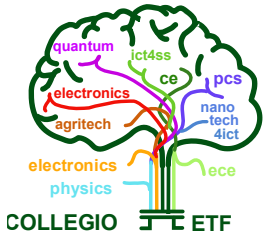
Devices and Technologies for Integrated Electronics and Optoelectronics

1° Year		2° year	
1° semester	2° semester	1° semester	2° semester
Digital Electronics or Sistemi Digitali Integrati	Analog and Telecommunications Electronics or Elettronica Analogica e di potenza	CAD of Semiconductor Devices	Free choice from Table
Sistemi di Misura e Sensori or Testing and certification	Micro and Nanoelectronic Devices	Integrated Systems Technology	Free credits
High Speed Electron Devices or Optoelettronica	Microwave Electronics	Photonic Devices	
Free choice from Table	Passive Optical Components	Thesis	



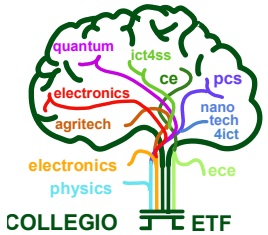
Microelectronics

1° Year		2° year	
1° semester	2° semester	1° semester	2° semester
Digital Electronics or Sistemi Digitali Integrati	Analog and Telecommunications Electronics or Elettronica Analogica e di potenza	Analog Integrated Circuits	Free credits
Sistemi di Misura e Sensori or Testing and certification	Microelettronica digitale(*)	Integrated Systems Technology	
Optoelettronica(*)	Sistemi Elettronici a Basso Consumo(*)	Radiofrequency Integrated Circuits	
Free choice from Table	Electromagnetism course from Table	Nanoelectronic Systems or Integrated Systems Architecture	Thesis



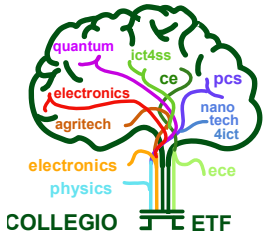
Analog and power electronics design

1° Year		2° year	
1° semester	2° semester	1° semester	2° semester
Digital Electronics or Sistemi Digitali Integrati	Elettronica Analogica e di potenza(*)	Analog Integrated Circuits	Advanced Electronic Drives
Sistemi di Misura e Sensori or Testing and certification	Microwave Electronics	Power Electronics	Free credits
High Speed Electron Devices or Optoelettronica	Radiating Electromagnetic Systems	Radiofrequency Integrated Circuits	
Free choice from Table		Electronic Systems Engineering	
		Thesis	



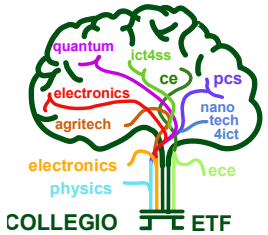
Integrated Circuits, Systems, and Architectures

1° Year		2° year	
1° semester	2° semester	1° semester	2° semester
Sistemi Digitali Integrati(*)	Analog and Telecommunications Electronics or Elettronica Analogica e di potenza	Integrated Systems Architecture	Operating Systems
Sistemi di Misura e Sensori or Testing and certification	Microelettronica digitale(*)	Integrated Systems Technology	Free credits
Optoelettronica(*)	Sistemi Elettronici a Basso Consumo(*)	Advanced antenna engineering or Codesign methods and tools or Advanced design for signal integrity and compliance	
Free choice from Table	Radar and Remote Sensing	Analog Integrated Circuits or Radio Frequency Integrated Circuits	Thesis



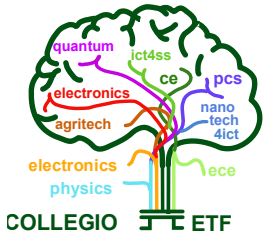
Electronics for Industrial Applications

1° Year		2° year	
1° semester	2° semester	1° semester	2° semester
Digital Electronics or Sistemi Digitali Integrati	Analog and Telecommunications Electronics or Elettronica Analogica e di potenza	Industrial Photonics	Advanced Electronic Drives
Sistemi di Misura e Sensori or Testing and certification	Mobile and Sensor Networks	Operating systems for Embedded Systems	Automation and Planning of Production Systems
Optoelettronica or High speed electron devices	Robotics	Free credits	
Free choice from Table	Guiding Electromagnetic Systems	Thesis	



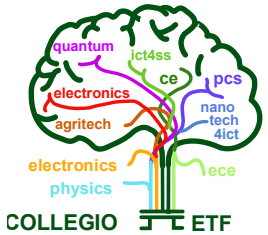
Embedded Systems

1° Year		2° year	
1° semester	2° semester	1° semester	2° semester
Computer Architectures	Microelectonic Systems	Integrated Systems Architecture	Free credits
Electronics for Emebedded Systems	Operating Systems	Electronic Systems Engineering	
Modeling and Optimization of Embedded Systems	Synthesis and Optimization of Digital Systems	Testing and Fault Tolerance	
Testing and Certification	Guiding Electromagnetic Systems	Free Choice from Table	Thesis



Electronic micro and nanosystems

1° Year		2° year	
1° semester	2° semester	1° semester	2° semester
Digital Electronics or Sistemi Digitali Integrati	Analog and Telecommunications Electronics or Elettronica Analogica e di potenza	Nanoelectronic Systems	
Sistemi di Misura e Sensori or Testing and certification	Introduction to MEMs and Bio-MEMs	Integrated Systems Technology	
High Speed Electron Devices or Optoelettronica	Microelettronica Digitale	Physics of technological processes/Design of microsystems	
Free choice from Table	Passive Optical Components	Free choice from Table	Thesis



Radio Frequency Systems Design

1° Year		2° year	
1° semester	2° semester	1° semester	2° semester
Digital Electronics or Sistemi Digitali Integrati	Analog and Telecommunications Electronics or Elettronica Analogica e di potenza	Advanced Antenna Engineering	Free credits
Sistemi di Misura e Sensori or Testing and certification	Digital Communications or Micro and Nanoelectronic Devices or Introduction to Space Systems	Power Electronics or Communication Systems	
High Speed Electron Devices or Optoelettronica	Microwave Electronics	Analog Integrated Circuits or Cloud computing and data center design lab	
Free choice from Table	Radiating Electromagnetic Systems	Radiofrequency Integrated Circuits	Thesis

La chat del collegio ETF

ETF-LM

To get infos about the 6 M.Sc. degrees:

Elettronica
Quantum Engineering
ICT for Smart Societies
Communications Engineering
Physics of Complex Systems
Nanotechnologies for ICT

https://t.me/etf_lm