



Faculty of Electronics Telecommunications and Information Technology (ETTI)

National University of Science and Technology
Politehnica Bucharest

POLITEHNICA Bucuresti

- Founded in 1818
- POLITEHNICA now
 - 21 Faculties (engineering, sports, etc) + 1 kindergarden + 1 Primary school + 1 News Channel
 - 3 campuses in Bucharest and 1 in Pitesti
 - >40k students (bachelor & master & phd)
 - 153 bachelor programs, 244 master programs , 21 areas for PhDs
 - >1000 companies offering internships
 - Part of International networks : AUF, EELISA,
 - >400 partnerships with international universities
 - >60 EU H2020 R&D grants, >20 ESA grants (2020-2024)



ETTI – Our mission

1. Educating students in:

Microelectronics and Applied Electronics

Telecommunications

Information Technology (CS)

2. Advancing Research and Development knowledge



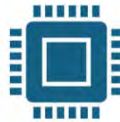
ETTI – bachelor study programs (4y)



Computer Science
(RO)



Applied Electronics
(RO+**EN**)



Microelectronics,
Optoelectronics and
Nanotechnologies (RO)



Telecommunication
Networks and Systems
(RO)



Telecommunications
Technologies and
Systems (RO+**EN**)

ETTI – bachelor study programs (4y)

English-taught Bachelor's programmes (4 years):

Applied Electronics

<https://fise-discipline.etti.upb.ro/plan/2/current>

Technologies and Telecommunication Systems

<https://fise-discipline.etti.upb.ro/plan/4/current>

ETTI – master programs (2y)



Advanced Wireless Communications (English)

Mobile communications(RO)

Management of services and networks (RO)

Advanced software technologies for communications (RO)

Telecommunications (RO)



Electric Vehicle Propulsion and Control (English)

Electronics and Applied Informatics (RO)

Electronics and Medical Informatics (RO)

Quality and safety engineering in electronics and telecommunications (RO)

Information and computer systems engineering (RO)

Advanced integrated technologies in car electronics (RO)



Advanced Computing in Embedded Systems (EN)

Advanced Microelectronics (EN)

Micro and nanoelectronics (RO)

Microsystems (RO)

Optoelectronics (RO)



Intelligent Systems and Artificial Vision (RO)

Advanced techniques for digital imaging (RO)

Multimedia Technologies in Biometrics and Information Security Applications (RO)

Multimedia technologies for the production of audiovisual and communications content (RO)

ETTI PhD Programs (4y)

- Areas – Electronics/ Telecommunications /Information Technology
- 60+ PhD Supervisors
- E.g.
 - Future communications networks (B5G/6G), Cybersecurity , IoT
 - Drone detection and Jamming / Software defined radio / Cognitive radio / Wireless communications
 - Antennas / GNSS / Radio propagation in complex media
 - Radar systems / Remote sensing / Digital Signal Processing
 - Computer vision / Semisupervised learning
 - Microelectronics / Wide band gap semiconductors devices / Readout and gate drive electronics circuits
 - Adaptive filtering / Image processing / Speech processing
 - Information theory / Artificial Intelligence and Big Data mining / Earth Observation
 - Power electronics / Computer-aided design of electronic circuits / Artificial Intelligence
 - Analog integrated circuits
 - Bio-signal processing / Artificial Intelligence / Advanced programming
 - VLSI CMOS analog integrated circuits / Analog signal processing / Voltage references
 - Statistical analysis of random processes and chaotic signals / Cryptography

ETTI – Research

- 7 research labs on Microelectronics, Optoelectronics and Nanotechnologies
- 1 research labs on Packaging
- 12 research labs on Telecom (including a full 5G SA lab)
- 10 research labs on Applied Electronics and Computer Science including AI
- 10 research labs together with Industrial partners
- 1 research lab on dual-use for drone detection



ETTI students & staff /y

BACHELOR – 2800+ STUDENTS

MASTER – 900 STUDENTS

PHD STUDENTS – 360 STUDENTS

MOBILITY STUDENTS (INCOMING) – 20

STAFF – 50

PROFESSORS – 150

Erasmus+ partnership proposal (ETTI / POLITEHNICA Bucharest)

- Scope: student mobility for studies (Bachelor / Master / PhD)
- Initial volume: ≥ 10 student-mobility months per academic year (flexible split across cycles; can be increased later)
- ISCED codes: 061x, 0688, 0710, 0713, 0714, 0719, 0788
- Main strengths: selective admission, strong practical skills, modern labs (incl. 5G SA & Future Networks/6G, microelectronics, AI), strong industry links

English-taught offer for incoming students (ETTI)

- **Bachelor (4 years)**
 - Applied Electronics
 - <https://fise-discipline.etti.upb.ro/plan/2/current>
 - Technologies and Telecommunication Systems
 - <https://fise-discipline.etti.upb.ro/plan/4/current>
- **Master (2 years)**
 - Advanced Wireless Communications
 - <https://fise-discipline.etti.upb.ro/plan/8/current>
 - Advanced Computing in Embedded Systems
 - <https://fise-discipline.etti.upb.ro/plan/13/current>
 - Advanced Microelectronics
 - <https://fise-discipline.etti.upb.ro/plan/14/current>
 - Electric Vehicle Propulsion and Control
 - <https://fise-discipline.etti.upb.ro/plan/18/current>
 - Cybersecurity (starting 2026)
- **PhD (4 years)**
 - Electronics / Telecommunications / Information Technology – wide range of topics; English supervision available



Thank You

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