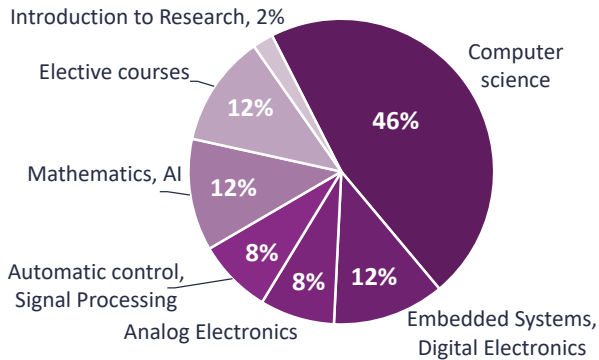




Engineering Program Specializations

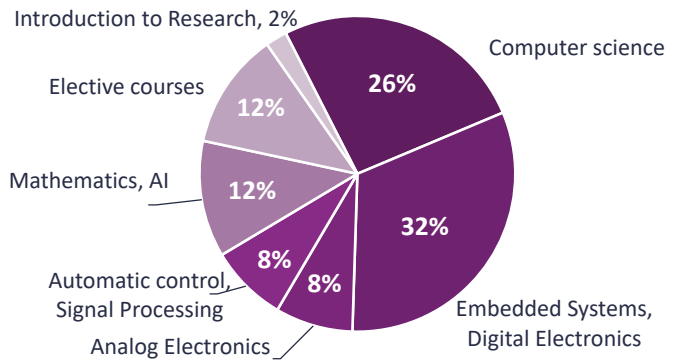
Secure Information Systems

- Software development: algorithmics, software engineering, language theory, compilation
- Networks: architecture, infrastructures, interconnections, services and applications
- Security: cryptography, network and systems security, software security, hardware/software security
- Operating systems: principles, architecture and administration



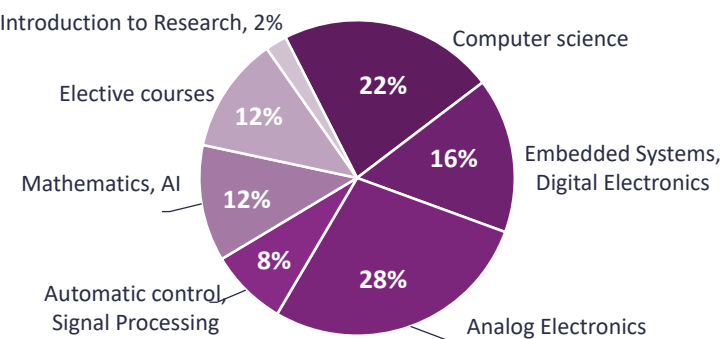
Secure Embedded Systems

- Algorithmics, Design, Program implementation
- Embedded development: from design to runtime
- System security: from hardware to software
- Hardware and software validation
- Embedded system design (languages, hardware architecture, FPGA design)



Communicating Embedded Electronic Systems

- Analog and embedded electronics
- Sensors and associated systems
- Digital electronics
- Hardware/software design
- Embedded computing
- Radiofrequency (RF) and communicating objects



Embedded Control-Command Systems

- Servo systems, control theory, advanced control
- Identification, analysis and simulation of dynamic systems
- Implementation on real-time embedded systems
- Design/Engineering of autonomous systems
- Distributed control of large-scale systems

