



**UNIVERSITÀ
DEGLI STUDI
DI TRIESTE**



Dipartimento di
**Ingegneria
e Architettura**

MASTER DEGREE IN

Computer engineering

**academic year
2026/2027**



Class LM-32
Computer Engineering



STUDY PROGRAMME 2026/2027 cohort

The Computer Engineering degree program has 3 Curricula:

⇒ **INFORMATICS**

⇒ **ELECTRONIC SYSTEMS AND INTERNET OF THINGS**

- Path “Electronic Systems”
- Path “Internet of Things”

⇒ **ROBOTICS AND ARTIFICIAL INTELLIGENCE**

The courses are classified based as follows (type of educational activity, “TAF”):

TAF A = base courses

TAF B = characterizing courses

TAF C = complementary courses

TAF D = elective courses

TAF E = final thesis

TAF F = other activities

CURRICULUM INFORMATICS

1st YEAR

COURSE	ECTS	DISC.	TYPE
Machine learning			
• Machine learning (1 sem)	6	IINF-05/A	B
• Evolutionary robotics (1 sem)	3	IINF-05/A	B
Advanced internet technologies (1 sem)	6	IINF-05/A	B
Software development methods (1 sem)	6	IINF-05/A	B
Cybersecurity (2 sem)	9	IINF-05/A	B
Optimization for artificial intelligence (1 sem)	6	INFO-01/A	C
Mathematical optimization (2 sem)	6	MATH-06/A	C

2nd YEAR

COURSE	ECTS	DISC.	TYPE
Cybersecurity Lab (1 sem)	6	IINF-05/A	B
Web application programming (1 sem)	9	IINF-05/A	B
Information retrieval and data visualization (2 sem)	6	INFO-01/A	C
Safe and Verified Software Systems (1 sem)	6	IINF-05/A	B
Data-driven systems engineering (1 sem)	9	IINF-05/A	B
Elective courses	12		D
Internship	6		F
Final project	24		E

ELECTIVE COURSES

In the study plan, the student must register for elective courses (TAF D, 12 CFU) that can be chosen from the following set.

The student cannot enroll in an elective course if s/he has already given the same or equivalent exam in previous courses of study.

- courses of curricula of this degree, different from the curriculum chosen by the student
- courses of a master degree in Engineering
- courses of the degree in Data Science and Artificial Intelligence
- courses of the degree in Physics
- courses of the degree in Mathematics

CURRICULUM ROBOTICS AND ARTIFICIAL INTELLIGENCE

1st YEAR (60 ECTS)

COURSE	ECTS	DISC.	TYPE
Machine learning			
• Machine learning (1 sem)	6	IINF-05/A	B
• Evolutionary robotics (1 sem)	3	IINF-05/A	B
Advanced internet technologies (1 sem)	6	IINF-05/A	B
Data-Driven digital systems			
• Data-Driven digital systems (1 sem)	6	IINF-04/A	B
• Digital systems (1 sem)	3	IINF-04/A	B
Cybersecurity (2 sem)	9	IINF-05/A	B
Control theory (2 sem)	9	IINF-04/A	B
Robotic manipulation (2 sem)	6	IIND-02/A	C
Mathematical optimisation (2 sem)	6	MATH-06/A	C

2nd YEAR (60 ECTS)

COURSE	ECTS	DISC.	TYPE
Computer vision and pattern recognition (1 sem)	6	IINF-04/A	B
Control of cyber-physical systems (1 sem)	6	IINF-04/A	B
Learning-based control (1 sem)	6	IINF-04/A	B
Mobile robots (2 sem)	6	IIND-02/A	C
Elective courses	12		D
Internship	6		F
Final project	24		E

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CURRICULUM ELECTRONIC SYSTEMS AND INTERNET OF THINGS

1st YEAR (60 ECTS)

COURSE	ECTS	DISC.	TYPE
Machine learning			
• Machine learning (1 sem)	6	IINF-05/A	B
• Evolutionary robotics (1 sem)	3	IINF-05/A	B
Advanced internet technologies (1 sem)	6	IINF-05/A	B
Data-Driven digital systems (1 sem)	6	IINF-04/A	B
Wireless networks and Internet of Things			
• Wireless networks (2 sem)	3	IINF-05/A	B
• Digital communication (2 sem)	6	IINF-05/A	B
Digital signal and image processing			
• Digital signal processing (2 sem)	6	IINF-01/A	C
• Digital image processing (2 sem)	3	IINF-01/A	C
Cybersecurity (2 sem)	9	IINF-05/A	B

2nd YEAR (60 ECTS)

COURSE	ECTS	DISC.	TYPE
Control Theory (2 sem)	6	IINF-04/A	B
Electronics for Wireless Networks (1 sem)	3	IINF-01/A	C
Embedded systems (2 sem)	6	IINF-01/A	C
Elective courses	12		D
Internship	6		F
Final project	21		E



PATH “ELECTRONIC SYSTEMS”

1st YEAR

COURSE	ECTS	DISC.	TYPE
Digital Electronics, devices and high speed			
• Introduction to Digital Electronics (2 sem)	3	IINF-01/A	C
• Devices and High Speed (2 sem)	6	IINF-01/A	C

2nd YEAR

COURSE	ECTS	DISC.	TYPE
Electronic Systems Design			
• FPGA (1 sem)	6	IINF-01/A	C
• Electronics Lab (2 sem)	3	IINF-01/A	C

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PATH “INTERNET OF THINGS”

2nd YEAR

COURSE	ECTS	DISC.	TYPE
Antennas (1 sem)	6	IINF-03/A	C
Optical and Air Networks			
• Air and Satellite Networks (1 sem)	6	IINF-03/A	C
• Microwave and Optical Networks (2 sem)	6	IINF-03/A	C

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**UNIVERSITÀ
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PROSPECTIVE STUDENT SUPPORT AND PUBLIC INFORMATION OFFICES

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COMPETENT OFFICES

For further info on the degree programmes

[Contact us](#)



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