

UNIVERSITÀ  
DEGLI STUDI  
DI PADOVA

# Curriculum: Information engineering Study plan

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# Study plan:

- Organization of educational offer
- Schedule and application
- Rules
- Schemes



The course units are grouped by type of activity and, within the various activities, by scientific disciplinary sectors (SSDs)

**Basic activities** (SSDs: Mathematics, computer science, physics, chemistry)

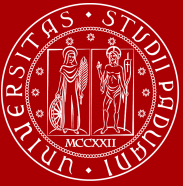
**Core activities** in SSDs

- Electronic Engineering
- Computer engineering
- Automation engineering
- Telecommunications engineering

**Integrative activities** (SSDs not included in the previous ones, e.g. Electric circuits etc.)

**Other activities** (not linked to an SSD: free choice 12 credits, B2 English 3 credits, final exam 3 credits)

For each activity and SSD there is a minimum and maximum number of credits that can be considered to reach the 180 credits needed for the degree.



## NOTE:

Those who are thinking to enroll in a master's degree in Italy must meet minimum requirements in terms of credits in SSD groups.

Each Italian University and each master degree has its own admission requirements.

These requirements can be found in the admission notices.

Foreign Universities might have similar requirements for admissions.

## Graduates in Information Engineering have all the requirements to enroll in any DEI master degree

(Bioingegneria\*, Computer engineering, Electronic engineering, Control system engineering, ICT for internet and multimedia).

\* Bioingegneria is taught in Italian, so in addition you must know Italian language.



At: <https://en.didattica.unipd.it/off/2023/LT/IN/IN2746/004PD>

You can find the  
info about all  
Course units

UNIVERSITÀ DEGLI STUDI DI PADOVA [Unipd.it](#) [Contacts](#) [IT](#) [EN](#) [Webmail](#) [Uniweb](#)

## Educational offer

Search

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[School of Engineering](#)

[AUTOMATION AND SYSTEM ENGINEERING](#)

Degree course track  
Information engineering  
IN2746/2023/004PD, A.Y. 2023/24

**Information on the Degree course track**

**Degree course** First cycle degree in INGEGNERIA DELL'AUTOMAZIONE E DEI SISTEMI IN2746, Degree course structure A.Y. 2023/24

**Academic Year** 2023/24

**Course units of the Degree course track**

Degree course code (?)	Course unit code	Course unit name	Credits	Year	Period	Lang.	Teacher in charge
IN2746	INQ1097761	CALCULUS 1 <a href="#">Details for students enrolled in A.Y. 2023/24</a>	12	1st Year	First semester (2023/24)	ENG	FRANCO RAMPAZZO
IN2746	INQ1097764	FOUNDATIONS OF COMPUTER SCIENCE <a href="#">Details for students enrolled in A.Y. 2023/24</a>	12	1st Year	First semester (2023/24)	ENG	ADRIANO FRANCESCO LUCHETTA
IN2746	INQ1097767	DIGITAL SYSTEMS <a href="#">Details for students enrolled in A.Y. 2023/24</a>	9	1st Year	Second semester (2023/24)	ENG	MARTA BAGATIN
IN2746	INQ1097760	LINEAR ALGEBRA <a href="#">Details for students enrolled in A.Y. 2023/24</a>	12	1st Year	Second semester (2023/24)	ENG	JAKOB SCHOLBACH
IN2746	INQ1097762	PHYSICS 1 <a href="#">Details for students enrolled in A.Y. 2023/24</a>	12	1st Year	Second semester (2023/24)	ENG	PAOLO UMARI
IN2746	INQ1097768	CALCULUS 2 <a href="#">Details for students enrolled in A.Y. 2023/24</a>	9	2nd Year	First semester (2024/25)	ENG	GIOVANNA CARNOVALE



First cycle  
degree courses

Second cycle  
degree courses

Single cycle  
degree courses

School of Engineering

AUTOMATION AND SYSTEM ENGINEERING

Course unit  
CONTROL SYSTEMS  
INQ1097775, A.A. 2025/26

Information concerning the students who enrolled in A.Y. 2023/24

#### Information on the course unit

<b>Degree course</b>	First cycle degree in INGEGNERIA DELL'AUTOMAZIONE E DEI SISTEMI IN2746, Degree course structure A.Y. 2023/24, A.Y. 2025/26
<b>Degree course track</b>	Information engineering [004PD]
<b>Number of ECTS credits allocated</b>	9.0
<b>Type of assessment</b>	Mark
<b>Course unit English denomination</b>	CONTROL SYSTEMS
<b>Department of reference</b>	Department of Information Engineering
<b>E-Learning website</b>	<a href="https://stem.elearning.unipd.it/course/view.php?idnumber=2025-IN2746-004PD-2023-INQ1097775-N0-DEI">https://stem.elearning.unipd.it/course/view.php?idnumber=2025-IN2746-004PD-2023-INQ1097775-N0-DEI</a>
<b>Mandatory attendance</b>	No
<b>Language of instruction</b>	English
<b>Branch</b>	PADOVA
<b>Single Course unit</b>	The Course unit can be attended under the option Single Course unit attendance
<b>Optional Course unit</b>	The Course unit can be chosen as Optional Course unit
<b>Course unit for Erasmus students</b>	The course unit can be attended by Erasmus+ and other exchange students



bring this page  
with you

#### Lecturers

<b>Teacher in charge</b>	PIETRO FALCO	<a href="mailto:pietro.falco@unipd.it">pietro.falco@unipd.it</a>	IINF-04/A
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#### ECTS: details

Type	Scientific-Disciplinary Sector		Credits allocated
Core courses	ING-INF/04	Automatics	9.0

#### Course unit organization

**Period** First semester  
**Year** 3rd Year  
**Teaching method** blended/mixed

Type of hours	Credits	Teaching hours	Hours of Individual study	Shifts
Lecture	9.0	72	153.0	No turn



# Schedule and application

- You can enroll in the exams only if they are in your approved study plan
- 1<sup>st</sup> and 2<sup>nd</sup> year exams were all mandatory (automatic study plan) but at 3<sup>rd</sup> year students must select exams, and a plan must be submitted
- It is possible to submit the study plan according to this calendar:

	From - to	Evaluation dates	Priority res-submission in case of rejection
1st period	06/11/2025 - 16/01/2026	The accademic committee will evaluate the study plans submitted between 06/11/25 and 05/12/25: <b>by 09/12/2025</b>	<b>from 10/12 to 12/12/2025</b>
		The accademic committee will evaluate the study plans submitted between 13/12/25 and 16/01/26: <b>by 19/01/2026</b>	<b>from 20/01 to 22/01/2026</b>
2nd period	16/03/2026 - 16/06/2026	The accademic committee will evaluate the study plans submitted between 16/03/26 and 16/04/2026: <b>by 17/04/2026</b>	<b>from 20/04 to 22/04/2026</b>
		The accademic committee will evaluate the study plans submitted between 23/04/26 and 16/06/26: <b>by 17/06/2026</b>	<b>from 18/06 to 20/06/2026</b>
3rd period	17/08/2026 - 17/09/2026	The accademic committee will evaluate the study plans submitted between 17/08/26 and 17/09/26: <b>by 18/09/2026</b>	<b>from 21/09 to 23/09/2026</b>



- The application is submitted on **Uniwed** (link inside the online booklet)
- The Teaching Board of the Degree evaluates the study plan according to the calendar and approves or rejects the plan indicating the reason.
- In case of a rejection the student can submit immediately a new plan; if so, the plan will be evaluated with priority; otherwise, it will be evaluated
  - at the end of the call, if the call is still open
  - in a new call.



## The general rules:

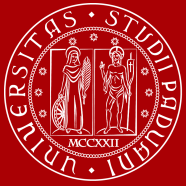
- **Mandatory courses/activities, 147 credits:** these activities cannot be replaced and they are already in your study plan
- **Restricted choice courses:**
  - 12 credits, 2 course out of a group of 3
  - 9 credits 1 course out of a group of 2
- **Free choice courses, 12 credits:** the course units chosen must be consistent with the Information Engineering training project



- For students enrolled in 2023/24 there will be 2 types of study plans:
  - IN2746INFA Automatic study plan
  - IN2746INFP Individual study plan

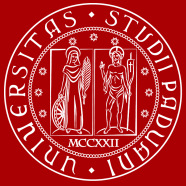


- IN2746INFA Automatic study plan
- IN2746INFP Individual study plan



# Automatic study plan: mandatory

Course Unit	CFU - CREDITS
Calculus 1	12
Foundations of computer science	12
English language B2	3
Linear algebra	12
Physics 1	12
Digital Systems	9
Data structures and algorithms	9
Calculus 2	9
Physics 2	9
Probability theory	9
Signal and systems	9
Electric circuits	6
Introduction to machine learning	6
Electronics	9
Telecommunications	9
Control Systems	9
Final exam	3



# Automatic study plan: restricted choices

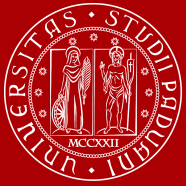
Choices to be taken within .

12 credits

Select 2 of these courses	
Algorithms in engineering	INF/01
Information transmission media	ING-INF/02
Systems and Models	ING-INF/06

9 credits

Select 1 of these courses	
Microcontrollers and DSP	ING-INF/01
Internet and security	INF/01

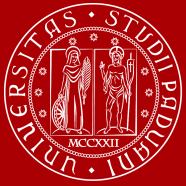


# Automatic study plan: free choices

**12 credits**; Choices in the list below are consistent and a study plan including them is automatically approved.

## **12 additional free-choice credits (12 CFU) - (regola 6)**

INQ1097774 ALGORITHMS IN ENGINEERING  
INQ1097840 MICROELECTRONICS LABORATORY  
INQ5109742 OPTICAL ENGINEERING LABORATORY  
INQ1097842 INFORMATION TRANSMISSION MEDIA  
INQ3103860 SYSTEMS AND MODELS  
INQ1097843 MICROCONTROLLERS AND DSP  
INQ0091883 INTERNET AND SECURITY  
INQ1097838 COMPUTER ENGINEERING LABORATORY  
INQ1097839 INTERNET AND MULTIMEDIA LABORATORY  
INQ1097858 SIGNALS AND MEASUREMENT LABORATORY  
INQ1097824 CONTROL SYSTEMS LABORATORY

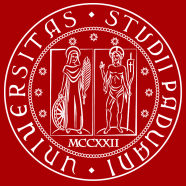


- IN2746INFA Automatic study plan
- IN2746INFP Individual study plan



# Individual study plan: mandatory

Course Unit	CFU - CREDITS
Calculus 1	12
Foundations of computer science	12
English language B2	3
Linear algebra	12
Physics 1	12
Digital Systems	9
Data structures and algorithms	9
Calculus 2	9
Physics 2	9
Probability theory	9
Signal and systems	9
Electric circuits	6
Introduction to machine learning	6
Electronics	9
Telecommunications	9
Control Systems	9
Final exam	3



# Individual study plan: restricted choices

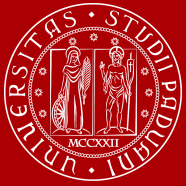
Choices to be taken within .

12 credits

Select 2 of these courses	
Algorithms in engineering	INF/01
Information transmission media	ING-INF/02
Systems and Models	ING-INF/06

9 credits

Select 1 of these courses	
Microcontrollers and DSP	ING-INF/01
Internet and security	INF/01



# Individual study plan: free choices

## At least 12 credits

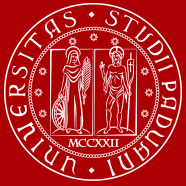
### **ENG PRO 12 additional free-choice credits (6 - 18 CFU) - (regola 7)**

INQ1097774 ALGORITHMS IN ENGINEERING  
INQ1097840 MICROELECTRONICS LABORATORY  
INQ5109742 OPTICAL ENGINEERING LABORATORY  
INQ1097842 INFORMATION TRANSMISSION MEDIA  
INQ3103860 SYSTEMS AND MODELS  
INQ1097843 MICROCONTROLLERS AND DSP  
INQ0091883 INTERNET AND SECURITY  
INQ1097838 COMPUTER ENGINEERING LABORATORY  
INQ1097839 INTERNET AND MULTIMEDIA LABORATORY  
INQ1097858 SIGNALS AND MEASUREMENT LABORATORY  
INQ1097824 CONTROL SYSTEMS LABORATORY

Choices in this list are consistent and a study plan including them will be certainly approved.

### **ENG PRO free-choices offerde by other degree courses (6 - 18 CFU) - (regola 8)**

Choices of other units (within those offered @Unipd) will be subject to Board approval.



More info:

DEI student office: [segredei@dei.unipd.it](mailto:segredei@dei.unipd.it)

<https://stem.elearning.unipd.it/mod/book/view.php?id=234&chapterid=2109>



The activity FINAL EXAM (mandatory) is worth **3 credits**.

It consists in the development, reporting and presentation of:

- a brief technical research work on a topic related to the degree and assigned by a professor (the supervisor);
- a small project (also comprehensive of an experimental/laboratory/numerical/theoretical work) developed under the supervision of a professor (the supervisor);



## Steps:

- 1) Contact professors to identify a supervisor and a topic
- 2) Supervisor and topic must be inserted on Uniweb
- 3) Develop the work (in some cases a brief report) and a ppt presentation
- 4) When all other exams have been passed, you can present your work to a Committee (there are 4 sessions per year, indicatively: July, September, November, March)

Contact: [segredei@dei.unipd.it](mailto:segredei@dei.unipd.it)



Internships are not part of your degree (**NO CREDITS**)

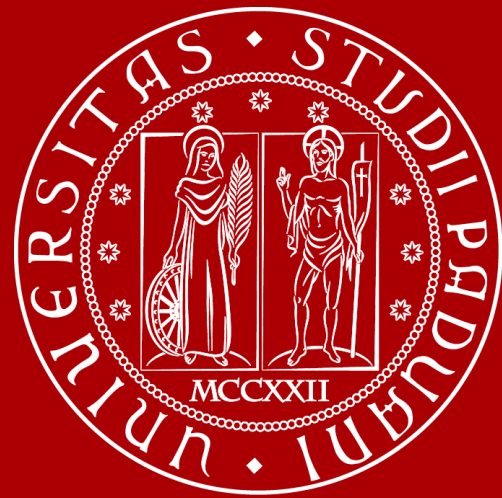
Yet, you can do an internships:

- During your bachelor (not recommended)
- After getting your bachelor degree

Internships must be allowed by the University and an agreement between student, University and Enterprise must be signed before starting any activity.

You must find an academic supervisor (professor) for the Internship

Contact: [stage@unipd.it](mailto:stage@unipd.it)



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