



Faculty of Engineering and Architecture
https://www.unica.it/unica/it/fac_ingarch.page

Academic Year 2022/2023

1. Degree Programmes A.Y. 2022/23

In academic year 2022/23 the Faculty of Engineering and Architecture offers the following degree programmes:

Bachelor's degree programmes (Italian course classification)	Web site
Architectural Science (L-17)	https://www.unica.it/unica/it/crs_80_71.page
Biomedical Engineering (L-8 & L-9)	https://www.unica.it/unica/it/crs_70_75.page
Chemical Engineering (L-9)	https://www.unica.it/unica/it/crs_70_77.page
Civil Engineering (L-7)	https://www.unica.it/unica/it/crs_70_72.page
Electrical Energy Engineering for Sustainable Development (L-9)	https://unica.it/unica/it/crs_70_92.page
Electronic, Computer and Telecommunication Engineering (L-8)	https://www.unica.it/unica/it/crs_70_94.page
Environmental and Land Engineering (L-7)	https://www.unica.it/unica/it/crs_70_73.page
Mechanical Engineering (L-9)	https://www.unica.it/unica/it/crs_70_78.page
Vocational Bachelor's degree programme (Italian course classification)	Web site
Techniques for Building Construction and Land Development (L-P01)	https://unica.it/unica/it/crs_70_93.page
Master's degree programmes (Italian course classification)	Web site
Architecture (LM-4)	https://www.unica.it/unica/it/crs_80_72.page
Chemical and Biotechnological Process Engineering (LM-22)	https://www.unica.it/unica/it/crs_70_88.page



Civil Engineering (LM-23)	https://www.unica.it/unica/it/crs_70_80.page
Computer Engineering, Cybersecurity and Artificial Intelligence (LM-32)	https://www.unica.it/cyberai
Electrical Engineering (LM-28)	https://www.unica.it/unica/it/crs_70_82.page
Electronic Engineering (LM-29)	https://www.unica.it/unica/it/crs_70_83.page
Energetic Engineering (LM-30)	https://www.unica.it/unica/it/crs_70_84.page
Environmental Engineering for Sustainable Development (LM-35)	https://www.unica.it/unica/it/crs_70_86.page
Internet Engineering (LM-27)	https://www.unica.it/unica/it/crs_70_91.page
Mechanical Engineering (LM-33)	https://www.unica.it/unica/it/crs_70_85.page

The School that supplies these programmes is the Faculty of Engineering and Architecture, located in the sites of [piazza d'Armi and Castello](#) in Cagliari, except for some courses that are taught in other structures of University of Cagliari.

2. Admission

2.1 BACHELOR'S DEGREES

Minimum qualification required: Five-year high school diploma

Degree Programme (University code)	Test date	Access	Students admitted	
			total	Foreign students
Architectural Science (80/71)	5 th September 2022	national restricted access	108	8
Biomedical Engineering (70/75)	19-20-21 July 2022 30-31 August 2022 1-2 September 2022	local restricted access	180	5
Chemical Engineering (70/77)		free access	-	15
Civil Engineering (70/72)		local restricted access	180	3
Electrical Energy Engineering for Sustainable Development (70/92)		local restricted access	180	3
Electronic, Computer and Telecommunication Engineering (70/94)		local restricted access	180	3
Environmental and Land Engineering (70/73)		free access	-	10
Mechanical Engineering (70/78)		local restricted access	180	4

The admission to the chosen programme, if at local restricted access, depends on the personal position in the list of candidates passing the entrance test.

More information is available (in Italian language) on the [Faculty web site](#).

All the administrative procedures to enroll are available at link <https://webstudenti.unica.it/esse3/Home.do>.



2.2 VOCATIONAL BACHELOR'S DEGREE PROGRAMME

Minimum qualification required: Five-year high school diploma

Degree Programme (University code)	Test date	Access	Students admitted	
			total	Foreign students
Techniques for Building Construction and Land Development (70/93)	19-20-21 July 2022 30-31 August 2022 1-2 September 2022	local restricted access	35	0

The admission to the chosen programme depends on the personal position in the list of candidates passing the entrance test.

More information is available (in Italian language) on the [Faculty web site](#).

All the administrative procedures to enroll are available at link <https://webstudenti.unica.it/esse3/Home.do>.

2.2 MASTER'S DEGREES

Master's Degree Programmes in Engineering are open access, while Master's Degree Programme in Architecture has a limited enrollment.

In any case specific curricular requirements must be satisfied and the assessment of personal proficiency and skills is required.

Minimum qualification required: First Cycle (Bachelor's) Degree

Degree Programme (University code)	Test date/ Assessment of personal proficiency	Access	Students admitted	
			total	Foreign students
Architecture (80/72)	8 th September 2022	local restricted access	80	4
Chemical and Biotechnological Process Engineering (70/88)	6 th September 2022	open access	-	15
Civil Engineering (70/80)	19 th September 2022	open access	-	10
Computer Engineering, Cybersecurity and Artificial Intelligence (70/90)	22 th September 2022	open access	-	40
Electrical Engineering (70/82)	8 th September 2022	open access	-	10
Electronic Engineering (70/83)	20 th September 2022	open access	-	11
Energetic Engineering (70/84)	14 th September 2022	open access	-	15
Environmental Engineering for Sustainable Development (70/95)	8 th September 2022	open access	-	20
Internet Engineering (70/91)	23 rd September 2022	open access	-	17
Mechanical Engineering (70/85)	7 th September 2022	open access	-	11

The admission to the Master's Degree of Architecture (8th September) depends on the position in the list of candidates passing the entrance exam.



Procedures and deadlines are available in the call for applications on the [Faculty website](#), to be downloaded and read carefully.

The methods and schedules for assessing curricular requirements and personal proficiency and skills may vary from programme to programme. Specific information about curricular requirements, methods and dates is available in the course website from [Faculty website](#), in the academic Regulation of the Degree Programme you are interested in.

3. Compulsory Supplementary Education (CSE) – Bachelor degrees

3.1 BACHELOR DEGREES IN ENGINEERING

A test result below the pass threshold (score < 15/50), for candidates in useful position in the list, causes assignment of compulsory supplementary education (CSE). These students can take advantage of the realignment courses available on the online platform of the University. The CSE can be satisfied by passing the test in a subsequent session (score = > 8/20) or by passing the exam in Mathematical analysis 1, before taking any other exams.

3.2 BACHELOR DEGREE IN ARCHITECTURAL SCIENCE

A test result below the pass threshold (score < 20/50), for candidates in useful position in the list, causes assignment of compulsory supplementary education (CSE). These students can take advantage of the realignment courses available on the online platform of the University. The CSE can be satisfied by passing the test in a subsequent session or by passing the exam in Architectural Drawing and the exam in Integrated Course in Mathematics, before taking any other exams.

3.3 VOCATIONAL BACHELOR'S DEGREE

A test result below the pass threshold (score < 15/50), for candidates in useful position in the list, causes assignment of compulsory supplementary education (CSE). These students can take advantage of the realignment courses available on the online platform of the University. The CSE can be satisfied by passing the test in a subsequent session (score = > 8/20) or by passing the exam in Mathematics (Integrated course: mathematical methods and physics principles for construction and land development), before taking any other exams.

4. European language level

All students must possess the European language level indicated in the table to acquire the relative credits:

Degree Programme (University code)	EU Language	European level (CEFR)	ECTS
Architectural Science (80/71)	English or other EU language*	B1	3
Biomedical Engineering (70/75)	English	B1	3
Chemical Engineering (70/77)	English	B1	3
Civil Engineering (70/72)	English	B1	3



Electrical Energy Engineering for Sustainable Development (70/92)	English	B1	3
Electronic, Computer and Telecommunication Engineering (70/94)	English	B1	3
Environmental and Land Engineering (70/73)	English	B1	3
Mechanical Engineering (70/78)	English	B1	3
Techniques for Building Construction and Land Development (70/93)	English	B1	3
Architecture (80/72)	English or other EU language*	B2	3
Chemical and Biotechnological Process Engineering (70/88)	English	B2	3
Civil Engineering (70/80)	English	B2	3
Electrical Engineering (70/82)	English	B2	3
Electronic Engineering (70/83)	English	B2	3
Environmental Engineering for Sustainable Development (70/95)	English	B2	3
Internet Engineering (70/91)	English	B2	3
Mechanical Engineering (70/85)	English	B2	3

* French, Spanish, German language

5. Teaching calendar and course schedule

Teaching calendar is online on Faculty web site at the menù calendars and timetable > [academic calendar](#).

First semester: 03/10/2022 – 22/12/2022;

Second semester: 27/02/2023 – 01/06/2023.

Course schedule is online on Faculty web site at the menù calendars and timetable > [course timetable](#).

6. Course attendance

The course attendance is mandatory.

7. Syllabi

Course outlines can be found on the university website at the link [Course search](#).



8. Exam sessions

The exam dates are 7, distributed as:

- 3 from 9th January to 25th February 2023;
- 3 from 5th June to 31st July 2023;
- 1 from 1st September to 30th September 2023.

All information about exam calendar and registration are online on the Faculty web site at the menù calendar and timetable > [exam timetable](#).

Exam schedule is also on Unica website at link [Bacheca Appelli](#).

To register to an exam on-line, go to [Esse3 \(Studenti e docenti\)](#) – Login, using your University User ID and Password.

9. Teaching courses a.y. 2022/2023

The teaching courses in academic year 2022/2023 are available in Annex A, for each degree programme.



**Annex A- Degree Programmes and teaching courses available in
A.Y. 2022/2023**

Bachelor degrees

- [Civil Engineering](#) – L-7
- [Environmental and Land Engineering](#) – L-7
- [Electronic, Computer and Telecommunication Engineering](#) – L-8
- [Chemical Engineering](#) – L-9
- [Electrical Energy Engineering for Sustainable Development](#) – L-9
- [Mechanical Engineering](#) – L-9
- [Biomedical Engineering](#) – L-8 & L-9
- [Electrical, Electronic and Computer Engineering](#) – L-8 & L-9
- [Architectural Science](#) – L-17

Vocational Bachelor's degree

- [Techniques for Building Construction and Land Development](#) – L-P01

Master's degrees

- [Architecture](#) – LM-4
- [Chemical and Biotechnological Process Engineering](#) – LM-22
- [Civil Engineering](#) – LM-23
- [Internet Engineering](#) – LM-27
- [Electrical Engineering](#) – LM-28
- [Electronic Engineering](#) – LM-29
- [Energetic Engineering](#) – LM-30
- [Computer Engineering, Cybersecurity and Artificial Intelligence](#) – LM-32
- [Mechanical Engineering](#) – LM-33
- [Environmental Engineering for Sustainable Development \(Environmental and Land Engineering\)](#) – LM-35

The most courses are taught in Italian language, only the courses with the English flag are taught in English language.

Only the master's degree programme in Computer Engineering, Cybersecurity and Artificial Intelligence is completely taught in English language.

Abbreviations

SSD	Scientific Disciplinary Sector
TAF	Type of Educational Activity



Civil Engineering (L-7)

First year – enrolled student a.y. 2022/23

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	IN/0186	Mathematical Analysis 1	MAT/05	A	9	90	Viglialoro Giuseppe
1	70/0006-M	Fundamentals of Computer Science	ING-INF/05	A	6	60	Fumera Giorgio
1	IN/0191	Integrated Course: Chemistry and Materials Technology and Applied Chemistry					
2	70/0001-M	- Module: Chemistry	CHIM/03	A	6	60	Serpe Angela
2	70/0085-M	- Module: Materials Technology and Applied Chemistry	ING-IND/22	C	5	50	Elsener Bernhard
1	IN/0081	Integrated Course: Technical Architecture and Graphics Lab					
2	IN/0083	- Module: Graphics Lab	ICAR/17	F	4	40	Argiolas Raffaele
2	IN/0082	- Module: Technical Architecture	ICAR/10	B	6	60	Loddo Gianraffaele
2	70/0004-M	Physics 1	FIS/01	A	8	80	Bongiovanni Giovanni
2	IN/0079	Geometry and Algebra	MAT/03	A	7	70	Ratto Andrea

Second year – enrolled student a.y. 2021/22

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	IN/0188	Mathematical Analysis 2	MAT/05	A	8	80	Arrai Francesco
1	70/0005-M	Physics 2	FIS/01	A	7	70	Corpino Riccardo
1	70/0073-M	Mechanics	MAT/07	A	6	60	Mignemi Salvatore
1	IN/0080	Decisional Methods in Economy	MAT/09	C	5	50	Manca Benedetto
2	70/0080-M	Structural Mechanics/Strength of Materials	ICAR/08	B	10	100	Cazzani Antonio M.
2	70/0059-M	Hydraulics	ICAR/01	B	10	100	Balzano Andrea
2	70/0056-M	Fundamentals of Transport	ICAR/05	B	6	60	Serra Patrizia

Third year – enrolled student a.y. 2020/21

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	IA/0048	Hydrology and Statistics	ICAR/02	B	8	80	Montaldo Nicola
	IN/0087	Integrated Course: Topography and Topography Laboratory					
1	IN/0088	- Module: Topography	ICAR/06	B	6	60	Sanna Giovanna M.
1	IN/0089	- Module: Topography Laboratory	ICAR/06	F	4	40	Sanna Giovanna M.



	IN/0090	Integrated Course: Applied Thermodynamics and Electrotechnics					
1	IN/0091	- Module: Applied Thermodynamics	ING-IND/11	C	5	50	Baccoli Roberto
2	IN/0092	- Module: Electrotechnics	ING-IND/31	C	4	40	Pisano Fabio
1-2	70/0084-M	Theory and Technology of Structures	ICAR/09	B	10	100	Sassu Mauro Puppio Mario Lucio
	IN/0093	Integrated Course: Geotechnics and Construction of Road, Railways and Airport					
2	IN/0094	- Module: Geotechnics	ICAR/07	B	6	60	Soccodato Fabio M.
2	IN/0095	- Module: Construction of Road, Railways and Airport	ICAR/04	B	6	60	Maltinti Francesca
	70/0090-M	Integrated Course: Water Supply and Sewerage and Water Supply and Sewerage Lab					
2	70/0090-M1	- Module: Water Supply and Sewerage	ICAR/02	B	6	60	Viola Francesco
2	70/0090-M2	- Module: Water Supply and Sewerage Lab	ICAR/02	F	4	40	Viola Francesco

Activities rules

Academic Year Enrolment	If you do not pass:	You cannot take:
2021/22	Mathematical Analysis 1 Geometry and Algebra Physics 1	All 2nd year exams
2020/21	Mathematical Analysis 2 Physics 2	All 3rd year exams
	Mechanics Construction Theory	Theory and Technology of Structures
	Mechanics Construction Theory	Integrated Course: Geotechnics and Construction of Road, Railways and Airport

All rules are available in the course educational regulation of the year corresponding to your first year of enrolment.



Environmental and Land Engineering (L-7)

First year – enrolled student a.y. 2022/23

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	IN/0186	Mathematical Analysis 1	MAT/05	A	9	90	Viglialoro Giuseppe
1	70/0001-M	Chemistry	CHIM/03	A	6	60	Serpe Angela
1	70/0006-M	Fundamentals of Computer Science	ING-INF/05	A	6	60	Fumera Giorgio
1	IA/0187	Engineering for Sustainable Development		F	1	25	COORDINATOR
2	70/0004-M	Physics 1	FIS/01	A	8	80	Bongiovanni Giovanni
2	IN/0079	Geometry and Algebra	MAT/03	A	7	70	Ratto Andrea
2	IN/0098	Lithology and Geology	GEO/09	C	6	60	Valera Paolo
2	70/0064-M	Graphics Lab	ICAR/17	F	6	60	Pirinu Andrea

Second year – enrolled student a.y. 2021/22

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	IN/0188	Mathematical Analysis 2	MAT/05	A	8	80	Arrai Francesco
1	70/0005-M	Physics 2	FIS/01	A	7	70	Corpino Riccardo
1	IN/0008	Thermodynamics and Fluid Machinery	ING-IND/09	C	6	60	Cocco Daniele
1	IN/0101	Integrated Course: Science and Technology of Constructions					
1	IN/0102	- Module: Construction Theory	ICAR/08	B	8	80	Brun Michele
2	IN/0103	- Module: Theory and Technology of Structures	ICAR/09	B	8	80	Pani Luisa
2	70/0065-M	Electrotechnics Laboratory	ING-IND/31	F	6	60	Montisci Augusto
2	70/0059-M	Hydraulics	ICAR/01	B	10	100	Balzano Andrea
2	70/0054-M	Transport Phenomena in Environmental Protection	ING-IND/24	C	6	60	Desogus Francesco

Third year – enrolled student a.y. 2020/21

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	IN/0097	Applied Geology	GEO/05	B	6	60	Uras Gabriele
1	IA/0048	Hydrology and Statistics	ICAR/02	B	8	80	Deidda Roberto
1	70/0081-M	Occupational Safety and Environmental Protection	ING-IND/28	B	8	80	Massacci Giorgio



1	70/0089-M	Topography and Cartography	ICAR/06	B	6	60	Vacca Giuseppina
2	IA/0078	Environmental Pollution and Remediation Processes	ICAR/03	B	8	80	Carucci Alessandra Farru Gianluigi
2	70/0077-M	Regional Planning	ICAR/20	B	8	80	Zoppi Corrado Leone Federica
	IN/0099	Integrated Course: Geotechnics and Applied Seismology					
2	IN/0094	- Module: Geotechnics	ICAR/07	B	6	60	Tropeano Giuseppe
2	IN/0100	- Module: Applied Seismology	GEO/11	B	6	60	Deidda Gian Piero

Laboratories that can be chosen by students to satisfy part of the credits of own free choice

Sem	Code course	Laboratories	SSD	ECTS	H	Teacher
2	IN/0220	Sanitary and Environmental Engineering Laboratory	ICAR/03	2	25	Cappai Giovanna S.
2	IA/0170	Environmental Geophysics Lab	GEO/11	3	30	Deidda Gian Piero
2	IA/0001	Workshop of Regional Planning	ICAR/20	3	45	Lai Sabrina Zoppi Corrado

Other optional activities can be communicated on course web site.

Activities rules

Academic Year Enrolment	If you do not pass:	You cannot take:
2021/22	Mathematical Analysis 1 Geometry and Algebra Physics 1	All 2nd year exams
2020/21	Mathematical Analysis 2 Physics 2	All 3rd year exams

All rules are available in the course educational regulation of the year corresponding to your first year of enrolment.



Electronic, Computer and Telecommunication Engineering (L-8)

available only the first year

First year – enrolled student a.y. 2022/23

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	IN/0186	Mathematical Analysis 1	MAT/05	A	9	90	Loi Roberto
1	70/0004-M	Physics 1	FIS/01	A	8	80	Chiriu Daniele Sanna Andrea
1	IN/0155	Integrated Course: Information Processing Systems					
1	IA/0274	- Module: Programming Fundamentals	ING-INF/05	A	6	60	Fraschini Matteo
2	IN/0157	- Module: Computer Architectures	ING-INF/05	A	6	60	Orrù Giulia Roli Fabio
2	70/0001-M	Chemistry	CHIM/07	C	6	60	Casula M. Francesca
2	70/0005-M	Physics 2	FIS/01	A	6	60	Oldeman Rudolf G.C.
2	IN/0079	Geometry and Algebra	MAT/03	A	7	70	Sanna Antonio
2	IN/0005	Communication Networks	ING-INF/03	C	6	60	Martalò Marco



Chemical Engineering (L-9)

First year – enrolled student a.y. 2022/23

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	IN/0186	Mathematical Analysis 1	MAT/05	A	9	90	Vigialoro Giuseppe
1	IA/0171	Chemistry 1	CHIM/07	A	9	90	Pilia Luca
1	IA/0051	Chemistry Laboratory	CHIM/07	F	3	30	Pilia Luca
2	70/0004-M	Physics 1	FIS/01	A	8	80	Bongiovanni Giovanni
2	70/0006-M	Fundamentals of Computer Science	ING-INF/05	A	6	60	Marcialis Gian Luca Didaci Luca
2	IN/0079	Geometry and Algebra	MAT/03	A	7	70	Arrai Francesco
2	IA/0052	Introduction to Chemical Engineering	ING-IND/24	F	3	30	Desogus Francesco

Second year – enrolled student a.y. 2021/22

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	IN/0188	Mathematical Analysis 2	MAT/05	A	8	80	Arrai Francesco
1	70/0017-M	Chemistry 2	CHIM/07	A	6	60	Delogu Francesco
1	70/0005-M	Physics 2	FIS/01	A	7	70	Corpino Riccardo
2	70/0088-M	Chemical Thermodynamic	ING-IND/24	B	9	90	Locci Antonio M.
2	70/0053-M	Electrotechnics	ING-IND/31	C	6	60	Cannas Barbara
2	70/0072-M	Fluid Mechanics	ICAR/01	C	9	90	Ferrari Simone
2	IA/0153	Fundamentals of Mass, Energy and Momentum Transport	ING-IND/24	B	6	60	Locci Antonio M.

Third year – enrolled student a.y. 2020/21

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	70/0069-M	Applied Mathematics	MAT/08	A	6	60	Fermo Luisa
1	IN/0102	Construction Theory	ICAR/08	C	6	60	Brun Michele
1	70/0068-M	Fluid Machinery and Energy Systems	ING-IND/09	B	9	90	Cocco Daniele
1-2	70/0087-M	Applied Chemistry and Technology	ING-IND/22	B	12	120	Licheri Roberta
2	70/0060-M	Chemical Plant Design	ING-IND/25	B	9	90	Leonzio Grazia Mascia Michele
2	70/0063-M	Chemical Reaction Engineering	ING-IND/24	B	9	90	Lai Nicola
2	70/0083-M	Instrumentation and Control	ING-IND/26	B	9	90	Baratti Roberto



Activities rules

Academic Year Enrolment	If you do not pass:	You cannot take:
2021/22	Mathematical Analysis 1 Geometry and Algebra Physics 1	All 2nd year exams
2020/21	Mathematical Analysis 2 Physics 2	All 3rd year exams

All rules are available in the course educational regulation of the year corresponding to your first year of enrolment.



Electrical Energy Engineering for Sustainable Development (L-9)

available only the first year

First year – enrolled student a.y. 2022/23

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	IN/0186	Mathematical Analysis 1	MAT/05	A	9	90	Loi Roberto
1	70/0001-M	Chemistry	CHIM/07	C	6	60	Vacca Annalisa
1	70/0004-M	Physics 1	FIS/01	A	8	80	Chiriu Daniele Sanna Andrea
1	IA/0220	Fundamentals of Computer Science	ING-INF/05	A	6	60	Didaci Luca Marcialis Gian Luca
2	70/0005-M	Physics 2	FIS/01	A	7	70	Oldeman Rudolf G.C.
2	IN/0079	Geometry and Algebra	MAT/03	A	7	70	Sanna Antonio
	IA/0221	Integrated course: Systems for Digital Sustainability					
2	IA/0222	- Module: Geography of Digital Sustainability	M-GGR/02	C	5	50	Mundula Luigi
2	IN/0005	- Module: Communication Networks	ING-INF/03	C	6	60	Martalò Marco



Mechanical Engineering (L-9)

First year – enrolled student a.y. 2022/23

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	IN/0186	Mathematical Analysis 1	MAT/05	A	9	90	Marras Monica
1	70/0001-M	Chemistry	CHIM/07	A	6	60	Delogu Francesco
1	70/0004-M	Physics 1	FIS/01	A	8	80	Mura A. Andrea
2	70/0006-M	Fundamentals of Computer Science	ING-INF/05	A	6	60	Marcialis Gian Luca Didaci Luca
2	IN/0079	Geometry and Algebra	MAT/03	A	7	70	Arrai Francesco
2	IA/0006	Introduction to Technical Drawing	ING-IND/15	F	3	30	Bertolino Filippo
2	70/0005-M	Physics 2	FIS/01	A	7	70	Bozzi Giuseppe

Second year – enrolled student a.y. 2021/22

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	IN/0188	Mathematical Analysis 2	MAT/05	A	8	80	Marras Monica
1	IN/0225	Materials Technology	ING-IND/22	C	6	60	Pia Giorgio
1	70/0050-M	Technical Drawing	ING-IND/15	B	6	60	Ambu Rita
1	IA/0005	Integrated Course: Thermofluid Dynamics					
1	IN/0091	- Module: Applied Thermodynamics	ING-IND/11	C	6	60	Baccoli Roberto
2	70/0072-M	- Module: Fluid Mechanics	ICAR/01	C	6	60	Querzoli Giorgio
2	IN/0102	Construction Theory	ICAR/08	B	9	90	Carta Giorgio
2	70/0053-M	Electrotechnics	ING-IND/31	C	6	60	Cannas Barbara
2	70/0086-M	Manufacturing Technology	ING-IND/16	B	9	90	El Mehtedi Mohamad



Third year – enrolled student a.y. 2020/21

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	70/0070-M	Applied Mechanics	ING-IND/13	B	9	90	Ruggiu Maurizio
1	70/0066-M	Fluid Machinery	ING-IND/08	B	9	90	Puddu Pierpaolo
1	IN/0104	Integrated Course: Machine Components Design					
1	IN/0105	- Module: Fundamentals of Machine Design	ING-IND/14	B	6	60	Leban Bruno
2	IN/0106	- Module: Machine Elements	ING-IND/14	B	6	60	Baldi Antonio
2	70/0082-M	Energy Systems	ING-IND/09	B	9	90	Cau Giorgio
2	IN/0234	Industrial Plans	ING-IND/17	B	9	90	Pilloni M. Teresa
2	IA/0007	Measurements in Fluid Machines	ING-IND/08	B	6	60	Cambuli Francesco

Activities rules

Academic Year Enrolment	If you do not pass:	You cannot take:
2022/23	Physics 1	Physics 2
2021/22	Mathematical Analysis 1 Geometry and Algebra Physics 1	All 2nd year exams
2020/21	Mathematical Analysis 2 Physics 2	All 3rd year exams

All rules are available in the course educational regulation of the year corresponding to your first year of enrolment.



Biomedical Engineering (L-8 & L-9)

First year – enrolled student a.y. 2022/23

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	IN/0186	Mathematical Analysis 1	MAT/05	A	9	90	Iannizzotto Antonio
1	70/0001-M	Chemistry	CHIM/07	A	6	60	Vacca Annalisa
1	70/0004-M	Physics 1	FIS/01	A	8	80	Concas Giorgio
1	IN/0155	Integrated Course: Information Processing Systems					
	IN/0156	- Module: Fundamentals of Computer Science	ING-INF/05	A	6	60	Marcialis Gian Luca
2	IN/0157	- Module: Computer Architectures	ING-INF/05	A	6	60	Marcialis Gian Luca Orrù Giulia
2	IN/0079	Geometry and Algebra	MAT/03	A	7	70	Zuddas Fabio
2	70/0005-M	Physics 2	FIS/01	A	7	70	Filippetti Alessio
2	IA/0065	Integrated Course: Human Body Biology					
	IN/0038	- Module: Human Anatomy	BIO/16	C	4	40	Cocco Cristina
	IN/0012	- Module: Biochemistry	BIO/10	C	2	20	Floris Sonia
	IN/0039	- Module: Fundamentals of Physiology	BIO/09	C	3	30	Melis Melania

Second year – enrolled student a.y. 2021/22

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	IN/0188	Mathematical Analysis 2	MAT/05	A	8	80	Frassu Silvia
	IN/0236	Integrated Course: Fundamentals of Mechanics and Biomaterials					
1	IN/0165	- Module: Fundamentals of Mechanics and Biomechanics	ING-IND/14	B	5	50	Leban Bruno
1	IN/0237	- Module: Biomaterials	ING-IND/24	B	5	50	Orrù Roberto
1	70/0069-M	Applied Mathematics	MAT/08	A	6	60	Fermo Luisa
	IA/0067	Integrated Course: Biochemical Engineering					
1	IA/0068	- Module: Fundamentals of Biochemical Engineering	ING-IND/24	B	5	50	Lai Nicola
2	IA/0069	- Module: Applications of Biochemical Engineering	ING-IND/24	B	5	50	Cincotti Alberto
	IN/0034	Integrated Course: Fundamentals of Information Engineering					
2	IN/0035	- Module: Fundamentals of Systems Theory	ING-INF/04	B	5	50	Giua Alessandro
2	IN/0036	- Module: Electronical Signal Processing	ING-INF/06	B	5	50	Pani Danilo
	IN/0215	Integrated Course: Electronic Design					
2	IN/0216	- Module: Analog Electronics	ING-INF/01	B	5	50	Barbaro Massimo
2	IN/0217	- Module: Digital Electronics	ING-INF/01	B	5	50	Raffo Luigi



Third year – enrolled student a.y. 2020/21

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	70/0014-M	Electric Actuators and Converters	ING-IND/32	B	5	50	Gatto Gianluca
1	IN/0168	Mechanical Bioengineering	ING-IND/14	B	10	100	Pau Massimiliano Porta Micaela
1	IN/0212	Integrated Course: Bioelectronics					
	IN/0213	- Module: Bioelectronics Fundamentals	ING-INF/06	B	5	50	Bonfiglio Annalisa
1	IN/0214	- Module: Bioelectronic Interfaces	ING-INF/06	B	5	50	Bonfiglio Annalisa
	IN/0040	Integrated Course: Fundamentals of Clinic and Pathology					
1	IN/0041	- Module: Pathology	MED/08	C	2	20	Coni Pierpaolo
2	IN/0042	- Module: Internal Medicine	MED/09	C	2	20	Barcellona Doris
2	IN/0044	- Module: Radiology and Nuclear Medicine	MED/36	C	2	20	Saba Luca
2	IA/0148	- Module: Technologies and Instruments in Surgery	MED/18	C	2	20	Restivo Angelo
		<i>choose between:</i>					
2	IN/0046	Biosensors	ING-INF/06	B	5	50	Spanu Andrea
2	IN/0218	Medical Instrumentation	ING-INF/06	B	5	50	Pani Danilo
		<i>choose between:</i>					
2	IN/0048	Electromagnetic Compatibility	ING-INF/02	C	5	50	Fanti Alessandro
2	IN/0049	Power and Electrical Safety in Hospital	ING-IND/33	C	5	50	Pisano Giuditta
1	IA/0191	Technologies and Numerical Techniques for Clinical Image Processing	ING-INF/02	ST	5	50	Fanti Alessandro Mazzarella Giuseppe
2	IA/0189	Applied Biomechanics	ING-IND/34	ST	5	50	Pau Massimiliano

Activities rules

Academic Year Enrolment	If you do not pass:	You cannot take:
2022/23	Physics 1	Physics 2
	I. C.: Human Body Biology	Chemistry
2021/22	Mathematical Analysis 1 Geometry and Algebra Physics 1	All 2nd year exams
	I. C.: Fundamentals of Mechanics and Biomaterials	Chemistry
2020/21	Mathematical Analysis 2 Physics 2	All 3rd year exams

All rules are available in the course educational regulation of the year corresponding to your first year of enrolment.



Electrical, Electronic and Computer Engineering (L-8 & L-9)

available only the second and the third year

In addition to traditional lectures, the programme is also offered in e-learning modality. When enrolling, the students have to choose the desired teaching method: traditional or blended. The latter includes e-learning teaching for the classes in the 2nd year with the asterisk.

Second year – enrolled student a.y. 2021/22

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	IN/0188	Mathematical Analysis 2*	MAT/05	A	8	80	Piro Stella
1	70/0069-M	Applied Mathematics*	MAT/08	A	6	60	Rodriguez Giuseppe
1-2	70/0053-M	Electrotechnics*	ING-IND/31	B	12	120	Fanni Alessandra
	70/0019-M	Integrated Course: Analysis and Control of Dynamical Systems					
1	IN/0019	- Module: System Theory*	ING-INF/04	B	6	60	Seatzu Carla
2	IN/0020	- Module: Automatic Control Systems*	ING-INF/04	B	6	60	Deplano Diego
2	IN/0022	Fundamentals of Electronics*	ING-INF/01	B/C	10	100	Martines Giovanni Barbaro Massimo
2	IN/0021	Electrical and Electronic Measurements*	ING-INF/07	B	9	90	Muscas Carlo Catello Paolo
Curriculum Electrical Engineering							
1	70/0055-M	Engineering Physics*	ING-IND/11	C	6	60	Baccoli Roberto
Curriculum Electronic Engineering							
1	IA/0149	Fundamentals of Telecommunication*	ING-INF/03	C	6	60	Giusto Daniele
Curriculum Computer Engineering							
1	IA/0071	Advanced Programming and Elements of Software Engineering	ING-INF/05	B/C	5	50	Didaci Luca

Third year – enrolled student a.y. 2020/21

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
	IN/0023	Integrated Course: Power Electronics and Electrical Power Systems					
1	IN/0024	- Module: Power Electronics	ING-IND/32	B/C	6	60	Gatto Gianluca
1	IN/0025	- Module: Fundamentals of Electric Power Systems	ING-IND/33	B	6	60	Pilo Fabrizio G.L. Ghiani Emilio



Curriculum Electrical Engineering							
1	70/0068-M	Fluid Machinery and Energy Systems	ING-IND/09	C	6	60	Cocco Daniele
1	IN/0026	Measurements on Power Systems	ING-INF/07	B	6	60	Sulis Sara
2	IN/0006	Electrical Machines	ING-IND/32	B	6	60	Floris Andrea Damiano Alfonso
2	IN/0029	Fundamentals of Electric Power Distribution and Smart Grids	ING-IND/33	B/C	6	60	Pilo Fabrizio G.L. Ghiani Emilio
Curriculum Electronic Engineering							
1	70/0078-M	Digital Systems Design	ING-INF/01	B/C	8	80	Raffo Luigi
1	70/0016-M	Electromagnetic Fields	ING-INF/02	B/C	8	80	Mazzarella Giuseppe
2	IN/0030	Semiconductor Devices	ING-INF/01	C	6	60	Cosseddu Piero
2	IN/0027	Semiconductor Physics	FIS/03	C	6	60	Pintus Paolo
Curriculum Computer Engineering							
1	IN/0031	Databases	ING-INF/05	B/C	6	60	Giacinto Giorgio
1	70/0078-M	Digital Systems Design	ING-INF/01	C	8	80	Raffo Luigi
2	IN/0033	Internet	ING-INF/03	C	6	60	Atzori Luigi
2	IN/0028	Object Oriented Programming Languages	ING-INF/05	B/C	5	50	Demontis Ambra

Activities rules

Academic Year Enrolment	If you do not pass:	You cannot take:
2021/22	Mathematical Analysis 1 Geometry and Algebra Physics 1	All 2nd year exams
2020/21	Mathematical Analysis 2 Physics 2	All 3rd year exams

All rules are available in the course educational regulation of the year corresponding to your first year of enrolment.



Architectural Science (L-17)

First year – enrolled student a.y. 2022/23

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	IA/0050	Architectural Drawing and Representation	ICAR/17	A	8	80	Bagnolo Vincenzo
1	AR/0020	Integrated Course in Mathematics					
	AR/0022	- Module: Geometry	MAT/03	A	5	50	Ratto Andrea
2	AR/0021	- Module: Mathematical Analysis	MAT/05	A	5	50	Sanna Antonio
1-2	80/034	History of Architecture 1	ICAR/18	A	8	80	Cadinu Marco
1-2	IA/0162	Integrated Laboratory of Design and Construction of Architecture 1					
	AR/0025	- Module: Architectural Design 1	ICAR/14	B	10	100	Peghin Giorgio M. (course A) Cocco Giovanni B. (course B)
1-2	AR/0026	- Module: Technological Design of Architecture 1	ICAR/10	B	5	50	Loddo Gianraffaele
1	IA/0054	Integrated Course in Materials for Architecture					
	IA/0055	- Module: Materials Technology	ING-IND/22	C	4	40	Pia Giorgio
2	AR/0023	- Module: Geomaterials for Architecture	GEO/09	C	5	50	Grillo Silvana
2	IA/0056	Urban Geography	M-GGR/02	C	4	40	Memoli Maurizio

Second year – enrolled student a.y. 2021/22

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	80/039	History of Architecture 2	ICAR/18	A	8	80	Schirru Marcello
	IA/0164	Integrated Course of Architectural and Environmental Survey and Representation					
1	IA/0165	- Module: Drawing	ICAR/17	A	7	70	Pirinu Andrea
2	IA/0166	- Module: Topography	ICAR/06	C	3	30	Vacca Giuseppina
	IA/0163	Integrated Laboratory of Design and Construction of Architecture 2					
1-2	AR/0028	- Module: Architectural Design 2	ICAR/14	B	10	100	Lecis Marco (course A) Cherchi P. Francesco (course B)
1-2	AR/0029	- Module: Technological Design of Architecture 2	ICAR/10	B	5	50	Mura Emanuele



1-2	AR/0008	Structural Mechanics/Strength of Materials and Statics	ICAR/08	B	11	110	Reccia Emanuele Cazzani Antonio M.
2	AR/0009	Environmental Technical Physics	ING-IND/11	A	8	80	Ricciu Roberto Frattolillo Andrea
2	80/040	Fundamentals of Urban Planning	ICAR/20	B	5	50	Colavitti Anna Maria

Third year – enrolled student a.y. 2020/21

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	IA/0003	Geodesign	ICAR/20	B	5	50	Campagna Michele
1	80/044	Building Production Processes and Methods	ICAR/11	C	5	50	Quaquero Emanuela
1	80/046	Theory and History of Restoration	ICAR/19	B	7	70	Giannattasio Caterina
1	AR/0030	Integrated Laboratory of Design and Construction of Architecture 3					
1	AR/0031	- Module: Architectural Design 3	ICAR/14	B	10	100	Faiferri Massimo (course A) Atzeni Carlo (course B)
2	AR/0032	- Module: Technological Design of Architecture 3	ICAR/10	B	5	50	Marras Francesco
2	IA/0058	Real Estate Appraisal	ICAR/22	B	5	50	Blecic Ivan
2	AR/0002	Structural Design and Analysis	ICAR/09	B	6	60	Mistretta Fausto
2	IA/0161	Urban Planning	ICAR/20	B	5	50	Colavitti Anna Maria

Activities rules

Academic Year Enrolment	If you do not pass:	You cannot take:
2021/22	Architectural Drawing and Representation	Integrated Course of Architectural and Environmental Survey and Representation
	Integrated Course in Mathematics	Structural Mechanics/Strength of Materials and Statics
	History of Architecture 1	History of Architecture 2
2020/21	Structural Mechanics/Strength of Materials	Structural Design and Analysis
	History of Architecture 2	Theory and History of Restoration

All rules are available in the course educational regulation of the year corresponding to your first year of enrolment.



Techniques for Building Construction and Land Development (L-P01)

available only the first year

First year – enrolled student a.y. 2022/23

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
	IA/0238	Integrated course: Mathematical Methods and Physics Principles for Construction and Land Development					
1	IA/0240	- Module: Physics	FIS/01	A	3	24	Bernardini Fabio
1	IA/0239	- Module: Mathematics	MAT/05	A	3	24	Piro Stella
	IA/0242	Integrated course: Principles of Structural Mechanics and Design					
1	IA/0243	- Module: Structural Mechanics	ICAR/08	B	3	24	Reccia Emanuele
1	IA/0244	- Module: Structural Design	ICAR/09	B	3	24	Valdes Monica
1	IA/0241	Digital Representation Techniques	ICAR/17	B	6	48	Pirinu Andrea
1-2	IA/0249	Fundamentals of Computer Science, Data Analysis and Statistics	ING-INF/05	A	6	48	Fraschini Matteo
	IA/0245	Integrated course: Building Construction and Restoration					
1	IA/0246	- Module: Architectural Engineering	ICAR/10	B	5	40	Achenza M.Maddalena Atzeni Carlo Marras Francesco
2	IA/0247	- Module: Architectural design	ICAR/14	B	3	24	Faiferri Massimo Pusceddu Fabrizio
2	IA/0248	- Module: Restoration	ICAR/19	C	3	24	Fiorino Donatella R.
	IA/0253	Integrated course: Digitalization, BIM and Construction Management					
2	IA/0254	- Module: Digitalization and BIM	ICAR/11	B	4	32	Rubiu Giulia
2	IA/0255	- Module: Management	ICAR/22	B	3	24	Saiu Valeria Blecic Ivan
	IA/0250	Integrated course: Geomatics Techniques for Construction and Land Development					
2	IA/0251	- Module: Building construction	ICAR/06	B	3	24	Vecchi Enrica
2	IA/0252	- Module: Land development	ICAR/06	B	3	24	Vecchi Enrica
2	IA/0256	Building Laboratory		F	10	120	Cadoni Stefano Congiu Eleonora Saiu Valeria



Architecture (LM-4)

First year – enrolled student a.y. 2022/23

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
	80/052	Integrated Course: History of Contemporary Art and Architecture					
1	80/052-1	- Module: History of Contemporary Architecture	ICAR/18	B	5	50	Mais Stefano
1	80/052/2	- Module: History of Contemporary Art	L-ART/03	C	3	30	Salis Mauro
	AR/0010	Integrated Laboratory of Survey and Restoration					
1	AR/0010-1	- Module: Survey	ICAR/17	B	5	50	Bagnolo Vincenzo
1	AR/0010-2	- Module: Restoration	ICAR/19	B	5	50	Fiorino Donatella
	IA/0079	Integrated Course: Architectural and Urban Theory and Design Studio					
1	IA/0079-1	- Module: Theory and Design	ICAR/14	B	6	60	Chiri Giovanni M. Lecis Marco
2	IA/0079-2	- Module: Design	ICAR/14	B	6	60	Chiri Giovanni M.
	IA/0080	Integrated Laboratory of Technological Design					
2	IA/0080-1	- Module: BIM	ICAR/11	C	3	30	Quaquero Emanuela
2	IA/0080-2	- Module: Structural design	ICAR/09	B	5	50	Fenu Luigi Congiu Eleonora
2	IA/0080-3	- Module: Innovative Technologies for Architecture	ICAR/10	B	5	50	Atzeni Carlo
2	IA/0080-4	- Module: Building thermophysics	ING-IND/11	B	5	50	Ricciu Roberto
		<i>One choice among:</i>					
1	IA/0160	Environmental and Architectural Psychology	M-PSI/05	C	4	40	Fornara Ferdinando
2	IA/0157	Film Aesthetics	L-ART/06	C	4	40	Floris Antioco
2	IA/0081	Public Space and Mobility	ICAR/04	C	4	40	Pinna Francesco



Second year – enrolled student a.y. 2021/22

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
	IA/0200	Integrated Course: Urban Planning, Evaluation and Social Research					
1	IA/0203	- Module: Evaluation of Plans, Projects and Public Policy	ICAR/22	B	5	50	Blecic Ivan
1	IA/0202	- Module: Social Research	SPS/10	B	5	50	Cois Ester
1	IA/0201	- Module: Urban Planning	ICAR/20	B	5	50	Colavitti Anna Maria
		<i>One choice among:</i>					
1	IA/0086	Landscape Architecture	ICAR/15	C	4	40	Dessi Adriano
1	IA/0084	Sustainable Materials and Technologies for Architecture	ING-IND/22	C	4	40	Meloni Paola
2	IA/0085	Interior Design	ICAR/16	C	4	40	Chiri Giovanni M.
2	IA/0159	Non-Destructive Testing of Artefacts and Structures	GEO/11	C	4	40	Vignoli Giulio
Curriculum Architecture, Landscape and Society							
1	IA/0088	Social and Landscape Geography	M-GGR/02	C	4	40	Salimbeni Alice
		<i>choose between:</i>					
1	IA/0082	Accessibility for Public and Urban Spaces	ICAR/04	C	4	40	Pinna Francesco
1	IA/0091	Sustainable Mobility Planning	ICAR/05	C	4	40	Meloni Italo
2	IA/0179	Architectural Design: Theory and Criticism	ICAR/14	C	3	30	Lecis Marco
	IA/0087	Integrated Laboratory of Architecture, Landscape and Society Design Studio					
2	IA/0087-1	-Module: Architecture and Society	ICAR/14	B	5	50	Peghin Giorgio M.
2	IA/0087-2	-Module: Landscape	ICAR/14	B	5	50	Dessi Adriano
		<i>choose between:</i>					
2	IA/0093	Architectural Representation and Visual Communication	ICAR/17	C	4	40	Bagnolo Vincenzo
2	IA/0089	History of City and Landscape Development	ICAR/18	C	4	40	Cadinu Marco



Curriculum Historical Architecture and Design							
1	IA/0095	Historical Materials Characterization and Conservation	GEO/09	C	4	40	Grillo Silvana M.
1	IA/0099	<i>choose between:</i> Museum Exhibit Design	ICAR/13	C	4	40	Chiri Giovanni M.
1	IA/0097	Recovery of Traditional Architecture in Historical Town Centres	ICAR/10	C	4	40	Achenza Maddalena Sanna Antonello
1	IA/0100	<i>Choose between:</i> Restoration Site	ICAR/19	C	4	40	Fiorino Donatella
1	IA/0101	Protection of Historical Landscapes	ICAR/19	C	4	40	Pintus Valentina
2	IA/0096	Structural Analysis of Historical Architectures	ICAR/08	C	3	30	Reccia Emanuele
	IA/0094	Integrated Laboratory of Architecture and Restoration Design Studio					
2	IA/0094-1	- Module: Architecture	ICAR/14	B	5	50	Cocco G. Battista Papillault Remi P.A.
2	IA/0094-2	- Module: Restoration	ICAR/19	B	5	50	Giannattasio Caterina
Curriculum Architecture and Sustainability							
1	IA/0105	Structural Architecture	ICAR/09	C	4	40	Fenu Luigi
1	IA/0103	Earthen Architecture. Building Cultures and Sustainable Development	ICAR/10	C	4	40	Achenza Maddalena
1	IA/0106	<i>One choice among:</i> Sustainable Energy in Building Systems	ING-IND/11	C	4	40	Ricciu Roberto
1	IA/0107	Climate Control Strategies within Heritage Buildings	ING-IND/11	C	4	40	Frattolillo Andrea
1	IA/0108	Urban Micro-Climatology	ICAR/01	C	4	40	Ferrari Simone
	IA/0102	Integrated Laboratory of Sustainable Architecture Design Studio					
2	IA/0102-1	- Module: Technical Architecture	ICAR/10	B	5	50	Achenza Maddalena
2	IA/0102-2	- Module: Architectural Design	ICAR/14	B	5	50	Cherchi P. Francesco
2	IA/0109	Safety and Project Management at Construction Sites	ING-IND/28	C	3	30	Dentoni Valentina







Chemical and Biotechnological Process Engineering (LM-22)

First year – enrolled student a.y. 2022/23

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	IA/0154	Applied Statistics for Industrial Engineering	ING-IND/26	B	9	90	Grosso Massimiliano
1	70/LM-0072	Principles of Chemical Engineering and Processes	ING-IND/24	B	9	90	Orrù Roberto
1	IA/0044	Integrated Course: Industrial and Energetic Processes					
1	IA/0045	Module: Industrial Processes	ING-IND/27	B	6	60	Mais Laura
2	IA/0277	Module: Hydrogen Technology and Fuel Cells	ING-IND/27	B	6	60	Mascia Michele
2	70/LM-0078	Environmental Conscious Energy and Chemical Processes	ING-IND/25	B	9	90	Mascia Michele

Second year – enrolled student a.y. 2021/22

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	IN/0240/EN	Process Modeling and Simulation 	ING-IND/26	B	9	90	Baratti Roberto Grosso Massimiliano
1	IA/0187/EN	Chemical and Biological Reactors 	ING-IND/24	B	9	90	Cincotti Alberto
2	IN/0241/EN	Advanced Systems of Process Control 	ING-IND/26	B	9	90	Tronci Stefania
2	IA/0188/EN	Safety and environmental chemical engineering with design project 	ING-IND/25	B	12	120	Concas Alessandro


enrolled student a.y. 2021/22 e 2020/21

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1-2		Courses from Table 1		C	18		

Table 1. Three courses among:

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	70/LM-0039	Fundamentals of Machine Design	ING-IND/14	C	6		Leban Bruno
1	IA/0033	Industrial Energy Technologies	ING-IND/09	C	6		Cau Giorgio
1	IN/0158	Biochemistry	BIO/10	C	6		Cabras Tiziana
1	IN/0159	Applied Biotechnology	CHIM/08	C	6		Onnis Valentina
1	13174	Project Management	SECS-P/08	C	6		Dessi Cinzia




2	IN/0233	Chemistry and Technology of Food	CHIM/10	C	6	Angioni Alberto
2	2487	Microbiology	MED/07	C	6	De Logu Alessandro
2	IA/0301/EN	Surface Forces and Adsorption 	CHIM/02	C	6	Parsons Drew F.




Civil Engineering (LM-23)

First year – enrolled student a.y. 2022/23

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	IA/0003	Geodesign	ICAR/20	C	6	60	Campagna Michele
	IA/0211	Integrated Course: Theory and Computational mechanics of structures					
1	IA/0181	- Module: Theory of Structures	ICAR/08	B	6	60	Spagnuolo Mario
2	IA/0209/EN	- Modulo: Computational mechanics of structures 	ICAR/08	B	6	60	Eremeev Victor
	IN/0141	Integrated Course: Construction of Road, Railways and Airport 2 and Transportation Planning					
1	IN/0142	- Module: Construction of Road, Railways and Airport 2	ICAR/04	B	6	60	Coni Mauro
2	IN/0143	- Module: Transportation Planning	ICAR/05	B	6	60	Meloni Italo
Curriculum Hydraulics							
1	IA/0070	Numerical Calculus	MAT/08	C	6	60	Buccini Alessandro
	IN/0144	Integrated Course: Hydraulics 2 and Maritime Hydraulics					
2	IN/0145	- Module: Hydraulics 2	ICAR/01	B	6	60	Badas Maria Grazia
2	IN/0146	- Module: Maritime Hydraulics	ICAR/01	B	6	60	Badas Maria Grazia
Curriculum Sustainable Smart Building and Constructions							
1	70/LM-0066	Mathematical Models and Methods in Engineering	MAT/09	C	6	60	Gorgone Enrico
		<i>One choice among:</i>					
2	IN/0124	Thermal HVAC Systems	ING-IND/11	C	6	60	Mastino Costantino C.
2	IA/0058	Real Estate Appraisal	ICAR/22	C	6	60	Blecic Ivan
2	IA/0120	Sustainable Spatial Planning	ICAR/20	C	6	60	Balletto Ginevra
2	IA/0119	Sustainable Building: Bioclimatic Design	ICAR/10	B	6	60	Desogus Giuseppe
Curriculum Structures							
1	IA/0070	Numerical Calculus	MAT/08	C	6	60	Buccini Alessandro
2	IN/0194	Theory and Design of Steel Construction	ICAR/09	B	6	60	Fenu Luigi
Curriculum Transportations							
1	70/LM-0066	Mathematical Models and Methods in Engineering	MAT/09	C	6	60	Gorgone Enrico
	70/LM-0112	Integrated Course: Transport System Design and Theory and Technology Traffic Flow					
2	70LM-01121	- Module: Transport System Design	ICAR/05	B	6	60	Fancello Gianfranco
2	70LM-01122	- Module: Theory and Technology Traffic Flow	ICAR/05	B	6	60	Olivo Alessandro



Second year – enrolled student a.y. 2021/22

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	70/LM-0040	Foundations and Earth Retaining Structure	ICAR/07	C	6	60	Soccodato Fabio M.
1	70/LM-0077	Watershed and Stream Restoration Engineering	ICAR/02	B	6	60	Montaldo Nicola
	IA/0210	Integrated Course: Design, Control and Inspection of Structures and Buildings in Wood and Masonry					
1	IA/0182	- Module: Design, Monitoring and Inspection Of Structures	ICAR/09	B	6	60	Stochino Flavio
2	IA/0184	- Module: Design of Timber and Masonry Structures	ICAR/09	B	6	60	Concu Giovanna
Curriculum Hydraulics							
1	IN/0189	Hydrological Models	ICAR/02	B	6	60	Deidda Roberto
2	IN/0190	Water Systems Planning and Management	ICAR/02	B	6	60	Cristiano Elena
2	IA/0062	Maritime Engineering	ICAR/02	B	6	60	Ruju Andrea
Curriculum Sustainable Smart Building and Constructions							
		<i>One choice among:</i>					
1	IA/0212	Urban Microclimatic design and natural building ventilation	ICAR/01	B	6	60	Ferrari Simone
1	IA/0121	Hydraulic services design	ICAR/02	B	6	60	Saba Andrea
1	IA/0122	Structural diagnosis and reinforcement of buildings	ICAR/09	B	6	60	Sassu Mauro Puppio Mario Lucio
	IA/0147	Integrated Course: Sustainable building					
2	IA/0147-1	- Module: Energy performance of building	ING-IND/11	C	6	60	Frattolillo Andrea
2	IA/0147-2	- Module: Building Information Modeling: from knowledge to integrated design	ICAR/11	B	6	60	Quaquero Emanuela
2	IA/0146	Integrated building design lab - Sustainable building		F	3	40	Quaquero Emanuela
Curriculum Structures							
2	IA/0185	Design of Bridges and Special Structures	ICAR/09	B	6	60	Mistretta Fausto
2	IA/0186/EN	Structural stability and limit analysis of structures 	ICAR/08	B	6	60	Eremeev Victor
	IA/0214	Integrated Course: Dynamics of Structures and Seismic Engineering					
1	IN/0055	- Module: Dynamics of structures	ICAR/08	B	6	60	Porcu Maria Cristina
2		- Module: Seismic Engineering	ICAR/09	B	6	60	Sassu Mauro Stochino Flavio



Curriculum Transportations							
2	70/LM-0095	Road, Airfield and Railway Pavements	ICAR/04	B	6	60	Coni Mauro
2	70/LM-0105	Logistic and Freight Transportation	ICAR/05	B	6	60	Fancello Gianfranco
2	70/LM-0106	<i>choose between:</i> Urban and Metropolitan Transport	ICAR/05	B	6	60	Sottile Eleonora
2	70/LM-0104	Rail Transport	ICAR/05	B	6	60	Olivo Alessandro




Other optional activities

Sem	Code course	Laboratories	SSD	TAF	ECTS	H	Teacher
1	IN/0154	Traffic Simulation Model Laboratory	ICAR/05	F	3	45	Meloni Italo
2	IN/0152	Structures Finite Element Modeling	ICAR/09	F	3	45	Sassu Mauro
2	IA/0064	Laboratory of Maritime Hydrodynamics Modelling	ICAR/01	F	3	45	Balzano Andrea
2	IN/0153	Laboratory of Integrated Design of Roads, Railways and Airports	ICAR/04	F	3	45	Maltinti Francesca
2	IN/0222	Watershed and Stream Restoration Engineering Laboratory	ICAR/02	F	3	45	Saba Andrea
2	IN/0151	Structural Reconditioning: Analysis, Diagnosis, Retrofitting	ICAR/09	F	3	45	Concu Giovanna





Internet Engineering (LM-27)

First year – enrolled student a.y. 2022/23

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	IN/0196	Integrated Course: Operating Systems and Law					
1	IA/0123/EN	- Module: Operating Systems 	ING-INF/05	C	7	70	Giacinto Giorgio
1	IA/0217	- Module: Legal Computer Science	IUS/20	C	4	40	Farina Massimo
1	IA/0075	Integrated course: Information Theory					
1	IA/0076	- Module: Codes	ING-INF/03	B	6	60	Giusto Daniele
1	IA/0126	- Module: Digital media	ING-INF/03	C	6	60	Perra Cristian
1	IA/0016	Integrated Course: Communication Systems					
1	IA/0169	- Module: Mobile Networks	ING-INF/03	B	6	60	Murroni Maurizio
2	IA/0018	- Module: Access Networks	ING-INF/03	B	6	60	Murroni Maurizio
2	IA/0116/EN	Cybersecurity Technologies and Risk Management 	ING-INF/05	C	8	80	Giacinto Giorgio Fumera Giorgio
2	IA/0134/EN	Stochastic models 	ING-INF/04	C	5	50	Pilloni Alessandro
2	70/LM-0074	Wireless Network Design	ING-INF/02	B	7	70	Casula G. Andrea
2	IA/0208	Project management and team working	ING-INF/03	F	3	30	Sanna Randaccio Luca

Second year – enrolled student a.y. 2021/22

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	IA/0167	Cloud networking e data analysis	ING-INF/03	C	5	50	Floris Alessandro
1	IA/0020/EN	Internet of things 	ING-INF/03	B	6	60	Nitti Michele
1	IA/0128	Integrated Course: Pervasive wireless communications					
1	IA/0135	- Module: Radiopropagation in wireless communications	ING-INF/02	B	5	50	Casula G. Andrea
2	IA/0136	- Module: Pervasive wireless systems	ING-INF/02	B	5	50	Mazzarella Giuseppe
2	IA/0178	Advanced networking	ING-INF/03	B	6	60	Atzori Luigi
1	IA/0125/EN	<i>Choose between:</i> Advanced embedded systems 	ING-INF/01	C	8	80	Meloni Paolo



	IA/0124	Integrated Course: Smart systems					
1	IA/0218	- Module: Network security	ING-INF/03	C	4	40	Martalò Marco
2	IA/0022	- Module: Smart housing	ING-INF/03	C	4	40	Pilloni Virginia

Other optional activities

Sem	Code course	Laboratories	SSD	TAF	ECTS	H	Teacher
2	IA/0030	iOS Programming	ING-INF/03	F	2	20	Atzori Luigi
2	IA/0219	Network security lab	ING-INF/03	F	2	20	Martalò Marco
2	IA/0152	Digital forensics	ING-INF/03	F	3	30	Farina Massimo



Electrical Engineering (LM-28)

First year – enrolled student a.y. 2022/23

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	70/LM-0064	Measurements for Electric Energy	ING-INF/07	B	9	90	Sulis Sara Muscas Carlo
1	IA/0172	Occupational Health and Safety	ING-IND/28	C	6	60	Dentoni Valentina
	IN/0115	Integrated Course: Power Systems: Analysis, Dynamics and Stability					
1	IN/0116	- Module: Power Systems Analysis and Control	ING-IND/33	B	6	60	Celli Gianni
2	IN/0117	- Module: Power Systems Dynamics and Stability	ING-IND/33	B	6	60	Celli Gianni
	IN/0125	Integrated Course: Electrical Energy Management and Electrical Vehicles					
1	IN/0127	- Module: Electrical Vehicles	ING-IND/32	B	5	50	Porru Mario
2	IN/0126	- Module: Electrical Energy Management	ING-IND/32	B	5	50	Damiano Alfonso Porru Mario
2	70/LM-0003	Analysis and Control of MIMO Systems	ING-INF/04	C	6	60	Usai Elio



Second year – enrolled student a.y. 2021/22

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	70/LM-0052	Power Systems Generation and Economics	ING-IND/33	B	9	90	Ghiani Emilio Pilo Fabrizio G.L.
1	70/LM-0032	Applied Electromagnetism in Electrical and Energy Engineering	ING-IND/31	B	9	90	Sias Giuliana
	IA/0113	Integrated Course: Design of Signal Processing Systems					
1	IA/0114	- Module: Design of Signal Processing Circuits	ING-IND/31	B	6	60	Cannas Barbara
2	IA/0139/EN	- Modulo: Data driven models for system engineering	ING-IND/31	B	6	60	Montisci Augusto
	IA/0008	Integrated Course: Electric Energy Conversion and Propulsion Systems					
2	IA/0009	- Module: Static Electric Energy Conversion and Electromagnetic Compatibility	ING-IND/32	B	6	60	Gatto Gianluca Kumar Amit
2	IA/0010	- Module: Electric Drives and Propulsion Systems	ING-IND/32	B	6	60	Serpi Alessandro





Electronic Engineering (LM-29)


First year – enrolled student a.y. 2022/23

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
	IA/0174	Integrated Course: Electronic Systems and Components					
1	IA/0143	- Module: Reliability of Electronic Components	ING-INF/01	B	5	50	Mura Giovanna
1	IA/0139	- Module: Microcontroller-Based Systems	ING-INF/01	B	6	60	Meloni Paolo
1	IA/0145	- Module: Radio-Frequency Planar Circuits	ING-INF/02	B	5	50	Montisci Giorgio
2	70/LM-0088	Automatic Measurement Systems	ING-INF/07	B	6	60	Pegoraro Paolo A.
	IA/0173	Integrated Course: Control and Wireless Communication Systems					
2	IA/0136	- Module: Pervasive Wireless Systems	ING-INF/02	B	5	50	Mazzarella Giuseppe
2	IA/0140	- Module: Wireless Networks Access Technologies	ING-INF/03	C	3	30	Murroni Maurizio
2	IA/0141	- Module: Digital Control	ING-INF/04	C	3	30	Pisano Alessandro Giua Alessandro
	IN/0200	Integrated Course: Integrated Circuits					
1	IN/0201	- Module: Digital Integrated Circuits	ING-INF/01	B	5	50	Barbaro Massimo
2	IN/0202	- Module: Analog Integrated Circuits	ING-INF/01	B	5	50	Barbaro Massimo
Curriculum Embedded Electronics							
1	IA/0123/EN	Operating Systems 	ING-INF/05	C	7	70	Giacinto Giorgio
Curriculum Electronic Technologies for Emerging Applications							
1	IA/0154/EN	Nanoelectronics 	FIS/03	C	5	50	Melis Claudio

Second year – enrolled student a.y. 2021/22

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
2	IA/0146/EN	Mixed-Signal Circuits and Systems 	ING-INF/01	B	6	60	Barbaro Massimo Collu Riccardo Leone Gianluca
Curriculum Embedded Electronics 							
1	IA/0125/EN	Advanced Embedded Systems	ING-INF/01	B	8	80	Meloni Paolo
1	IA/0205/EN	Artificial Intelligence	ING-INF/05	C	6	60	Fumera Giorgio
1	IA/0020/EN	Internet of Things	ING-INF/03	C	6	60	Nitti Michele
2	IA/0147/EN	Analysis and Control of Cyber-Physical Systems	ING-INF/04	C	6	60	Giua Alessandro Cai Kai
2	IA/0148/EN	Cyber-Physical System Architectures	ING-INF/01	B	5	50	Bodano Emanuele Morelli Andrea Solinas Antonio



Curriculum Electronic Technologies for Emerging Applications 							
1	IA/0153/EN	Data Acquisition Technologies	ING-INF/07	B	6	60	Pegoraro Paolo A. Castello Paolo
1	IA/0149/EN	Optoelectronics, Diagnostics and Aerospace Applications	ING-INF/01	B	7	70	Mura Giovanna Martines Giovanni
1	IA/0151/EN	Wearable and Flexible Electronics	ING-INF/01	B	7	70	Cosseddu Piero
2	IA/0152/EN	Biosensors and Bioelectronics	ING-INF/06	C	6	60	Lai Stefano
2	IA/0189/EN	Microwave systems and sensors	ING-INF/02	B	7	70	Montisci Giorgio



Energetic Engineering (LM-30)

First year – enrolled student a.y. 2022/23

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	70/LM-0032	Applied Electromagnetism in Electrical and Energy Engineering	ING-IND/31	C	6	60	Sias Giuliana
	IN/0122	Integrated Course: Energetics and Thermal Hvac Systems					
1	IN/0123	- Module: Energetics	ING-IND/11	B	6	60	Frattolillo Andrea
2	IN/0124	- Module: Thermal Hvac Systems	ING-IND/11	B	6	60	Mastino Costantino C.
2	70/LM-0038	Nuclear Reactor Physics	FIS/04	C	6	60	Cicalò Corrado
2	70/LM-0043	Exploration Geophysics	GEO/11	C	6	60	Vignoli Giulio
		<i>3 courses among:</i>					
1	70/LM-0010	Automatic Control Systems	ING-INF/04	C	6	60	Pisano Alessandro
1	70/0068-M	Fluid Machinery and Energy Systems	ING-IND/09	C	6	60	Cocco Daniele
1	IA/0278	Electrical Machines and Drives	ING-IND/32	C	6	60	Damiano Alfonso Serpi Alessandro
2	IA/0178	Advanced networking	ING-INF/03	C	6	60	Atzori Luigi
2	IA/0040	Environmental Impact Energy Systems	ING-IND/09	C	6	60	Tola Vittorio
2	IN/0029	Fundamentals of Electric Power Distribution and Smart Grids	ING-IND/33	C	6	60	Pilo Fabrizio G.L. Ghiani Emilio
2	IA/0277	Hydrogen Technology and Fuel Cells	ING-IND/27	C	6	60	Mascia Michele
2	IN/0033	Internet	ING-INF/03	C	6	60	Atzori Luigi
2	IN/0143	Transportation Planning	ICAR/05	C	6	60	Meloni Italo




Second year – enrolled student a.y. 2021/22

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	70/LM-0052	Power Systems Generation and Economics	ING-IND/33	B	9	90	Ghiani Emilio Pilo Fabrizio G.L.
1	IN/0125	Integrated Course: Electrical Energy Management and Electrical Vehicles					
1	IN/0127	- Module: Electrical Vehicles	ING-IND/32	B	5	50	Porru Mario
2	IN/0126	- Module: Electrical Energy Management	ING-IND/32	B	5	50	Porru Mario Damiano Alfonso
1	IA/0032	Integrated Course: Renewable and Industrial Energy Technologies					
1	IA/0033	- Module: Industrial Energy Technologies	ING-IND/09	B	6	60	Cau Giorgio
2	70/LM-0098	- Module: Renewable Energy Technologies	ING-IND/09	B	6	60	Cocco Daniele
2	IA/0034	EMC and Power Electronic Energy Conversion	ING-IND/32	B	6	60	Gatto Gianluca Kumar Amit

Other available activities

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	IA/0037	Electric Drives for Electric Propulsion Lab	ING-IND/32	F	3	30	Serpi Alessandro
2	IA/0035	Electrical Energy Management Systems Lab	ING-IND/32	F	2	20	Damiano Alfonso
1	IN/0154	Traffic Simulation Model Laboratory	ICAR/05	F	3	45	Meloni Italo
1	IN/0131	Modeling and Simulation of Energy Systems	ING-IND/09	F	3	30	Petrollese Mario
1	13174	Project Management	SECS-P/08	F	4	36	Dessi Cinzia
1	IN/0066	Symulation of Dynamical Systems with Matlab-Simulink	ING-INF/04	F	3	30	Pisano Alessandro
1	IA/0279	Technologies for Energy Efficiency	ING-IND/09	F	3	30	Petrollese Mario
2	IA/0175	Control of Energy Systems	ING-INF/04	F	3	30	Pisano Alessandro
2	IA/0043	Smart Grid Lab	ING-IND/33	F	2	20	Ruggeri Simona



**Computer Engineering, Cybersecurity and Artificial Intelligence
(LM-32) **

First year – enrolled student a.y. 2022/23

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	IA/0113/EN	Industrial Software Development	ING-INF/05	B	8	80	Biggio Battista Didaci Luca
1	IA/0123/EN	Operating Systems	ING-INF/05	B	7	70	Giacinto Giorgio
1	IA/0115/EN	Supervisory control and monitoring	ING-INF/04	B	9	90	Seatzu Carla Usai Elio
1	IA/0114/EN	Integrated Course: Intelligent Systems					
	IA/0205/EN	- Module: Artificial Intelligence	ING-INF/05	B	6	60	Fumera Giorgio
2	IA/0013/EN	- Module: Machine Learning	ING-INF/05	B	6	60	Biggio Battista Roli Fabio
2	IA/0116/EN	Cybersecurity Technologies and Risk Management	ING-INF/05	B	8	80	Giacinto Giorgio Fumera Giorgio
2	IA/0117/EN	Fault diagnosis and estimation in dynamical systems	ING-INF/04	B	5	50	Franceschelli Mauro

Second year – enrolled student a.y. 2021/22

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
	IA/0124/EN	Integrated Course: Embedded Systems					
1	IA/0125/EN	- Module: Advanced Embedded Systems	ING-INF/01	C	8	80	Meloni Paolo
1	IA/0020/EN	- Module: Internet of Things	ING-INF/03	C	6	60	Nitti Michele
1	IA/0127/EN	Web Security and Malware Analysis	ING-INF/05	B	6	60	Maiorca Davide
	IA/0128/EN	Integrated Course: Computer Forensics					
2	IA/0129/EN	- Module: Computer Forensics Techniques	ING-INF/05	B	5	50	Maiorca Davide Bonu Alessandro Savoldi Luca
2	IA/0130/EN	- Module: Computer Law	IUS/20	C	5	50	Farina Massimo
		<i>one choice among:</i>					
1	IA/0207/EN	Machine learning security	ING-INF/05	B	5	50	Biggio Battista
2	IA/0131/EN	Biometric Technologies and Behavioural Security	ING-INF/05	B	5	50	Marcialis Gian Luca
2	IA/0140/EN	Networked control systems and security	ING-INF/04	B	5	50	Franceschelli Mauro
2	IA/0134/EN	Stochastic Models	ING-INF/04	B	5	50	Pilloni Alessandro



enrolled student a.y. 2022/23 e 2021/22

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1-2		Courses from Table 1		C	6		

Table 1. One course among:

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1st year							
	IA/0118/EN	Integrated Course: Smart Grid and Critical Infrastructures					
2	IA/0119/EN	- Module: Industrial Informatics for energy storage systems	ING-IND/32	C	2	20	Damiano Alfonso
2	IA/0120/EN	- Module: Critical infrastructures for innovative power distribution	ING-IND/33	C	2	20	Ruggeri Simona
2	IA/0121/EN	- Module: Measurements and Cybersecurity for Smart Grid	ING-INF/07	C	2	20	Pegoraro Paolo A.
2	IA/0139/EN	Data driven models for system engineering	ING-IND/31	C	6	60	Montisci Augusto
2nd year							
1	IA/0122/EN	Physical-layer techniques for Wireless communication security	ING-INF/02	C	6	60	Mazzarella Giuseppe



Mechanical Engineering (LM-33)

First year – enrolled student a.y. 2022/23

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	IN/0227	Mechanics of Materials	ING-IND/14	B	6	60	Aymerich Francesco
1	70/LM-0090	Manufacturing Systems	ING-IND/16	B	6	60	Buonadonna Pasquale
1	IA/0072	Integrated Course: Industrial Systems					
1	IA/0073	- Module: Industrial Systems Management	ING-IND/17	B	6	60	Pilloni Maria Teresa
2	IA/0074	- Module: Industrial Systems Design	ING-IND/17	B	6	60	Orrù Pier Francesco
2	IA/0216	Mechatronics	ING-IND/13	B	9	90	Rea Pierluigi
		<i>Taf B Course to chose</i>					
1	70/LM-0056	Finite Elements Analysis	ING-IND/14	B	6	60	Bertolino Filippo
2	IA/0176	Maintenance Management for Industrial Systems	ING-IND/17	B	6	60	<i>to be defined</i>
2	IN/0065	Mechanics of Composite Materials	ING-IND/14	B	6	60	Aymerich Francesco
2	IA/0204	Industrial Robotics	ING-IND/13	B	6	60	Ruggiu Maurizio Rea Pierluigi
2	70/LM-0098	Renewable Energy Technologies	ING-IND/09	B	6	60	Cocco Daniele
		<i>Taf C Course to chose</i>					
1	70/LM-0010	Automatic Control Systems	ING-INF/04	C	6	60	Pisano Alessandro
1	IA/0070	Numerical Calculus	MAT/08	C	6	60	Fermo Luisa
2	IN/0124	Thermal HVAC Systems	ING-IND/11	C	6	60	Mastino Costantino C.
2	IA/0205	Economic and Management Engineering	ING-IND/35	C	6	60	Morea Donato

Second year – enrolled student a.y. 2021/22

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	IA/0033	Industrial Energy Technologies	ING-IND/09	B	9	90	Cau Giorgio Petrollese Mario
2	IA/0039	Design of Fluid Machinery	ING-IND/08	B	9	90	Ghisu Tiziano Puddu Pierpaolo
		<i>Taf B Course to chose</i>					
1	IN/0064	Computational Modeling of Fluid Systems	ING-IND/08	B	6	60	Ghisu Tiziano
1	IN/0228	Experimental Mechanics	ING-IND/14	B	6	60	Baldi Antonio
1	IA/0150	Management of Energy Processes	ING-IND/09	B	6	60	Tola Vittorio
1	IN/0129	Quality Management	ING-IND/16	B	6	60	El Methedi Mohamad
2	IA/0206	Advanced Theory of Structures	ICAR/08	B	6	60	Brun Michele
2	IA/0040	Environmental Impact Energy Systems	ING-IND/09	B	6	60	Tola Vittorio
2	70/LM-0096	Experimentation in Fluid Machines	ING-IND/08	B	6	60	Cambuli Francesco
		<i>Taf C Course to chose</i>					
1	13174	Project management	SECS-P/08	C	6	36	Dessi Cinzia
1	2582	Business Organization	SECS-P/10	C	6	36	Pinna Roberta
2	IA/0010	Electric Drives and Propulsion Systems	ING-IND/32	C	6	60	Serpi Alessandro



Other available activities

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	IN/0131	Modeling and Simulation of Energy Systems	ING-IND/09	F	3	30	Petrollese Mario
1	IN/0066	Symulation of Dynamical Systems with Matlab-Simulink	ING-INF/04	F	3	30	Pisano Alessandro
2	IA/0177	Introduction to Structural Dynamics	ING-IND/14	F	3	30	Bertolino Filippo
2	IN/0130	Nondestructive Testing	ING-IND/14	F	3	30	Pau Massimiliano
2	IN/0229	Mechanical Design Project	ING-IND/14	F	3	30	Leban Bruno



**Environmental Engineering for Sustainable Development
(Environmental and Land Engineering)
(LM-35)**

First year – enrolled student a.y. 2022/23 Environmental Engineering for Sustainable Development

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	IA/0155	Numerical Computing: Methods, Models and Algorithm	MAT/08	C	6	60	Fermo Luisa
1	IA/0156	Scientific Computing Workshop	MAT/08	F	3	30	Fenu Caterina
1	70/LM-0044	Environmental Geoengineering	ING-IND/28	B	6	60	Grosso Battista
1	70/LM-0048	Environmental Hydraulics	ICAR/01	B	6	60	Querzoli Giorgio
1	IN/0133	Integrated Course: Remediation and Chemical-Physical Treatment of Soils					
2	IN/0135	- Module: Chemical-Physical Treatment of Soils	ING-IND/29	B	6	60	Tilocca M. Caterina
2	IN/0134	- Module: Contaminated Sites Remediation	ICAR/03	B	6	60	Muntoni Aldo
2	IA/0315	Geodesign Lab	ICAR/20	F	3	50	Campagna Michele
2	70/LM-0042	Applied Geophysics	GEO/11	B	6	60	Deidda Gian Piero
2	70/LM-0050	Hydrogeology	GEO/05	B	6	60	Uras Gabriele
2	IN/0132	Impact Assessment and Environmental Rehabilitation	ING-IND/28	B	6	60	Massacci Giorgio

Second year – enrolled student a.y. 2021/22 Environmental and Land Engineering

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
		<i>one choice among:</i>					
1	70/LM-0040	Foundations and Earth Retaining Structures	ICAR/07	C	6	60	Soccodato Fabio M.
1	70/LM-0054	Photogrammetry	ICAR/06	C	6	60	Vacca Giuseppina
1	IN/0193	Recovery of Secondary Raw Materials	ING-IND/29	C	6	60	Surracco Marco
2	70/LM-0007	Geochemical Characterization	GEO/09	C	6	60	Valera Paolo
2	70/LM-0001	Water Supply and Sewerage	ICAR/02	C	6	60	Viola Francesco
2	IA/0042	Design of Environmental Remediation and Decontamination Systems	ICAR/03	C	6	60	De Gioannis Giorgia
2	70/LM-0087	Safety and Project Management at Construction Sites	ING-IND/28	C	6	60	Dentoni Valentina



Curriculum Environmental Technologies								
1	IA/0197/EN	Sustainable solid waste management		ICAR/03	B	9	90	Muntoni Aldo
1	IA/0155/EN	Wastewater Treatment Plants		ICAR/03	B	9	90	Carucci Alessandra Cappai Giovanna S.
2	IN/0073	Integrated Course: Treatment of Fluids and Waste Gases						
2	IN/0074	- Module: Treatment of Fluids		ING-IND/29	B	6	60	Surracco Marco
2	IN/0245/EN	- Module: Control and Treatment of Atmospheric Emissions		ICAR/03	B	6	60	Cappai Giovanna S.
Curriculum Geo-engineering and Land Protection								
1	IN/0070	Integrated Course: Hydrogeological Protection						
1	IN/0071	- Module: Watershed and Stream Restoration Engineering		ICAR/02	B	6	60	Montaldo Nicola
1	IN/0072	- Module: Slope Instability and Hydrogeological Risk		GEO/05	B	6	60	Uras Gabriele
1	IN/0136	Integrated Course: Rock Engineering						
1	IN/0137	- Module: Rock Mechanics		ING-IND/28	B	6	60	Grosso Battista
2	IN/0138	- Module: Excavation Engineering and Underground Works		ING-IND/28	B	6	60	Careddu Nicola
2	IN/0210	<i>choose between:</i> Coastal Hydraulics		ICAR/01	B	6	60	Badas Maria Grazia
2	IN/0211	Design and Management of Geoengineering Works for Environment Protection		ING-IND/28	B	6	60	Careddu Nicola
Curriculum Regional and Urban Planning								
1	70/LM-0111	Spatial Planning		ICAR/20	B	6	60	Campagna Michele
1	IN/0067/EN	Integrated Course: Strategic Environmental Planning						
2	IN/0068/EN	- Module: Environmental Planning		ICAR/20	B	6	60	Garau Chiara
2	IN/0242/EN	- Module: Strategic Planning		ICAR/20	B	6	60	Lai Sabrina
2	70/LM-0116	Integrated Course: Georesources Planning						
2	70LM-01161	- Module: Regional Planning of Georesources		ICAR/20	B	6	60	Balletto Ginevra
2	70LM-01162	- Module: Georesources		GEO/09	C	6	60	Naitza Stefano

Laboratories that can be chosen by students to satisfy part of the credits of own free choice

Sem	Code course	Laboratory	SSD	ECTS	H	Teacher
1	IN/0220	Sanitary and Environmental Engineering Laboratory	ICAR/03	2	25	De Gioannis Giorgia
2	IA/0198	Laboratory of Chemistry for Environmental Engineering	CHIM/03	2	25	Serpe Angela
2	IA/0170	Environmental Geophysics Lab	GEO/11	3	30	Deidda Gian Piero
2	IA/0001	Workshop of Regional Planning	ICAR/20	3	45	Lai Sabrina Zoppi Corrado
2	IN/0221	Laboratory of Safety and Project Management at Construction Sites	ING-IND/28	3	25	Pinna Francesco

Other optional activities can be communicated on course web site.