



## Faculty of Engineering and Architecture

Web site: <http://facolta.unica.it/ingegneriarchitettura/?lang=en>

### Academic Year 2020/2021

#### 1. Degree Programmes A.Y. 2020/21

In academic year 2020/21 the Faculty of Engineering and Architecture offers the following degree programmes:

<b>Bachelor's degree programmes</b> (Italian course classification)	<b>Web site</b>
Architectural Science (L-17)	<a href="http://corsi.unica.it/scienzedellarchitettura/">http://corsi.unica.it/scienzedellarchitettura/</a>
Biomedical Engineering (L-8 & L-9)	<a href="http://corsi.unica.it/ingegneriabiomedica/">http://corsi.unica.it/ingegneriabiomedica/</a>
Chemical Engineering (L-9)	<a href="http://people.unica.it/ingegneriachimica/">http://people.unica.it/ingegneriachimica/</a>
Civil Engineering (L-7)	<a href="http://corsi.unica.it/ingegneriacivile/">http://corsi.unica.it/ingegneriacivile/</a>
Electrical, Electronic and Computer Engineering (L-8 & L-9)	<a href="http://corsi.unica.it/ingegneriaelettricaeelettronica/">http://corsi.unica.it/ingegneriaelettricaeelettronica/</a>
Environmental and Land Engineering (L-7)	<a href="http://corsi.unica.it/ambienteeterritorio/">http://corsi.unica.it/ambienteeterritorio/</a>
Mechanical Engineering (L-9)	<a href="http://people.unica.it/meccanica/">http://people.unica.it/meccanica/</a>
<b>Master's degree programmes</b> (Italian course classification)	<b>Web site</b>
Architecture (LM-4)	<a href="http://corsi.unica.it/architettura/">http://corsi.unica.it/architettura/</a>
Chemical and Biotechnological Process Engineering (LM-22)	<a href="http://people.unica.it/ingprochimbiotec/">http://people.unica.it/ingprochimbiotec/</a>
Civil Engineering (LM-23)	<a href="http://corsi.unica.it/ingegneriacivile/">http://corsi.unica.it/ingegneriacivile/</a>
Computer Engineering, Cybersecurity and Artificial Intelligence (LM-32)	<a href="https://www.unica.it/unica/it/crs_70_90.page">https://www.unica.it/unica/it/crs_70_90.page</a>
Electrical Engineering (LM-28)	<a href="http://corsi.unica.it/ingegneriaelettrica/">http://corsi.unica.it/ingegneriaelettrica/</a>
Electronic Engineering (LM-29)	<a href="http://corsi.unica.it/ingegneriaelettronica/">http://corsi.unica.it/ingegneriaelettronica/</a>
Energetic Engineering (LM-30)	<a href="http://corsi.unica.it/ingegneriaenergetica/">http://corsi.unica.it/ingegneriaenergetica/</a>
Environmental and Land Engineering (LM-35)	<a href="http://corsi.unica.it/ambienteeterritorio/">http://corsi.unica.it/ambienteeterritorio/</a>
Internet Engineering (LM-27)	<a href="https://www.unica.it/unica/it/crs_70_91.page">https://www.unica.it/unica/it/crs_70_91.page</a>
Mechanical Engineering (LM-33)	<a href="http://people.unica.it/meccanica/">http://people.unica.it/meccanica/</a>



The School that supplies these programmes is the Faculty of Engineering and Architecture, located in the sites of [piazzza 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	Number of students admitted	
			total	Foreign students (non EU + Chinese Marco Polo programme)
Civil Engineering (70/72)	15 <sup>th</sup> – 17 <sup>th</sup> July 2020	local restricted access	180	3
Environmental and Land Engineering (70/73)		free access	-	10
Chemical Engineering (70/77)	27 <sup>th</sup> – 31 <sup>st</sup> August 2020	free access	-	15
Mechanical Engineering (70/78)	1 <sup>st</sup> – 3 <sup>rd</sup> – 4 <sup>th</sup> September 2020	local restricted access	180	4
Biomedical Engineering (70/75)		local restricted access	180	5
Electrical, Electronic and Computer Engineering (70/89)		local restricted access	180	4
Architectural Science (80/71)	16 <sup>th</sup> September 2020	national restricted access	108	8

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 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	Number of students admitted	
			total	Foreign students (non EU + Chinese Marco Polo programme)
Architecture (80/72)	15 <sup>th</sup> September 2020	local restricted access	80	4
Chemical and Biotechnological Process Engineering (70/88)	16 <sup>th</sup> September 2020	open access	-	15
Civil Engineering (70/80)	23 <sup>th</sup> September 2020	open access	-	10
Computer Engineering, Cybersecurity and Artificial Intelligence (70/90)	18 <sup>th</sup> September 2020	open access	-	40



Internet Engineering (70/91)	21 <sup>st</sup> September 2020	open access	-	17
Electrical Engineering (70/82)	22 <sup>nd</sup> September 2020	open access	-	10
Electronic Engineering (70/83)	24 <sup>th</sup> September 2020	open access	-	11
Energetic Engineering (70/84)	22 <sup>nd</sup> September 2020	open access	-	15
Mechanical Engineering (70/85)	18 <sup>th</sup> September 2020	open access	-	11
Environmental and Land Engineering (70/86)	17 <sup>th</sup> September 2020	open access	-	20

The admission to the Master's Degree of Architecture (16<sup>th</sup> 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 [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 < 20/60), 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.

### 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
Civil Engineering (70/72)	English	B1	3
Environmental and Land Engineering (70/73)	English	B1	3
Chemical Engineering (70/77)	English	B1	3
Mechanical Engineering (70/78)	English	B1	3
Biomedical Engineering (70/75)	English	B1	3
Electrical, Electronic and Computer Engineering (70/89)	English	B1	3
Architectural Science (80/71)	English or other EU language*	B1	3
Architecture (80/72)	English or other EU language*	B2	3
Chemical and Biotechnological Process Engineering (70/88)	English	B2	3
Electronic Engineering (70/83)	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 calendar and schedule > [teaching and academic calendar](#).

**First semester:** 28/09/2020 – 22/12/2020;

**Second semester:** 01/03/2021 – 04/06/2021.

Course schedule is online on Faculty web site at the menù calendar and schedule > [lecture schedule](#).

## 6. Course attendance

The course attendance is mandatory.

## 7. Syllabi

Course outlines can be found on the Faculty web site at the menù education > [Course search](#).

## 8. Exam sessions

The exam dates are 7, distributed as:

- 3 from 7<sup>th</sup> January to 27<sup>th</sup> February 2021;
- 3 from 7<sup>th</sup> June to 30<sup>th</sup> July 2021;
- 1 from 1<sup>st</sup> September to 25<sup>th</sup> September 2021.

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

Exam schedule is also on Unica web at link [Servizi online agli studenti - Exams](#).

To register to an exam on-line, go to [Servizi online agli studenti](#) – Login, using your University User ID and Password.

## 9. Teaching courses a.y. 2020/2021

The teaching courses in academic year 2020/2021 are available in Annex A, for each degree programme.



**Annex A- Degree Programmes and teaching courses available in  
A.Y. 2020/2021**

**Bachelor degrees**

- [Civil Engineering](#) – L-7
- [Environmental and Land Engineering](#) – L-7
- [Chemical Engineering](#) – 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

**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 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. 2020/21

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					
1	70/0001-M	- Module: Chemistry	CHIM/07	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	Vanini Cristina
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. 2019/20

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	IN/0188	Mathematical Analysis 2	MAT/05	A	8	80	Schirru Piermario
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	Di Francesco Massimo
2	70/0080-M	Construction Theory	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	Fadda Paolo Devoto Roberto

### Third year – enrolled student a.y. 2018/19

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	IA/0048	Hydrology and Statistics	ICAR/02	B	8	80	Sechi Giovanni M.
1	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.
1	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



	IN/0093	Integrated Course: Geotechnics and Construction of Road, Railways and Airport					
2	IN/0094	- Module: Geotechnics	ICAR/07	B	6	60	Soccodato Fabio
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:
2019/20	Mathematical Analysis 1 Geometry and Algebra Physics 1	All 2nd year exams
2018/19	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. 2020/21

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	IN/0186	Mathematical Analysis 1	MAT/05	A	9	90	Vigialoro Giuseppe
1	70/0001-M	Chemistry	CHIM/07	A	6	60	Serpe Angela
1	70/0006-M	Fundamentals of Computer Science	ING-INF/05	A	6	60	Fumera Giorgio
1	IA/0049	Environmental and Land Engineering		F	1	25	Deidda Gian Piero
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	5	50	Vanini Cristina

### Second year – enrolled student a.y. 2019/20

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	IN/0188	Mathematical Analysis 2	MAT/05	A	8	80	Schirru Piermario
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	5	50	Montisci Augusto
2	70/0054-M	Transport Phenomena in Environmental Protection	ING-IND/24	C	6	60	Locci Antonio M.
2	70/0059-M	Hydraulics	ICAR/01	B	10	100	Balzano Andrea

### Third year – enrolled student a.y. 2018/19

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





2	70/0077-M	Regional Planning	ICAR/20	B	8	80	Zoppi Corrado
	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	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/0220	Sanitary and Environmental Engineering Laboratory	ICAR/03	2	25	Cappai Giovanna S.

Other optional activities can be communicated on course web site.

**Activities rules**

Academic Year Enrolment	If you do not pass:	You cannot take:
2019/20	Mathematical Analysis 1 Geometry and Algebra Physics 1	All 2nd year exams
2018/19	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.



## Chemical Engineering (L-9)

### First year – enrolled student a.y. 2020/21

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 1	CHIM/07	A	9	90	Vacca Annalisa
1	IA/0051	Chemistry Laboratory	CHIM/07	F	3	30	Vacca Annalisa
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
2	IN/0079	Geometry and Algebra	MAT/03	A	7	70	Mei Carlo
2	IA/0052	Introduction to Chemical Engineering	ING-IND/24	F	3	30	Cao Giacomo

### Second year – enrolled student a.y. 2019/20

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	IN/0188	Mathematical Analysis 2	MAT/05	A	8	80	Schirru Piermario
1	70/0017-M	Chemistry 2	CHIM/07	A	9	90	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	IA/0153	Fundamentals of Mass, Energy and Momentum Transport	ING-IND/24	B	6	60	Cao Giacomo
2	70/0072-M	Fluid Mechanics	ICAR/01	C	9	90	Ferrari Simone

### Third year – enrolled student a.y. 2018/19

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	Mais Laura 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:
2019/20	Mathematical Analysis 1 Geometry and Algebra Physics 1	All 2nd year exams
2018/19	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.



## Mechanical Engineering (L-9)

### First year – enrolled student a.y. 2020/21

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	IN/0186	Mathematical Analysis 1	MAT/05	A	9	90	Schirru Piermario
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	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	Salis Marcello
2	70/0006-M	Fundamentals of Computer Science	ING-INF/05	A	6	60	Marcialis Gian Luca
2	IN/0079	Geometry and Algebra	MAT/03	A	7	70	Mei Carlo

### Second year – enrolled student a.y. 2019/20

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	Licheri Roberta
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	70/0086-M	Manufacturing Technology	ING-IND/16	B	9	90	El Mehtedi Mohamad
2	70/0053-M	Electrotechnics	ING-IND/31	C	6	60	Cannas Barbara
2	70/0057-M	Fundamentals of Machine Design	ING-IND/14	B	9	90	Carta Giorgio

### Third year – enrolled student a.y. 2018/19

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	70/0066-M	Fluid Machinery	ING-IND/08	B	9	90	Puddu Pierpaolo
1	70/0070-M	Applied Mechanics	ING-IND/13	B	12	120	Ruggiu Maurizio
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	IN/0234	Industrial Plans	ING-IND/17	B	9	90	Pilloni M. Teresa
2	IA/0007	Measurements in Fluid Machines	ING-IND/08	C	6	60	Cambuli Francesco
2	70/0082-M	Energy Systems	ING-IND/09	B	9	90	Cau Giorgio



**Activities rules**

<b>Academic Year Enrolment</b>	<b>If you do not pass:</b>	<b>You cannot take:</b>
2020/21	Physics 1	Physics 2
2019/20	Mathematical Analysis 1 Geometry and Algebra Physics 1	All 2nd year exams
2018/19	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. 2019/20

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	IN/0186	Mathematical Analysis 1	MAT/05	A	9	90	Pintus Nicola
1	70/0001-M	Chemistry	CHIM/07	A	6	60	Pilia Luca
1	70/0004-M	Physics 1	FIS/01	A	8	80	Concas Giorgio
	IN/0155	Integrated Course: Information Processing Systems					
1	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	Roli Fabio
2	70/0005-M	Physics 2	FIS/01	A	7	70	Filippetti Alessio
2	IN/0079	Geometry and Algebra	MAT/03	A	7	70	Zuddas Fabio
	IA/0065	Integrated Course: Human Body Biology					
2	IN/0038	- Module: Human Anatomy	BIO/16	C	4	40	Cocco Cristina
2	IN/0012	- Module: Biochemistry	BIO/10	C	2	20	<i>to be defined</i>
2	IN/0039	- Module: Fundamentals of Physiology	BIO/09	C	3	30	Tomassini Barbarossa Iole Melis Melania

### Second year – enrolled student a.y. 2019/20

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	IN/0188	Mathematical Analysis 2	MAT/05	A	8	80	Iannizzotto Antonio
	IN/0236	Integrated Course: Fundamentals of Mechanics and Biomaterials					
1	IN/0165	- Module: Fundamentals of Mechanics and Biomechanics	ING-IND/13	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	Cosseddu Piero
2	IN/0217	- Module: Digital Electronics	ING-INF/01	B	5	50	Raffo Luigi



Third year – enrolled student a.y. 2018/19

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
1	IN/0212	Integrated Course: Bioelectronics					
1	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
1	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 Deidda Simona
2		<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
2		<i>One choice among:</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

Activities rules

Academic Year Enrolment	If you do not pass:	You cannot take:
2020/21	Physics 1	Physics 2
	I. C.: Human Body Biology	Chemistry
2019/20	Mathematical Analysis 1 Geometry and Algebra Physics 1	All 2nd year exams
	I. C.: Fundamentals of Mechanics and Biomaterials	Chemistry
2018/19	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)

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 1st and the 2nd year with the asterisk.

### First year – enrolled student a.y. 2020/21

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	Possenti Andrea
1	IN/0155	Integrated Course: Information Processing Systems					
1	IN/0156	- Module: Fundamentals of Computer Science*	ING-INF/05	A	6	60	Fraschini Matteo
2	IN/0157	- Module: Computer Architectures*	ING-INF/05	A	6	60	Roli Fabio
2	70/0001-M	Chemistry*	CHIM/07	A	6	60	Pilia 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	Pintus Nicola
2	IN/0005	Communication Networks*	ING-INF/03	C	6	60	Nitti Michele

### Second year – enrolled student a.y. 2019/20

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
1	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	Usai Elio
2	IN/0022	Fundamentals of Electronics*	ING-INF/01	B/C	10	100	Martines Giovanni
2	IN/0021	Electrical and Electronic Measurements*	ING-INF/07	B	9	90	Muscas Carlo
<b>Curriculum Electrical Engineering</b>							
1	70/0055-M	Engineering Physics*	ING-IND/11	C	6	60	Baccoli Roberto
<b>Curriculum Electronic Engineering</b>							
1	IA/0149	Fundamentals of Telecommunication*	ING-INF/03	C	6	60	Giusto Daniele
<b>Curriculum Computer Engineering</b>							
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. 2018/19

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	IN/0023	Integrated Course: Power Electronics and Electrical Power Systems					
	IN/0024	- Module: Power Electronics	ING-IND/32	B/C	6	60	Gatto Gianluca
	IN/0025	- Module: Fundamentals of Electric Power Systems	ING-IND/33	B	6	60	Pilo Fabrizio G.L.
<b>Curriculum Electrical Engineering</b>							
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	Damiano Alfonso
2	IN/0029	Fundamentals of Electric Power Distribution and Smart Grids	ING-IND/33	B/C	6	60	Pilo Fabrizio G.L.
<b>Curriculum Electronic Engineering</b>							
1	IN/0027	Semiconductor Physics	FIS/03	C	6	60	Hahn Konstanze R.
1	70/0078-M	Digital Systems Design	ING-INF/01	B/C	8	80	Raffo Luigi
2	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	Vanzi Massimo
<b>Curriculum Computer Engineering</b>							
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	<i>to be defined</i>

Activities rules

Academic Year Enrolment	If you do not pass:	You cannot take:
2020/21	Physics 1	Physics 2
2019/20	Mathematical Analysis 1 Geometry and Algebra Physics 1	All 2nd year exams
2018/19	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. 2020/21

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	IA/0050	Architectural Drawing and Representation	ICAR/17	A	8	80	Bagnolo Vincenzo
	AR/0020	Integrated Course in Mathematics					
1	AR/0022	- Module: Geometry	MAT/03	A	5	50	Ratto Andrea
2	AR/0021	- Module: Mathematical Analysis	MAT/05	A	5	50	<i>to be defined</i>
1-2	80/034	History of Architecture 1	ICAR/18	A	8	80	Cadinu Marco
	IA/0162	Integrated Laboratory of Design and Construction of Architecture 1					
1-2	AR/0025	- Module: Architectural Design 1	ICAR/14	B	10	100	Peghin Giorgio M. ( <i>course A</i> ) Cocco Giovanni B. ( <i>course B</i> )
1-2	AR/0026	- Module: Technological Design of Architecture 1	ICAR/10	B	5	50	Loddo Gianraffaele ( <i>course A</i> ) Sanjust Paolo ( <i>course B</i> )
	IA/0054	Integrated Course in Materials for Architecture					
1	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
		<i>choose between:</i>					
2	IA/0056	Urban Geography	M-GGR/02	C	4	40	Memoli Maurizio
2	80/104	Early Modern History	M-STO/02	C	4	40	<i>to be defined</i>

### Second year – enrolled student a.y. 2019/20

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 ( <i>course A</i> ) Cherchi Pierfrancesco ( <i>course B</i> )
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	Cazzani Antonio M. Reccia Emanuele
2	AR/0009	Environmental Technical Physics	ING-IND/11	A	8	80	Frattolillo Andrea
2	80/040	Fundamentals of Urban Planning	ICAR/20	B	5	50	Colavitti Anna Maria



**Third year – enrolled student a.y. 2018/19**

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	Dessi Adriano ( <i>course A</i> ) Atzeni Carlo ( <i>course B</i> )
2	AR/0032	- Module: Technological Design of Architecture 3	ICAR/10	B	5	50	Atzeni Carlo
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/0059	Urban and Regional Planning	ICAR/20	B	5	50	Colavitti Anna Maria

**Activities rules**

Academic Year Enrolment	If you do not pass:	You cannot take:
2019/20	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
2018/19	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.



## Architecture (LM-4)

### First year – enrolled student a.y. 2020/21

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	Schirru Marcello
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
2	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	<i>to be defined</i>
2	IA/0080-2	- Module: Structural design	ICAR/09	B	5	50	Fenu Luigi
2	IA/0080-3	- Module: Innovative Technologies for Architecture	ICAR/10	B	5	50	<i>to be defined</i>
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/0081	Public Space and Mobility	ICAR/04	C	4	40	Pinna Francesco
2	IA/0157	Film Aesthetics	L-ART/06	C	4	40	Floris Antioco
2	IA/0158	Smart Cities: Policies and Practices	M-GGR/02	C	4	40	Mundula Luigi

### Second year – enrolled student a.y. 2019/20

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
	AR/0014	Integrated Course: Urban Planning and Social and Economic Evaluation					
1	AR/0014-1	- Module: Urbanism	ICAR/20	B	5	50	Colavitti Anna Maria
1	AR/0014-2	- Module: Plan and Project Evaluation	ICAR/22	B	5	50	Blecic Ivan
1	IA/0112	- Module: Sociology of Environment and Territory	SPS/10	B	5	50	Cois Ester
		<i>One choice among:</i>					
1	IA/0086	Landscape Architecture	ICAR/15	C	4	40	Costa Giorgio
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
2	IA/0084	Sustainable Materials and Technologies for Architecture	ING-IND/22	C	4	40	Meloni Paola
<b>Curriculum Architecture, Landscape and Society</b>							
1	IA/0088	Social and Landscape Geography	M-GGR/02	C	4	40	Memoli Maurizio
2	IA/0092	Urban Design Theories	ICAR/14	B	3	30	Lecis Marco
		<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
	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	<i>to be defined</i>
		<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
<b>Curriculum Historical Architecture and Design</b>							
1	IA/0095	Historical Materials Characterization and Conservation	GEO/09	C	4	40	Grillo Silvana M.
		<i>One choice among:</i>					
1	IA/0099	Museum Exhibit Design	ICAR/13	C	4	40	Sanjust Paolo
1	IA/0097	Recovery of Traditional Architecture in Historical Town Centres	ICAR/10	C	4	40	Sanna Antonello
2	IA/0098	Recovery of Modern Architecture	ICAR/10	C	4	40	Sanjust Paolo <i>to be defined</i>
		<i>Choose between:</i>					
1	IA/0100	Restoration Site	ICAR/19	C	4	40	Fiorino Donatella
1	IA/0101	Protection of Historical Landscapes	ICAR/19	C	4	40	Fiorino Donatella
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
2	IA/0094-2	- Module: Restoration	ICAR/19	B	5	50	Giannattasio Caterina
<b>Curriculum Architecture and Sustainability</b>							
1	IA/0105	Structural Architecture	ICAR/09	C	4	40	Fenu Luigi
		<i>Choose between:</i>					
1	IA/0103	Earthen Architecture. Building Cultures and Sustainable Development	ICAR/10	C	4	40	Achenza Maddalena
1	IA/0104	Architecture of Tension Structures	ICAR/10	C	4	40	Loddo Gianraffaele
		<i>One choice among:</i>					



1	IA/0106	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. 2020/21

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
2	IA/0044	Integrated Course: Industrial and Energetic Processes					
2	IA/0045	Module: Industrial Processes	ING-IND/27	B	6	60	Palmas Simonetta
2	IA/0046	Module: Energetic Processes	ING-IND/27	B	6	60	Palmas Simonetta
2	70/LM-0078	Environmental Conscious Energy and Chemical Processes	ING-IND/25	B	9	90	Mascia Michele

### Second year – enrolled student a.y. 2019/20

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	70/LM-0081	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 Grosso Massimiliano
2	70/LM-0053	Environmental Chemical Engineering	ING-IND/25	B	6	60	Concas Alessandro

### enrolled student a.y. 2020/21 e 2019/20

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		Manconi Barbara
1	IN/0159	Applied Biotechnology	CHIM/08	C	6		Onnis Valentina
1	IN/0233	Chemistry and Technology of Food	CHIM/10	C	6		Angioni Alberto
1	13174	Project Management	SECS-P/08	C	6		Dessi Cinzia
2	2487	Microbiology	MED/07	C	6		De Logu Alessandro



## Civil Engineering (LM-23)

### First year – enrolled student a.y. 2019/20

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	70/LM-0066	Mathematical Models and Methods in Engineering	MAT/09	C	6	60	Gorgone Enrico
1	70/LM-0111	Spatial Planning	ICAR/20	C	6	60	Campagna Michele
1	IA/0180	Integrated Course: Theory of Structures & Design, Monitoring and Inspection of Structures					
1	IA/0181	- Module: Theory of Structures	ICAR/08	B	6	60	Spagnuolo Mario
2	IA/0182	- Module: Design, Monitoring and Inspection of Structures	ICAR/09	B	6	60	Stochino Flavio
1	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
<b>Curriculum Hydraulics</b>							
	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
<b>Curriculum Sustainable Smart Building and Constructions</b>							
2	IN/0124	<i>One choice among:</i> Thermal HVAC Systems	ING-IND/11	C	6	60	Innamorati Roberto
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	<i>to be defined</i>
<b>Curriculum Structures</b>							
2	IN/0194	Theory and Design of Steel Construction	ICAR/09	B	6	60	Fenu Luigi
<b>Curriculum Transportations</b>							
	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	Fadda Paolo
2	70LM-01122	- Module: Theory and Technology Traffic Flow	ICAR/05	B	6	60	Olivo Alessandro



Second year – enrolled student a.y. 2019/20

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
1	IN/0147	Integrated Course: Computational Structural Analysis and Design and Theory and Technology of Structures 2					
1	IN/0051	- Module: Computational Structural Analysis and Design	ICAR/09	B	6	60	Meloni Daniel
2	IN/0148	- Module: Theory and Technology of Structures 2	ICAR/09	B	6	60	Concu Giovanna
<b>Curriculum Hydraulics</b>							
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	Sechi Giovanni M.
2	IA/0062	Maritime Engineering	ICAR/02	B	6	60	Montaldo Nicola
<b>Curriculum Sustainable Smart Building and Constructions</b>							
1	IA/0123	<i>One choice among:</i> Urban Climate and 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
2	IA/0147	Integrated Course: Sustainable building					
	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	<i>to be defined</i>
2	IA/0146	Integrated building design lab - Sustainable building		F	4	40	Quaquero Emanuela
<b>Curriculum Structures</b>							
1	70/LM-0101	Theory and Design of Bridges	ICAR/09	B	6	60	Mistretta Fausto
2	70/LM-0109	Advanced Solid and Structural Mechanics	ICAR/08	B	6	60	Brun Michele
2	IA/0063	Dynamics of Structures and Seismic Engineering	ICAR/08	B	12	120	Porcu Maria Cristina
<b>Curriculum Transportations</b>							
2	70/LM-0095	Road, Airfield and Railway Pavements	ICAR/04	B	6	60	Coni Mauro
2	70/LM-0103	<i>choose between:</i> Air Transport	ICAR/05	B	6	60	Devoto Roberto
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	Fancello Gianfranco
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	2	30	Meloni Italo
2	IN/0152	Structures Finite Element Modeling	ICAR/09	F	2	30	<i>to be defined</i>
2	IA/0064	Laboratory of Maritime Hydrodynamics Modelling	ICAR/01	F	2	30	Balzano Andrea
2	IN/0153	Laboratory of Integrated Design of Roads, Railways and Airports	ICAR/04	F	2	30	<i>to be defined</i>
2	IN/0222	Watershed and Stream Restoration Engineering Laboratory	ICAR/02	F	2	30	Saba Andrea
2	IN/0151	Structural Reconditioning: Analysis, Diagnosis, Retrofitting	ICAR/09	F	2	30	Concu Giovanna





## Internet Engineering (LM-27)

### First year – enrolled student a.y. 2020/21

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	IN/0059	- Module: Computer Science and New Technologies: Legal Aspects	ING-INF/03	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	5	50	Murroni Maurizio
2	IA/0116/EN	Cybersecurity Technologies and Risk Management 	ING-INF/05	C	10	100	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/0127	Neurons working	ING-INF/03	F	3	30	Sanna Randaccio Luca

### Second year – enrolled student a.y. 2019/20

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	IN/0199	Innovative Architectures and Applications in the Internet	ING-INF/03	B	6	60	Atzori Luigi
1	IA/0125/EN	<i>one choice among:</i> Advanced embedded systems 	ING-INF/01	C	8	80	Meloni Paolo
2	IA/0124	Integrated Course: Smart systems					
2	IA/0168	Module: Applications for Smartcities	ING-INF/03	C	4	40	Atzori Luigi
2	IA/0022	- Module: Smart housing	ING-INF/03	C	4	40	<i>to be defined</i>



**Other optional activities**

Sem	Code course	Laboratories	SSD	TAF	ECTS	H	Teacher
2	IA/0030	iOS Programming	ING-INF/03	F	2	20	<i>to be defined</i>
2	IA/0029	SDR – Software defined radio	ING-INF/03	F	2	20	<i>to be defined</i>
2	IA/0152	Digital forensics	ING-INF/03	F	3	30	Farina Massimo




## Electrical Engineering (LM-28)

### First year – enrolled student a.y. 2020/21

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
2	70/LM-0003	Analysis and Control of MIMO Systems	ING-INF/04	C	6	60	Usai Elio



### Second year – enrolled student a.y. 2019/20

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.
	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
	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
	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






## Electronic Engineering (LM-29)

### First year – enrolled student a.y. 2020/21

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	Sau Carlo
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
	IN/0200	Integrated Course: Integrated Circuits					
2	IN/0202	- Module: Analog Integrated Circuits	ING-INF/01	B	5	50	Barbaro Massimo
2	IN/0201	- Module: Digital Integrated Circuits	ING-INF/01	B	5	50	Barbaro Massimo
<b>Curriculum Embedded Electronics</b>							
1	IA/0123/EN	Operating Systems 	ING-INF/05	C	7	70	Giacinto Giorgio
<b>Curriculum Electronic Technologies for Emerging Applications</b>							
1	IA/0154/EN	Nanoelectronics 	FIS/03	C	5	50	Filippetti Alessio

### Second year – enrolled student a.y. 2019/20

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
<b>Curriculum Embedded Electronics</b> 							
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
1	IA/0123/EN	Operating Systems	ING-INF/05	C	7	70	Giacinto Giorgio
2	IA/0147/EN	Analysis and Control of Cyber-Physical Systems	ING-INF/04	C	6	60	Giua Alessandro
2	IA/0148/EN	Cyber-Physical System Architectures	ING-INF/01	B	5	50	Bodano Emanuele Morelli Andrea Solinas Antonio
<b>Curriculum Electronic Technologies for Emerging Applications</b> 							
1	IA/0153/EN	Data Acquisition Technologies	ING-INF/07	B	6	60	Pegoraro Paolo A.
1	IA/0154/EN	Nanoelectronics	FIS/03	C	5	50	Filippetti Alessio
1	IA/0149/EN	Optoelectronics, Diagnostics and Aerospace Applications	ING-INF/01	B	7	70	Vanzi Massimo Mura Giovanna
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/0150/EN	Microwave Systems for Remote Sensing	ING-INF/02	B	7	70	Montisci Giorgio



## Energetic Engineering (LM-30)

### First year – enrolled student a.y. 2020/21

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 Montisci Augusto
	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	Innamorati Roberto
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
2	IA/0040	Environmental Impact Energy Systems	ING-IND/09	C	6	60	Tola Vittorio
2	IN/0199	Innovative Architectures and Applications in the Internet	ING-INF/03	C	6	60	Atzori Luigi
2	IN/0033	Internet	ING-INF/03	C	6	60	Atzori Luigi
2	IN/0006	Electrical Machines	ING-IND/32	C	6	60	Damiano Alfonso
2	IN/0143	Transportation Planning	ICAR/05	C	6	60	Meloni Italo
2	IA/0046	Energetic Processes	ING-IND/27	C	6	60	Palmas Simonetta
2	IA/0010	Electric Drives and Propulsion Systems	ING-IND/32	C	6	60	Serpi Alessandro
2	IN/0029	Fundamentals of Electric Power Distribution and Smart Grids	ING-IND/33	C	6	60	Pilo Fabrizio G.L. Ghiani Emilio

### Second year – enrolled student a.y. 2019/20

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.
	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
	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



**Other available activities**

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	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	2	30	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	Dessì Cinzia
1	IN/0066	Symulation of Dynamical Systems with Matlab-Simulink	ING-INF/04	F	3	30	Pisano Alessandro
2	IA/0175	Control of Energy Systems	ING-INF/04	F	3	30	Pisano Alessandro
2	IA/0037	Electric Drives for Electric Propulsion Lab	ING-IND/32	F	3	30	Serpi 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. 2020/21

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	Roli Fabio
2	IA/0116/EN	Cybersecurity Technologies and Risk Management	ING-INF/05	B	10	100	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. 2019/20

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
1-2	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	Bonu Alessandro Partolino Marco Saba Giovanni Savoldi Luca
2	IA/0130/EN	- Module: Computer Law	IUS/20	C	5	50	Farina Massimo
		<i>one choice among:</i>					
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. 2020/21 e 2019/20

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
<b>1<sup>st</sup> year</b>							
	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	Pilo Fabrizio G. L.
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
<b>2<sup>nd</sup> year</b>							
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. 2020/21

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 El Methedi Mohamad
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/0038	Kinematics and Dynamics of Mechanisms	ING-IND/13	B	9	90	<i>to be defined</i>
		<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	Arena Simone
2	IN/0065	Mechanics of Composite Materials	ING-IND/14	B	6	60	Aymerich Francesco
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	Innamorati Roberto

### Second year – enrolled student a.y. 2019/20

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
		<i>Taf B Course to chose</i>					
1	IA/0150	Management of Energy Processes	ING-IND/09	B	6	60	Tola Vittorio
1	IN/0064	Computational Modeling of Fluid Systems	ING-IND/08	C	6	60	Ghisu Tiziano
1	IN/0228	Experimental Mechanics	ING-IND/14	C	6	60	Baldi Antonio
2	IA/0040	Environmental Impact Energy Systems	ING-IND/09	C	6	60	Tola Vittorio
2	70/LM-0096	Experimentation in Fluid Machines	ING-IND/08	C	6	60	Puddu Pierpaolo
		<i>Taf C Course to chose</i>					
1	13174	Project management	SECS-P/08	C	6	36	Dessi Cinzia
2	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	Baldi Antonio







## Environmental and Land Engineering (LM-35)


### First year – enrolled student a.y. 2020/21

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	2	20	Rodriguez Giuseppe
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	70/LM-0057	Computer Science Lab	ING-INF/05	F	5	50	Putzu Lorenzo
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/0118	Geodesign	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. 2019/20

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	70/LM-0040	<i>one choice among:</i> Foundations and Earth Retaining Structures	ICAR/07	C	6	60	Soccodato Fabio M.
1	70/LM-0054	Photogrammetry	ICAR/06	C	6	60	Sanna Giovanna M.
1	IN/0193	Recovery of Secondary Raw Materials	ING-IND/29	C	6	60	Surracco Marco
1	IN/0243/EN	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
<b>Curriculum Environmental Technologies</b>							
1	IN/0244/EN	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.



Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
<b>Curriculum Geo-engineering and Land Protection</b>							
1	IN/0070	Integrated Course: Hydrogeological Protection	ICAR/02	B	6	60	Montaldo Nicola
	IN/0071	- Module: Watershed and Stream Restoration Engineering					
1	IN/0072	- Module: Slope Instability and Hydrogeological Risk	GEO/05	B	6	60	Uras Gabriele
1	IN/0136	Integrated Course: Rock Engineering	ING-IND/28	B	6	60	Grosso Battista
	IN/0137	- Module: Rock Mechanics					
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
<b>Curriculum Regional and Urban Planning</b>							
1	70/LM-0111	Spatial Planning	ICAR/20	B	6	60	Campagna Michele
1	IN/0067	Integrated Course: Strategic Environmental Planning	ICAR/20	B	6	60	Garau Chiara
	IN/0068	- Module: Environmental Planning					
2	IN/0242/EN	- Module: Strategic Planning 	ICAR/20	B	6	60	Lai Sabrina
2	70/LM-0116	Integrated Course: Georesources Planning	ICAR/20	B	6	60	Balletto Ginevra
	70LM-01161	- Module: Regional Planning of Georesources					
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
2	IA/0170	Environmental Geophysics Lab	GEO/11	3	30	Deidda Gian Piero
2	IN/0220	Sanitary and Environmental Engineering Laboratory	ICAR/03	2	25	De Gioannis Giorgia
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	Dentoni Valentina

Other optional activities can be communicated on course web site.