



## Faculty of Engineering and Architecture

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

### Academic Year 2018/2019

#### 1. Degree Programmes A.Y. 2018/19

In academic year 2018/19 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="http://corsi.unica.it/ingegneriadelletelecomunicazioni/">http://corsi.unica.it/ingegneriadelletelecomunicazioni/</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)	24-25 July 2018 29-30-31 August 2018	local restricted access	180	3
Environmental and Land Engineering (70/73)		free access	-	10
Chemical Engineering (70/77)		free access	-	13
Mechanical Engineering (70/78)		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)	6 September 2018	national restricted access	118	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)	12 September 2018	local restricted access	80	4
Chemical and Biotechnological Process Engineering (70/88)	13 September 2018	open access	-	15
Civil Engineering (70/80)	17 September 2018	open access	-	10
Computer Engineering, Cybersecurity and Artificial Intelligence (70/90)	21 September 2018	open access	-	20



Internet Engineering (70/91)	4 September 2018	open access	-	17
Electrical Engineering (70/82)	12 September 2018	open access	-	10
Electronic Engineering (70/83)	3 September 2018	open access	-	11
Energetic Engineering (70/84)	12 September 2018	open access	-	13
Mechanical Engineering (70/85)	17 September 2018	open access	-	11
Environmental and Land Engineering (70/86)	14 September 2018	open access	-	15

The admission to the Master's Degree of Architecture (12<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 < 28/90), 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	English	B2	3
Internet Engineering	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:** 26/09/2018 – 21/12/2018;

**Second semester:** 26/02/2019 – 31/05/2019.

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 25<sup>th</sup> February 2019;
- 3 from 3<sup>rd</sup> June to 31<sup>st</sup> July 2019;
- 1 from 2<sup>nd</sup> September to 28<sup>th</sup> September 2019.

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. 2018/2019

The teaching courses in academic year 2018/2019 are available in Annex A, for each degree programme.



**Annex A- Degree Programmes and teaching courses available in  
 A.Y. 2018/2019**

**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. 2018/19

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	Delogu Francesco
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					
1	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. 2017/18

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	IN/0188	Mathematical Analysis 2	MAT/05	A	8	80	Ragnedda 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	Wolfler Calvo Roberto
2	70/0080-M	Construction Theory	ICAR/08	B	10	100	Serra Mauro
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 Fadda Paolo



**Third year – enrolled student a.y. 2016/17**

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
	IN/0090	Integrated Course: Applied Thermodynamics and Electrotechnics					
1	IN/0091	- Module: Applied Thermodynamics	ING-IND/11	C	5	50	Baccoli Roberto
1	IN/0092	- Module: Electrotechnics	ING-IND/31	C	5	50	Sias Giuliana
1	70/0056-M	Fundamentals of Transport	ICAR/05	B	6	60	Fadda Paolo
1	70/0059-M	Hydraulics	ICAR/01	B	10	100	Querzoli Giorgio
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	Tropeano Giuseppe
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:
2017/18	Mathematical Analysis 1	All 2nd year exams
	Geometry and Algebra	
	Physics 1	
2016/17	Mathematical Analysis 2	All 3rd year exams
	Physics 2	
	Mechanics Construction Theory	Theory and Technology of Structures
	Mechanics Construction Theory	Integrated Course: Geotechnics and Construction of Road, Railways and Airport
	Integrated Course: Statistics and Hydrology	Integrated Course: Water Supply and Sewerage and Water Supply and Sewerage Lab

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. 2018/19

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/07	A	6	60	Delogu Francesco
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. 2017/18

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	IN/0188	Mathematical Analysis 2	MAT/05	A	8	80	Ragnedda 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	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. 2016/17**

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	70/0059-M	Hydraulics	ICAR/01	B	10	100	Querzoli Giorgio
1	70/0081-M	Occupational Safety and Environmental Protection	ING-IND/28	B	6	60	Massacci Giorgio
1	IN/0101	Integrated Course: Science and Technology of Constructions					
1	IN/0102	- Module: Construction Theory	ICAR/08	B	6	60	Brun Michele
2	IN/0103	- Module: Theory and Technology of Structures	ICAR/09	B	6	60	Pani Luisa
2	IN/0099	Integrated Course: Geotechnics and Applied Seismology					
2	IN/0094	- Module: Geotechnics	ICAR/07	B	6	60	Soccodato Fabio M.
2	IN/0100	- Module: Applied Seismology	GEO/11	B	5	50	Deidda Gian Piero
2	70/0054-M	Transport Phenomena in Environmental Protection	ING-IND/24	B	6	60	Locci Antonio M.
2	IN/0010	Sanitary-Environmental Engineering	ICAR/03	B	7	70	Carucci Alessandra

**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
1	IN/0195	Laboratory of Environmental Geophysics in Coastal Areas	GEO/11	3	30	Balia Roberto
1	IA/0001	Workshop of Regional Planning	ICAR/20	3	45	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:
2017/18	Mathematical Analysis 1 Physics 1	All 2nd year exams
2016/17	Integrated Course: Mathematics 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. 2018/19

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	Vacca Annalisa
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	IN/0079	Geometry and Algebra	MAT/03	A	7	70	Mei Carlo
2	70/0006-M	Fundamentals of Computer Science	ING-INF/05	A	6	60	Marcialis Gian Luca
2	IA/0052	Introduction to Chemical Engineering	ING-IND/24	F	3	30	Cao Giacomo

### Second year – enrolled student a.y. 2017/18

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	IN/0188	Mathematical Analysis 2	MAT/05	A	8	80	Marras Monica
1	70/0017-M	Chemistry 2	CHIM/07	A	9	90	Delogu Francesco
1	70/005-M	Physics 2	FIS/01	A	7	70	Corpino Riccardo
2	70/0053-M	Electrotechnics	ING-IND/31	C	6	60	Cannas Barbara
2	70/0058-M	Fundamental of Transport Phenomena	ING-IND/24	B	6	60	Cao Giacomo
2	70/0072-M	Fluid Mechanics	ICAR/01	C	9	90	Ferrari Simone
2	70/0088-M	Chemical Thermodynamic	ING-IND/24	B	9	90	Locci Antonio M.

### Third year – enrolled student a.y. 2016/17

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	70/0060-M	Chemical Plant Design	ING-IND/25	B	9	90	Mascia Michele
1	70/0068-M	Fluid Machinery and Energy Systems	ING-IND/09	B	9	90	Cocco Daniele
2	70/0072-M	Fluid Mechanics	ICAR/01	C	9	90	Ferrari Simone
2	70/0013-M	Reliability and Safety in the Process Industry	ING-IND/25	B	6	60	Piras Ignazio
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:
2017/18	Mathematical Analysis 1 Physics 1	All 2nd year exams
2016/17	Integrated Course: Mathematics 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. 2018/19

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	Vacca Annalisa
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. 2017/18

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	IN/0188	Mathematical Analysis 2	MAT/05	A	8	80	Marras Monica
1	70/0057-M	Fundamentals of Machine Design	ING-IND/14	B	6	60	Bertolino Filippo
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	IN/0014	- Module: Fluid Dynamics	ING-IND/08	C	6	60	Mandas Natalino
2	70/0086-M	Manufacturing Technology	ING-IND/16	B	12	120	Buonadonna Pasquale El Mehtedi Mohamad
2	70/0053-M	Electrotechnics	ING-IND/31	C	6	60	Cannas Barbara
2	IN/0225	Materials Technology	ING-IND/22	C	6	60	Licheri Roberta

### Third year – enrolled student a.y. 2016/17

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	70/0066-M	Fluid Machinery	ING-IND/08	B	8	80	Puddu Pierpaolo
1	70/0070-M	Applied Mechanics	ING-IND/13	B	12	120	Ruggiu Maurizio
	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	70/0062-M	Mechanical Plants	ING-IND/17	B	8	80	Pilloni M. Teresa
2	70/0082-M	Energy Systems	ING-IND/09	B	8	80	Cau Giorgio



**Activities rules**

<b>Academic Year Enrolment</b>	<b>If you do not pass:</b>	<b>You cannot take:</b>
2018/19	Physics 1	Physics 2
2017/18	Mathematical Analysis 1 Physics 1	All 2nd year exams
2016/17	Integrated Course: Mathematics 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. 2018/19

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 Marcialis Gian Luca
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	Ferri Gianluca
2	IN/0012	- Module: Biochemistry	BIO/10	C	2	20	Fais Antonella
2	IN/0039	- Module: Fundamentals of Physiology	BIO/09	C	3	30	Tomassini Barbarossa Iole

### Second year – enrolled student a.y. 2017/18

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	Cao Giacomo
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. 2016/17

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	IA/0148	- Module: Technologies and Instruments in Surgery	MED/18	C	2	20	Restivo Angelo Zorcolo Luigi
2	IN/0044	- Module: Radiology and Nuclear Medicine	MED/36	C	2	20	Saba Luca
2	IN/0046	<i>choose between:</i> Biosensors	ING-INF/06	B	5	50	Spanu Andrea
2	IN/0218	Medical Instrumentation	ING-INF/06	B	5	50	Pani Danilo
2	IN/0048	<i>One choice among:</i> Electromagnetic Compatibility	ING-INF/02	C	5	50	Fanti Alessandro
2	IN/0047	Fundamentals of Bioinformatics	ING-INF/05	C	5	50	Armano Giuliano
2	IN/0014	Fluid Dynamics	ING-IND/08	C	5	50	Mandas Natalino
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:
2018/19	Physics 1	Physics 2
	I. C.: Human Body Biology	Chemistry
2017/18	Mathematical Analysis 1	All 2nd year exams
	Physics 1	
2016/17	I. C.: Fundamentals of Mechanics and Biomaterials	Chemistry
	I. C.: Mathematics	
	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. 2018/19

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 Marcialis Gian Luca
2	70/0001-M	Chemistry*	CHIM/07	A	6	60	Vacca Annalisa
2	IN/0079	Geometry and Algebra*	MAT/03	A	7	70	Pintus Nicola
2	70/0005-M	Physics 2*	FIS/01	A	7	70	Fiorentini Vincenzo
2	IN/0005	Communication Networks*	ING-INF/03	C	6	60	Perra Cristian

### Second year – enrolled student a.y. 2017/18

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	10	100	Martines Giovanni
2	IN/0021	Electrical and Electronic Measurements*	ING-INF/07	B	9	90	Muscas Carlo Castello Paolo
2	IN/0005	Communication Networks	ING-INF/03	C	6	60	Perra Cristian
<b>Curriculum on Electrical Engineering</b>							
1	70/0055-M	Engineering Physics*	ING-IND/11	C	6	60	Baccoli Roberto
<b>Curriculum on Electronic Engineering</b>							
1	IN/0002	Signal Theory*	ING-INF/03	C	6	60	Giusto Daniele
<b>Curriculum on Computer Engineering</b>							
1	IA/0071	Advanced Programming and Elements of Software Engineering	ING-INF/05	B	5	50	Didaci Luca



**Third year – enrolled student a.y. 2016/17**

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	6	60	Gatto Gianluca
	IN/0025	- Module: Fundamentals of Electric Power Systems	ING-IND/33	B	6	60	Pilo Fabrizio G.L.
<b><i>Curriculum on Electrical Engineering</i></b>							
1	70/0068-M	Fluid Machinery and Energy Systems	ING-IND/09	C	6	60	Cocco Daniele
1	70/0081-M	Occupational Safety and Environmental Protection	ING-IND/28	B	6	60	Dentoni Valentina
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	6	60	Pilo Fabrizio G.L.
<b><i>Curriculum on Electronic Engineering</i></b>							
1	IN/0027	Semiconductor Physics	FIS/03	C	6	60	Colombo Luciano
1	70/0078-M	Digital Systems Design	ING-INF/01	B	8	80	Raffo Luigi
2	70/0016-M	Electromagnetic Fields	ING-INF/02	B	8	80	Mazzarella Giuseppe
2	IN/0030	Semiconductor Devices	ING-INF/01	C	6	60	Vanzi Massimo
<b><i>Curriculum on Computer Engineering</i></b>							
1	70/0078-M	Digital Systems Design	ING-INF/01	B	8	80	Raffo Luigi
1	IN/0032	Software Engineering	ING-INF/05	B	5	50	Didaci Luca
2	IN/0031	Databases	ING-INF/05	A	6	60	Giacinto Giorgio
2	IN/0033	Internet	ING-INF/03	C	6	60	Atzori Luigi
2	IN/0028	Object Oriented Programming Languages	ING-INF/05	B	5	50	Armano Giuliano

**Activities rules**

Academic Year Enrolment	If you do not pass:	You cannot take:
2018/19	Physics 1	Physics 2
2017/18	Mathematical Analysis 1 Physics 1	All 2nd year exams
2016/17	Integrated Course: Mathematics 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. 2018/19

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/0021	- Module: Mathematical Analysis	MAT/05	A	5	50	Saba Marianna
2	AR/0022	- Module: Geometry	MAT/03	A	5	50	Ratto Andrea
1-2	80/034	History of Architecture 1	ICAR/18	A	8	80	Cadinu Marco
	AR/0024	Integrated Laboratory of Design and Construction of Architecture 1					
1	AR/0025	- Module: Architectural Design 1	ICAR/14	B	10	100	Peghin Giorgio M. (course A) Cocco Giovanni B. (course B)
2	AR/0026	- Module: Technological Design of Architecture 1	ICAR/10	B	5	50	Sanna Antonello - Loddo Gianraffaele (course A) Sanjust Paolo (course B)
	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	Salice Giampaolo

### Second year – enrolled student a.y. 2017/18

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/0057	Integrated Course of Architectural and Environmental Survey and Representation					
1	IA/0057-1	- Module: Drawing	ICAR/17	A	7	70	Pirinu Andrea
2	IA/0057-2	- Module: Topography	ICAR/06	C	3	30	Vacca Giuseppina
	AR/0027	Integrated Laboratory of Design and Construction of Architecture 2					
1	AR/0028	- Module: Architectural Design 2	ICAR/14	B	10	100	Lecis Marco (course A) Cherchi Pierfrancesco (course B)
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.
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. 2016/17**

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	80/044	Building Production Processes and Methods	ICAR/11	B	5	62.5	Argiolas Carlo
1	80/046	Theory and History of Restoration	ICAR/19	B	5	62.5	Giannattasio Caterina
1-2	AR/0002	Structural Design and Analysis	ICAR/09	B	9	112.5	Mistretta Fausto
	IA/0002	Integrated Course of Urban and Regional Planning					
1	IA/0003	- Module: Geodesign	ICAR/20	B	5	62.5	Campagna Michele
2	IA/0004	- Module: Urban Planning	ICAR/20	B	5	62.5	Colavitti Anna Maria
	AR/0030	Integrated Laboratory of Design and Construction of Architecture 3					
1	AR/0031	- Module: Architectural Design 3	ICAR/14	B	8	100	Dessi Adriano ( <i>course A</i> ) Atzeni Carlo ( <i>course B</i> )
2	AR/0032	- Module: Technological Design of Architecture 3	ICAR/10	C	5	62.5	Atzeni Carlo
2	80/043	Real Estate Appraisal 1	ICAR/22	B	5	62.5	Blecic Ivan

**Activities rules**

Academic Year Enrolment	If you do not pass:	You cannot take:
2017/18	Architectural Drawing and Surveying 1	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
2016/17	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. 2018/19

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	Campus Simona
	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	Giannattasio Caterina
	IA/0079	Architectural and Urban Theory and Design Studio					
1	IA/0079-1	- Module: Theory and Design	ICAR/14	B	6	60	Chiri Giovanni M.
2	IA/0079-2	- Module: Design	ICAR/14	B	6	60	Chiri Giovanni M.
	IA/0080	Integrated Laboratory of Technological Design					
1	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
2	IA/0080/3	- Module: Innovative Technologies for Architecture	ICAR/10	B	5	50	Desogus Giuseppe
2	IA/0080/4	- Module: Building thermophysics	ING-IND/11	B	5	50	Ricciu Roberto

### Second year – enrolled student a.y. 2017/18

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	Abis Emanuela
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/0111	Physical Assessment of Foundations and Buildings	GEO/11	C	4	40	Vignoli Giulio
1	IA/0081	Public Space and Mobility	ICAR/04	C	4	40	Pinna Francesco
1	IA/0082	Accessibility for Public and Urban Spaces	ICAR/04	C	4	40	Pinna Francesco
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	Asili Stefano
2	IA/0086	Landscape Architecture	ICAR/15	C	4	40	Costa Giorgio



<b>Curriculum Architecture, Landscape and Society</b>							
1	IA/0088	Social and Landscape Geography	M-GGR/02	C	4	40	Memoli Maurizio
1	IA/0092	Urban Design Theories	ICAR/14	B	3	30	Cherchi P. Francesco Cocco G. Battista
		<i>choose between:</i>					
1	IA/0090	Economics and Territorial Smartness	SECS-P/02	C	4	40	Mundula Luigi
1	IA/0091	Sustainable Mobility Planning	ICAR/05	C	4	40	Meloni Italo
	IA/0087	Architecture, Landscape and Society Design Studio					
2	IA/0087-1	-Module: Architecture and Society Module	ICAR/14	B	5	50	Peghin Giorgio M.
2	IA/0087-2	-Module: Landscape	ICAR/14	B	5	50	Angelillo Antonio
		<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/0097	Recovery of Traditional Architecture in Historical Town Centres	ICAR/10	C	4	40	Sanna Antonello
1	IA/0098	Recovery of Modern Architecture	ICAR/10	C	4	40	Sanjust Paolo Sanna Antonella
1	IA/0099	Museum Exhibit Design	ICAR/13	C	4	40	Sanjust Paolo
		<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	Lecis Marco
2	IA/0094-2	- Module: Restoration	ICAR/19	B	5	50	Fiorino Donatella
<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 M. 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 M. Maddalena
2	IA/0102-2	- Module: Architectural Design	ICAR/14	B	5	50	Chiri Giovanni M.
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. 2018/19

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	70/LM-0002	Analysis of Chemical and Biotechnological Processes	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
	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. 2017/18

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
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	Cappai Giovanna S.

### enrolled student a.y. 2018/19 e 2017/18

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		Baldi Antonio
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	IN/0233	Chemistry and Technology of Food	CHIM/10	C	6		Angioni Alberto
1	60/69/2	Physical Chemistry of Interphases	CHIM/02	C	6		Monduzzi Maura
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. 2018/19

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	Zuddas Paola
1	70/LM-0111	Spatial Planning	ICAR/20	C	6	60	Campagna Michele
1	IN/0139	Integrated Course: Construction Theory 2 and Testing, Monitoring and Inspection of Structures					
2	IN/0140	- Module: Construction Theory 2	ICAR/08	B	6	60	Cazzani Antonio M.
2	IN/0179	- Module: Testing, Monitoring and Inspection of Structures	ICAR/09	B	6	60	De Nicolo Barbara
1	IN/0141	Integrated Course: Construction of Road, Railways and Airport 2 and Transportation Planning					
2	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>Sustainable Smart Building and Constructions Curriculum</b>							
2	IA/0119	Sustainable Building: Bioclimatic Design	ICAR/10	B	6	60	Sanna Antonello
1	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
<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. 2017/18

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 Structures</b>							
1	70/LM-0101	Theory and Design of Bridges	ICAR/09	B	6	60	Giaccu Gian Felice
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
		<i>choose between:</i>					
2	70/LM-0103	Air Transport	ICAR/05	B	6	60	Devoto Roberto
2	70/LM-0105	Logistic and Freight Transportation	ICAR/05	B	6	60	Devoto Roberto
		<i>choose between:</i>					
2	70/LM-0106	Urban and Metropolitan Transport	ICAR/05	B	6	60	Meloni Italo
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	Stochino Flavio
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	Rassu Nicoletta
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. 2018/19

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	IN/0196	Integrated Course: Operating Systems and Law					
1	IN/0108	- 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/0134	- Module: Stochastic models	ING-INF/04	C	5	50	Giua Alessandro
1	IA/0016	Integrated Course: Communication Systems					
1	IA/0017	- Module: Wireless Transmission	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/0126	Digital media	ING-INF/03	C	6	60	Floris Alessandro
2	70/LM-0074	Wireless Network Design	ING-INF/02	B	7	70	Casula G. Andrea
2	IN/0127	Neurons working	ING-INF/03	F	3	30	Sanna Randaccio Luca

### Second year – enrolled student a.y. 2017/18 (Telecommunication Engineering)

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	IA/0019	Pervasive wireless communications	ING-INF/02	B	9	90	Mazzarella Giuseppe Montisci Giorgio
1	IA/0021	Mobile Networks	ING-INF/03	B	5	50	Anedda Matteo
2	IN/0199	Innovative Architectures and Applications in the Internet	ING-INF/03	B	6	60	Atzori Luigi
2	IA/0020	Internet of things	ING-INF/03	B	6	60	Nitti Michele
1	IA/0022	<i>one choice among:</i> Smart housing	ING-INF/03	C	6	60	Pilloni Virginia
1	IA/0023	Smartcities	ING-INF/03	C	6	60	Girau Roberto
2	IA/0047	Design of Planar Microwave Components	ING-INF/02	C	6	60	Montisci Giorgio

### Other optional activities

Sem	Code course	Laboratories	SSD	TAF	ECTS	H	Teacher
2	70/LM-0033	Image and Video Processing	ING-INF/03	F	2	20	Fadda Mauro
2	IA/0030	Programmazione iOS	ING-INF/03	F	2	20	Fadda Mauro
2	IA/0029	SDR – Software defined radio	ING-INF/03	F	2	20	Fadda Mauro



## Electrical Engineering (LM-28)

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

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	70/LM-0003	Analysis and Control of Mimo Systems	ING-INF/04	C	6	60	Usai Elio
1	70/LM-0032	Applied Electromagnetism in Electrical and Energy Engineering	ING-IND/31	B	9	90	Sias Giuliana Montisci Augusto
1	70/LM-0064	Measurements for Electric Energy	ING-INF/07	B	9	90	Muscas Carlo Castello Paolo
	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
	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
2	IA/0010	- Module: Electric Drives and Propulsion Systems	ING-IND/32	B	6	60	Serpi Alessandro
2	70/LM-0087	Safety and Project Management at Construction Sites	ING-IND/28	C	6	60	Dentoni Valentina

### Second year – enrolled student a.y. 2017/18

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	IA/0011	Electrical Energy Management and Electrical Vehicles	ING-IND/32	B	9	90	Damiano Alfonso Porru Mario
1	70/LM-0052	Power Systems Generation and Economics	ING-IND/33	B	9	90	Ghiani Emilio Pilo Fabrizio G.L.
	IN/0112	Integrated Course: Circuits Design for Signal Processing					
1	IN/0114	- Module: Nonlinear Systems and Chaos	ING-IND/31	B	6	60	Cannas Barbara
2	IN/0113	- Module: Analog and Digital Filters	ING-IND/31	B	6	60	Montisci Augusto





## Electronic Engineering (LM-29)

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

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	IA/0142	Integrated Course: Electronic Components Reliability and Measurement Systems					
1	IA/0143	- Module: Reliability of Electronic Components	ING-INF/01	B	5	50	Mura Giovanna
1	70/LM-0088	- Module: Automatic Measurement Systems	ING-INF/07	B	6	60	Pegoraro Paolo A.
1	IA/0144	Integrated Course: Pervasive Electromagnetics					
1	IA/0136	- Modulo: Pervasive Wireless Systems	ING-INF/02	B	5	50	Mazzarella Giuseppe
1	IA/0145	- Modulo: Radio-Frequency Planar Circuits	ING-INF/02	B	5	50	Montisci Giorgio
1	IA/0138	Integrated Course: Microcontroller-Based, Control And Communication Systems					
1	IA/0139	- Module: Microcontroller-Based Systems	ING-INF/01	B	6	60	Sau Carlo
2	IA/0140	- Module: Wireless Networks Access Technologies	ING-INF/03	C	3	30	Fadda Mauro
2	IA/0141	- Module: Digital Control	ING-INF/04	C	3	30	Giua Alessandro
2	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

### Second year – enrolled student a.y. 2017/18

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	IN/0120	Advanced Control Systems	ING-INF/04	C	7	70	Usai Elio
1	IN/0204	Integrated Course: Operating Systems and Artificial Intelligence					
1	IN/0108	- Module: Operating Systems	ING-INF/05	C	7	70	Giacinto Giorgio
1	IA/0205/EN	- Module: Artificial Intelligence 	ING-INF/05	C	5	50	Fumera Giorgio
2	IN/0207	Integrated Course: Computer Architectures and Integrated Systems					
2	IN/0208	- Module: Computer Architectures	ING-INF/01	B	5	50	Meloni Paolo
2	IN/0062	- Module: Embedded Systems	ING-INF/01	B	5	50	Meloni Paolo
2	IN/0209	Design of Microwave Circuits	ING-INF/02	B	10	100	Montisci Giorgio
2	IN/0206	<i>choose between:</i> Advanced Electronic Devices and Technologies	ING-INF/01	B	7	70	Cosseddu Piero
2	70/LM-0074	Wireless Network Design	ING-INF/02	B	7	70	Casula G. Andrea
1	70/LM-0067	<i>choose between:</i> Nanoelectronics	FIS/03	C	6	60	Melis Claudio
2	IA/0014/EN	Computer Security 	ING-INF/05	C	6	60	Giacinto Giorgio



**Other available activities**

Sem	Code course	Other activities	SSD	TAF	ECTS	H	Teacher
2	IA/0027	Diagnostics of Electron Devices	ING-INF/01	F	2	30	Mura Giovanna
2	IN/0232	Labview	ING-INF/07	F	2	20	Sulis Sara



## Energetic Engineering (LM-30)

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

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/0124	- Module: Thermal Hvac Systems	ING-IND/11	B	6	60	Innamorati Roberto
2	IN/0123	- Module: Energetics	ING-IND/11	B	6	60	Frattolillo Andrea
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	Deidda Gian Piero
		<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	70/LM-0011	Thermal Plant Control	ING-INF/04	C	6	60	Usai Elio Pisano Alessandro
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.

### Second year – enrolled student a.y. 2017/18

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	IA/0011	Electrical Energy Management and Electrical Vehicles	ING-IND/32	B	10	100	Damiano Alfonso Porru Mario
1	70/LM-0052	Power Systems Generation and Economics	ING-IND/33	B	9	90	Ghiani Emilio Pilo Fabrizio G.L.
	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	Modellazione e Simulazione dei Sistemi Energetici	ING-IND/09	F	3	30	Tola Vittorio
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/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	Celli Gianni



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

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

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/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 Biggio Battista
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
	IA/0118/EN	<i>one choice among:</i> 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/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. 2018/19

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	70/LM-0010	Automatic Control Systems	ING-INF/04	C	6	60	Pisano Alessandro
1	70/LM-0090	Manufacturing Systems	ING-IND/16	B	6	60	Buonadonna Pasquale
	IN/0226	Integrated Course: Mechanical Behavior of Materials					
1	IN/0227	- Module: Mechanics of Materials	ING-IND/14	B	6	60	Aymerich Francesco
2	IN/0065	- Module: Mechanics of Composite Materials	ING-IND/14	B	6	60	Aymerich Francesco
	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	12	120	Ruggiu Maurizio

### Second year – enrolled student a.y. 2017/18

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	IA/0033	Industrial Energy Technologies	ING-IND/09	B	9	90	Cau Giorgio Tola Vittorio
2	IA/0039	Design of Fluid Machinery	ING-IND/08	B	9	90	Puddu Pierpaolo Ghisu Tiziano

### enrolled student a.y. 2018/19 and a.y. 2017/18

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1-2		Courses from Table 1		C	24	240	

### Table 1. Four courses to choose among the following:

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1 <sup>st</sup> year							
1	IA/0070	Numerical Calculus	MAT/08	C	6	60	Van Der Mee Cornelis VM
1	IN/0124	Thermal HVAC Systems	ING-IND/11	C	6	60	Innamorati Roberto
2	70/LM-0056	Finite Elements Analysis	ING-IND/14	C	6	60	Bertolino Filippo
2	70/LM-0098	Renewable Energy Technologies	ING-IND/09	C	6	60	Cocco Daniele
2 <sup>nd</sup> year							
1	IN/0228	Experimental mechanics	ING-IND/14	C	6	60	Baldi Antonio
1	IN/0064	Computational Modeling of Fluid Systems	ING-IND/08	C	6	60	Ghisu Tiziano
1	70/LM-0096	Experimentation in Fluid Machines	ING-IND/08	C	6	60	Mandas Natalino
2	IA/0040	Environmental Impact Energy Systems	ING-IND/09	C	6	60	Tola Vittorio

### 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	Tola Vittorio
1	IN/0066	Symulation of Dynamical Systems with Matlab-Simulink	ING-INF/04	F	3	30	Pisano Alessandro
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. 2018/19

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	70/LM-0006	Numerical Calculus and Applied Mathematics	MAT/08	C	8	80	Van Der Mee Cornelis VM
1	70/LM-0042	Applied Geophysics	GEO/11	B	6	60	Balia Roberto
1	70/LM-0044	Environmental Geoengineering	ING-IND/28	B	6	60	Manca Pier Paolo
1	70/LM-0057	Computer Science Lab	ING-INF/05	F	5	50	Fumera Giorgio
1	IN/0133	Integrated Course: Remediation and Chemical-Physical Treatment of Soils					
1	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-0050	Hydrogeology	GEO/05	B	6	60	Uras Gabriele
2	70/LM-0048	Environmental Hydraulics	ICAR/01	B	6	60	Querzoli Giorgio
2	IN/0132	Impact Assessment and Environmental Rehabilitation	ING-IND/28	B	6	60	Massacci Giorgio

### Second year – enrolled student a.y. 2017/18

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	Sanna Giovanna M.
2	70/LM-0001	Water Supply and Sewerage	ICAR/02	C	6	60	Viola Francesco
2	IN/0243/EN	Geochemical Characterization 	GEO/09	C	6	60	Valera Paolo
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	70/LM-0051	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					
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	Manca Pier Paolo
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	Grosso Battista
<b>Curriculum Regional and Urban Planning</b>							
1	IN/0067	Integrated Course: Strategic Environmental Planning					
1	IN/0068	- Module: Environmental Planning	ICAR/20	B	6	60	Garau Chiara
1	IN/0242/EN	- Module: Strategic Planning 	ICAR/20	B	6	60	Zoppi Corrado
1	70/LM-0111	Spatial Planning	ICAR/20	B	6	60	Campagna Michele
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/0195	Laboratory of Environmental Geophysics in Coastal Areas	GEO/11	3	30	Balia Roberto
1	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	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.