



## Faculty of Engineering and Architecture

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

### Academic Year 2016/2017

#### 1. Degree Programmes A.Y. 2016/17

In academic year 2016/17 the Faculty of Engineering and Architecture offers the following degree programmes:

<b>Bachelor's degree programmes</b> (Italian course classification)	<b>Web site</b>
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://ingegneriacivile.unica.it/">http://ingegneriacivile.unica.it/</a>
Electrical, Electronic and Computer Engineering (L-8 & L-9)	<a href="http://corsi.unica.it/ingegneriaelettricaeelettronica/">http://corsi.unica.it/ingegneriaelettricaeelettronica/</a>
Mechanical Engineering (L-9)	<a href="http://people.unica.it/meccanica/">http://people.unica.it/meccanica/</a>
Environmental and Land Engineering (L-7)	<a href="http://corsi.unica.it/ambienteeterritorio/">http://corsi.unica.it/ambienteeterritorio/</a>
Architectural Science (L-17)	<a href="http://corsi.unica.it/scienzedellarchitettura/">http://corsi.unica.it/scienzedellarchitettura/</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://ingegneriacivile.unica.it/">http://ingegneriacivile.unica.it/</a>
Telecommunication Engineering (LM-27)	<a href="http://corsi.unica.it/ingegneriadelletelecomunicazioni/">http://corsi.unica.it/ingegneriadelletelecomunicazioni/</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>
Mechanical Engineering (LM-33)	<a href="http://people.unica.it/meccanica/">http://people.unica.it/meccanica/</a>
Environmental and Land Engineering (LM-35)	<a href="http://corsi.unica.it/ambienteeterritorio/">http://corsi.unica.it/ambienteeterritorio/</a>

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



## 2. Admission

### 2.1 BACHELOR'S DEGREES

Bachelor's Degree Programmes have a limited enrollment with a selective entry system and it is necessary to take a test.

*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)	26-27 July 2016 1-2 September 2016	local restricted access	150	3
Environmental and Land Engineering (70/73)		local restricted access	150	6
Chemical Engineering (70/77)		local restricted access	150	13
Mechanical Engineering (70/78)		local restricted access	150	4
Biomedical Engineering (70/75)		local restricted access	150	0
Electrical, Electronic and Computer Engineering (70/89)		local restricted access	150	4
Architectural Science (80/71)	8 September 2016	national restricted access	106	6

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

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

All the administrative procedures to enroll are available at link [Servizi online agli studenti](#).

### 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)	Access	Number of students admitted	
		total	Foreign students (non EU + Chinese Marco Polo programme)
Architecture (80/72)	local restricted access	80	4
Chemical and Biotechnological Process Engineering (70/88)	open access	-	15
Civil Engineering (70/80)	open access	-	10
Telecommunication Engineering (70/81)	open access	-	20
Electrical Engineering (70/82)	open access	-	10
Electronic Engineering (70/83)	open access	-	15
Energetic Engineering (70/84)	open access	-	13
Mechanical Engineering (70/85)	open access	-	11
Environmental and Land Engineering (70/86)	open access	-	15

The admission to the Master's Degree of Architecture (9<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 assessment of personal proficiency for Engineering master's degrees will be held on 15<sup>th</sup> September.

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 < 15/40), 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 Surveying 1 and the preliminary exams in Mathematical Analysis (Integrated Course in Mathematics) and in Architectural Design 1 (Integrated Laboratory of Design and Construction of Architecture 1), 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	2

### 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:** 26/09/2016 – 21/12/2016;

**Second semester:** 27/02/2017 – 01/06/2017.

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 9<sup>th</sup> January to 25<sup>th</sup> February 2017;
- 3 from 5<sup>th</sup> June to 31<sup>st</sup> July 2017;
- 1 from 1<sup>st</sup> September to 30<sup>th</sup> September 2017.

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. 2016/2017

The teaching courses in academic year 2016/2017 are available in Annex A, for each degree programme.



**Annex A- Degree Programmes and teaching courses available in  
A.Y. 2016/2017**

**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
- [Telecommunication Engineering](#) – LM-27
- [Electrical Engineering](#) – LM-28
- [Electronic Engineering](#) – LM-29
- [Energetic Engineering](#) – LM-30
- [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.

**Abbreviations**

SSD	Scientific Disciplinary Sector
TAF	Type of Educational Activity



## Civil Engineering (L-7)

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

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	IN/0186	Mathematical Analysis 1	MAT/05	A	9	90	Viglialoro Giuseppe
1	70/0004-M	Physics 1	FIS/01	A	8	80	Concas Giorgio
	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
2	IN/0188	Mathematical Analysis 2	MAT/05	A	5	50	Ragnedda Francesco
2	IN/0079	Geometry and Algebra	MAT/03	A	7	70	Ratto Andrea
2	70/0005-M	Physics 2	FIS/01	A	7	70	Corpino Riccardo
2	70/0006-M	Fundamentals of Computer Science	ING-INF/05	A	6	60	Fumera Giorgio

### Second year – enrolled student a.y. 2015/16

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
	IN/0084	Integrated Course: Statistics and Hydrology					
1	IN/0086	- Module: Statistics	SECS-S/02	C	4	40	Banni Aldo
1	IN/0085	- Module: Hydrology	ICAR/02	B	6	60	Sechi Giovanni M.
1	70/0073-M	Mechanics	MAT/07	A	6	60	Mignemi Salvatore
1-2	70/0080-M	Construction Theory	ICAR/08	B	10	100	Serra Mauro
	IN/0081	Integrated Course: Technical Architecture and Graphics Lab					
1	IN/0083	- Module: Graphics Lab	ICAR/17	F	4	40	Casu Paola
2	IN/0082	- Module: Technical Architecture	ICAR/10	B	6	60	Loddo Gianraffaele
	IN/0087	Integrated Course: Topography and Topography Laboratory					
2	IN/0088	- Module: Topography	ICAR/06	B	6	60	Sanna Giovanna M.
2	IN/0089	- Module: Topography Laboratory	ICAR/06	F	4	40	Sanna Giovanna M. (course A+B)
2	IN/0080	Decisional Methods in Economy	MAT/09	C	5	50	Mancini Simona



**Third year – enrolled student a.y. 2014/15**

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	IN/0090	Integrated Course: Applied Thermodynamics and Electrotechnics					
	IN/0091	- Module: Applied Thermodynamics	ING-IND/11	C	5	50	Baccoli Roberto
	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 (course A) Balzano Andrea (course B)
2	IN/0093	Integrated Course: Geotechnics and Construction of Road, Railways and Airport					
	IN/0094	- Module: Geotechnics	ICAR/07	B	6	60	Soccodato Fabio
	IN/0095	- Module: Construction of Road, Railways and Airport	ICAR/04	B	6	60	Maltinti Francesca
1-2	70/0084-M	Theory and Technology of Structures	ICAR/09	B	10	100	Sassu Mauro
2	70/0090-M	Integrated Course: Water Supply and Sewerage and Water Supply and Sewerage Lab					
	70/0090-M1	- Module: Water Supply and Sewerage	ICAR/02	B	6	60	Viola Francesco
	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:
2016/17	Mathematical Analysis 1	Mathematical Analysis 2
	Physics 1	Physics 2
2015/16	Mathematical Analysis 1	All 2nd year exams
	Geometry and Algebra	
	Physics 1	
2014/15	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. 2016/17

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	70/0004-M	Physics 1	FIS/01	A	8	80	Concas Giorgio
2	IN/0187	Integrated Course: Mathematics					
2	IN/0188	- Module: Mathematical Analysis 2	MAT/05	A	5	50	Ragnedda Francesco
2	IN/0079	- Module: Geometry and Algebra	MAT/03	A	7	70	Ratto Andrea
2	70/0005-M	Physics 2	FIS/01	A	7	70	Corpino Riccardo
2	70/0006-M	Fundamentals of Computer Science	ING-INF/05	A	6	60	Fumera Giorgio
2	70/0064-M	Graphics Lab	ICAR/17	F	5	50	Cicalò Enrico

### Second year – enrolled student a.y. 2015/16

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	IN/0084	Integrated Course: Statistics and Hydrology					
1	IN/0086	- Module: Statistics	SECS-S/02	C	4	40	Banni Aldo
1	IN/0085	- Module: Hidrology	ICAR/02	B	6	60	Deidda Roberto
1	70/0003-M	Business Economics	ING-IND/35	C	5	50	Tilocca Maria Caterina
1	IN/0008	Thermodynamics and Fluid Machinery	ING-IND/09	C	6	60	Cocco Daniele
1	IN/0009	Raw Materials Engineering	ING-IND/29	B	6	60	Surracco Marco
2	IN/0096	Integrated Course: Geology and Applied Geology					
2	IN/0098	- Module: Lithology and Geology	GEO/09	C	6	60	Naitza Stefano
2	IN/0097	- Module: Applied Geology	GEO/05	B	5	50	Barroccu Giovanni
2	70/0065-M	Electrotechnics Laboratory	ING-IND/31	F	5	50	Montisci Augusto
2	70/0077-M	Regional Planning	ICAR/20	B	6	60	Zoppi Corrado Garau Chiara
2	70/0089-M	Topography and Cartography	ICAR/06	B	6	60	Banni Aldo



**Third year – enrolled student a.y. 2014/15**

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	70/0054-M	Transport Phenomena in Environmental Protection	ING-IND/24	B	6	60	Desogus Francesco
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
	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
	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	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/0219	Geology Lab	GEO/09	3	30	Naitza Stefano
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:
2016/17	Mathematical Analysis 1	Integrated Course: Mathematics
	Physics 1	Physics 2
2015/16	Mathematical Analysis 1 Physics 1	All 2nd year exams
2014/15	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. 2016/17

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	IN/0186	Mathematical Analysis 1	MAT/05	A	9	90	Marras Monica
1	70/0001-M	Chemistry	CHIM/07	A	6	60	Vacca Annalisa
1	70/0004-M	Physics 1	FIS/01	A	8	80	Mura A. Andrea
2	IN/0187	Integrated Course: Mathematics					
2	IN/0188	- Module: Mathematical Analysis 2	MAT/05	A	5	50	Van Der Mee Cornelis V.M
2	IN/0179	- Module: Geometry and Algebra	MAT/03	A	7	70	Mei Carlo
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

### Second year – enrolled student a.y. 2015/16

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	70/0017-M	Chemistry 2	CHIM/07	A	9	90	Delogu Francesco
1	70/0057-M	Fundamentals of Machine Design	ING-IND/14	B	6	60	Bertolino Filippo
1	70/0069-M	Applied Mathematics	MAT/08	A	6	60	Fermo Luisa
1	70/0088-M	Chemical Thermodynamic	ING-IND/24	B	9	90	Locci Antonio M.
2	70/0053-M	Electrotechnics	ING-IND/31	C	6	60	Cannas Barbara
2	70/0058-M	Fundamental of Transport Phenomena	ING-IND/24	B	9	90	Cao Giacomo
2	70/0063-M	Chemical Reaction Engineering	ING-IND/24	B	9	90	Carta Renzo M.S.
2	70/0087-M	Applied Chemistry and Technology	ING-IND/22	B	9	90	Licheri Roberta Elsener Bernhard

### Third year – enrolled student a.y. 2014/15

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	C	9	90	Cocco Daniele
1	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:
2016/17	Mathematical Analysis 1	Integrated Course: Mathematics
	Physics 1	Physics 2
2015/16	Mathematical Analysis 1	All 2nd year exams
	Physics 1	
2014/15	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. 2016/17

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	IN/0186	Mathematical Analysis 1	MAT/05	A	9	90	Marras Monica
1	70/0001-M	Chemistry	CHIM/07	A	6	60	Vacca Annalisa
1	70/0004-M	Physics 1	FIS/01	A	8	80	Mura A. Andrea
1	IA/0006	Introduction to Technical Drawing	ING-IND/15	F	3	30	Bertolino Filippo
2	IN/0187	Integrated Course: Mathematics					
2	IN/0188	- Module: Mathematical Analysis 2	MAT/05	A	5	50	Van Der Mee Cornelis V.M
2	IN/0079	- Module: Geometry and Algebra	MAT/03	A	7	70	Mei Carlo
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

### Second year – enrolled student a.y. 2015/16

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	70/0057-M	Fundamentals of Machine Design	ING-IND/14	B	6	60	Bertolino Filippo
1	70/0069-M	Applied Mathematics	MAT/08	A	6	60	Fermo Luisa
1	70/0070-M	Applied Mechanics	ING-IND/13	B	12	120	Manuello Bertetto Andrea
1-2	70/0086-M	Manufacturing Technology	ING-IND/16	B	12	120	Dionoro Gennaro
2	70/0049-M	Computer Aided Design	ING-IND/15	F	3	30	Ambu Rita
2	70/0050-M	Technical Drawing	ING-IND/15	B	6	60	Ambu Rita Bertolino Filippo
2	70/0053-M	Electrotechnics	ING-IND/31	C	6	60	Cannas Barbara
2	70/0047-M	Integrated Course: Thermofluid Dynamics					
2	70/0047-M1	- Module: Fluid Dynamics	ING-IND/08	C	5	50	Mandas Natalino
2	70/0047-M2	- Module: Applied Thermodynamics	ING-IND/08	C	5	50	Cambuli Francesco



**Third year – enrolled student a.y. 2014/15**

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	70/0076-M	Mechanical and Thermal Measurements	ING-IND/12	C	8	80	Vallascas Rinaldo
		<i>choose between:</i>					
1	IN/0015	Steam Generating Units	ING-IND/09	C	6	60	Floris Francesco
1	IN/0017	Statistics for Engineers	ING-IND/16	C	6	60	Romano Daniele
	IN/0104	Integrated Course: Machine Components Design					
1	IN/0105	- Module: Fundamentals of Machine Design	ING-IND/14	B	6	60	Baldi Antonio
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	Orrù Pier Francesco
2	70/0082-M	Energy Systems	ING-IND/09	B	8	80	Cau Giorgio

**Activities rules**

Academic Year Enrolment	If you do not pass:	You cannot take:
2016/17	Mathematical Analysis 1	Integrated Course: Mathematics
	Physics 1	Physics 2
2015/16	Mathematical Analysis 1	All 2nd year exams
	Physics 1	
2014/15	Integrated Course: Mathematics	All 3rd year exams
	Physics 2	

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. 2016/17

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	IN/0186	Mathematical Analysis 1	MAT/05	A	9	90	Iannizzotto Antonio
1	70/0001-M	Chemistry	CHIM/07	A	6	60	Pilia Luca
1	70/0004-M	Physics 1	FIS/01	A	8	80	Bongiovanni Giovanni
2	IN/0187	Integrated Course: Mathematics					
2	IN/0188	- Module: Mathematical Analysis 2	MAT/05	A	5	50	Iannizzotto Antonio
2	IN/0079	- Module: Geometry and Algebra	MAT/03	A	7	70	Zuddas Fabio
2	IN/0155	Integrated Course: Information Processing Systems					
2	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	70/0005-M	Physics 2	FIS/01	A	7	70	Filippetti Alessio

### Second year – enrolled student a.y. 2015/16

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	IN/0011	Integrated Course: Biochemistry and Molecular Biology					
1	IN/0012	- Module: Biochemistry	BIO/10	C	3	30	Arba Morena
1	IN/0013	- Module: Molecular Biology	BIO/11	C	2	20	Rosatelli Maria Cristina
1	IN/0236	Integrated Course: Fundamentals of Mechanics and Biomaterials					
1	IN/0165	- Module: Fundamentals of Mechanics and Biomechanic	ING-IND/13	B	5	50	Leban Bruno
1	IN/0237	- Module: Biomaterials	ING-IND/24	B	5	50	Orrù Roberto
1	IN/0238	Integrated Course: Transport Phenomena and Chemical Bioengineering					
1	IN/0169	- Module: Chemical Bioengineering	ING-IND/24	B	5	50	Carta Renzo M.S.
1	IN/0239	- Module: Transport Phenomena in Biomedical Systems	ING-IND/24	B	5	50	Cao Giacomo
1	70/0069-M	Applied Mathematics	MAT/08	A	6	60	Fermo Luisa
2	IN/0037	Integrated Course: Anatomy and Physiology					
2	IN/0038	- Module: Human Anatomy	BIO/16	C	4	40	Piras Franca
2	IN/0039	- Module: Fundamentals of Physiology	BIO/09	C	3	30	Tomassini Barbarossa Iole
2	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	Seatzu Carla Pani Danilo
2	IN/0215	Integrated Course: Electronic Design					
2	IN/0216	- Module: Analog Electronics	ING-INF/01	B	5	50	Raffo Luigi
2	IN/0217	- Module: Digital Electronics	ING-INF/01	B	5	50	Palumbo Francesca



Third year – enrolled student a.y. 2014/15

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/0212	Integrated Course: Bioelectronics					
1	IN/0213	- Module: Bioelectronics Fundamentals	ING-INF/06	B	5	50	Cosseddu Piero
1	IN/0214	- Module: Bioelectronic Interfaces	ING-INF/06	B	5	50	Bonfiglio Annalisa
1	IN/0167	Integrated Course: Industrial Bioengineering 1					
1	IN/0168	- Module: Mechanical Bioengineering	ING-IND/14	B	5	50	Pau Massimiliano
1	IN/0169	- Module: Chemical Bioengineering	ING-IND/24	B	5	50	Carta Renzo M.S.
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/0043	- Module: Instrumentation and Proesthetic Materials	MED/22	C	2	20	Sanfilippo Roberto
2	IN/0044	- Module: Radiology and Nuclear Medicine	MED/36	C	2	20	Saba Luca
2		<i>choose between:</i>					
2	IN/0046	Biosensors	ING-INF/06	B	5	50	Carbonaro Nicola
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/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:
2016/17	Mathematical Analysis 1	I. C.: Mathematics
	Physics 1	Physics 2
2015/16	Mathematical Analysis 1	All 2nd year exams
	Physics 1	
	Chemistry	I. C.: Anatomy and Physiology
	Chemistry	I. C.: Biochemistry and Molecular Biology
2014/15	Chemistry	I. C.: Transport Phenomena and Biomaterials
	I. C.: Mathematics	All 3rd year exams
Physics 2		

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)

From the academic year 2015-16, 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 all the classes in the 1st and the 2nd year.

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

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	IN/0186	Mathematical Analysis 1	MAT/05	A	9	90	Loi Roberto
1	70/0001-M	Chemistry	CHIM/07	A	6	60	Vacca Annalisa
1	70/0004-M	Physics 1	FIS/01	A	8	80	D'Amico Nicolò
2	IN/0187	Integrated Course: Mathematics					
2	IN/0188	- Module: Mathematical Analysis 2	MAT/05	A	5	50	Piro Stella
2	IN/0079	- Module: Geometry and Algebra	MAT/03	A	7	70	Mei Carlo
2	IN/0155	Integrated Course: Information Processing Systems					
2	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	70/0005-M	Physics 2	FIS/01	A	7	70	Fiorentini Vincenzo

### Second year – enrolled student a.y. 2015/16 (Electrical and Electronical Engineering – 70/87)

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	70/0069-M	Applied Mathematics	MAT/08	A	6	60	Rodriguez Giuseppe
1	IN/0005	Communication Networks	ING-INF/03	C	6	60	Perra Cristian
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
<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	Perra Cristian
<b>Curriculum on Computer Engineering</b>							
1	IN/0002	Signal Theory	ING-INF/03	C	6	60	Perra Cristian



**Third year – enrolled student a.y. 2014/15 (Electrical and Electromechanical Engineering – 70/87)**

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	IN/0023	Integrated Course: Power Electronics and Electrical Power Systems					
1	IN/0024	- Module: Power Electronics	ING-IND/32	B	6	60	Gatto Gianluca
1	IN/0025	- Module: Fundamentals of Electric Power Systems	ING-IND/33	B	6	60	Pilo Fabrizio G.L.
<b>Curriculum on Electrical Engineering</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
2	IN/0006	Electrical Machines	ING-IND/32	B	6	60	Damiano Alfonso
2	IN/0026	Measurements on Power Systems	ING-INF/07	B	6	60	Sulis Sara
2	IN/0029	Fundamentals of Electric Power Distribution and Smart Grids	ING-IND/33	B	6	60	Pilo Fabrizio G.L.
<b>Curriculum on Electronic Engineering</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>Curriculum on Computer Engineering</b>							
1	IN/0031	Databases	ING-INF/05	A	6	60	Giacinto Giorgio
1	70/0078-M	Digital Systems Design	ING-INF/01	B	8	80	Raffo Luigi
2	IN/0032	Software Engineering	ING-INF/05	B	5	50	Didaci Luca
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:
2016/17	Mathematical Analysis 1	Integrated Course: Mathematics
	Physics 1	Physics 2
2015/16	Mathematical Analysis 1 Physics 1	All 2nd year exams
2014/15	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. 2016/17

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	AR/0006	Architectural Drawing and Surveying 1	ICAR/17	A	6	75	Bagnolo Vincenzo
1	AR/0020	Integrated Course in Mathematics					
	AR/0021	- Module: Mathematical Analysis	MAT/05	A	5	62.5	Saba Marianna
2	AR/0022	- Module: Geometry	MAT/03	A	5	62.5	Ratto Andrea
1-2	80/108	Materials Technology and Elements of Chemistry	ING-IND/22	C	7	87.5	Pia Giorgio
1-2	80/034	History of Architecture 1	ICAR/18	A	8	100	Cadinu Marco
	AR/0024	Integrated Laboratory of Design and Construction of Architecture 1					
1	AR/0025	- Module: Architectural Design 1	ICAR/14	B	10	125	Peghin Giorgio M. ( <i>corso A</i> ) Cocco Giovanni B. ( <i>corso B</i> )
2	AR/0026	- Module: Technological Design of Architecture 1	ICAR/10	B	5	62.5	Sanna Antonello ( <i>corso A</i> ) Sanjust Paolo ( <i>corso B</i> )
2	AR/0023	Geomaterials for Architecture	GEO/09	C	5	62.5	Grillo Silvana
2	80/104	Early Modern History	M-STO/02	C	4	50	Ortu Gian Giacomo

### Second year – enrolled student a.y. 2015/16

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	AR/0007	Architectural Drawing And Surveying 2	ICAR/17	A	6	75	Pirinu Andrea
1	AR/0009	Environmental Technical Physics	ING-IND/11	A	8	100	Frattolillo Andrea
	AR/0027	Integrated Laboratory of Design and Construction of Architecture 2					
1	AR/0028	- Module: Architectural Design 2	ICAR/14	B	8	100	Lecis Marco ( <i>corso A</i> ) Cherchi Pierfrancesco ( <i>corso B</i> )
2	AR/0029	- Module: Technological Design of Architecture 2	ICAR/10	B	5	62.5	Mura Emanuele ( <i>corso A+B</i> )
1-2	AR/0008	Structural Mechanics/Strength of Materials and Statics	ICAR/08	B	10	125	Cazzani Antonio M.
2	80/040	Fundamentals of Urban Planning	ICAR/20	B	5	62.5	Colavitti Anna Maria
2	80/039	History of Architecture 2	ICAR/18	A	8	100	Fonti Alessandro



**Third year – enrolled student a.y. 2014/15**

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	Fenu Luigi
	80/045	Integrated Course of Urban and Regional Planning					
1	80/045/1	- Module A	ICAR/20	B	5	62.5	Campagna Michele
2	80/045/2	- Module B	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	Atzeni Carlo ( <i>corso A</i> ) Dessi Adriano ( <i>corso B</i> )
2	AR/0032	- Module: Technological Design of Architecture 3	ICAR/10	C	5	62.5	Atzeni Carlo ( <i>corso A+B</i> )
2	80/043	Real Estate Appraisal 1	ICAR/22	B	5	62.5	Blecic Ivan

**Activities rules**

Academic Year Enrolment	You cannot take:	If you do not pass:
2015/16	Architectural Drawing and Surveying 2	Architectural Drawing and Surveying 1
	Structural Mechanics/Strength of Materials and Statics	Integrated Course in Mathematics
	History of Architecture 2	History of Architecture 1
2014/15	Structural Design and Analysis	Structural Mechanics/Strength of Materials
	Theory and History of Restoration	History of Architecture 2

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. 2016/17

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	62.5	Pellegrini Giorgio
1	80/052/2	- Module: History of Contemporary Art	L-ART/03	C	3	37.5	Pellegrini Giorgio
	AR/0010	Integrated Laboratory of Survey and Restoration					
1	AR/0010-1	- Module: Survey	ICAR/17	B	5	62.5	Bagnolo Vincenzo
2	AR/0010-2	- Module: Restoration	ICAR/19	B	5	62.5	Giannattasio Caterina
	AR/0011	Architectural and Urban Design Workshop 1					
1	AR/0011-1	- Module A	ICAR/14	B	8	100	Siddi Cesarina ( <i>corso A</i> ) Chiri Giovanni M. ( <i>corso B</i> )
2	AR/0011-2	- Module B	ICAR/14	B	6	75	Siddi Cesarina ( <i>corso A</i> ) Chiri Giovanni M. ( <i>corso B</i> )
	AR/0003	Multidisciplinary Workshop Building Design					
2	AR/0003-1	- Module: Building Design and Construction	ICAR/10	B	5	62.5	Desogus Giuseppe
2	AR/0003-2	- Module: Structural design	ICAR/09	B	5	62.5	Mistretta Fausto
2	AR/0003-3	- Module: Building Facilities	ING-IND/11	B	5	62.5	Ricciu Roberto
<b>Architecture Curriculum</b>							
2	AR/0012	Soil and Costruction Diagnosis	GEO/11	C	5	62.5	Balia Roberto
<b>Restoration Curriculum</b>							
1	AR/0013	Social and Local History	M-STO/02	C	5	62.5	Salice Giampaolo



Second year – enrolled student a.y. 2015/16

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	62,5	Abis Emanuela
1	AR/0014-2	- Module: Plan and Project Evaluation	ICAR/22	B	5	62,5	Blecic Ivan
1	AR/0014-3	- Module: Urban Sociology	SPS/10	B	5	62,5	Cois Ester
<b>Architecture Curriculum</b>							
1	80/057	Urban Transportation Infrastructures	ICAR/04	C	5	62,5	Pinna Francesco
	80/054	Laboratory Integrated Production and Construction					
1	80/054-1	-Module: Construction	ICAR/10	C	5	62,5	Loddo Gianraffaele
1	80/054/3	-Module: Production	ICAR/11	B	5	62,5	Quaquero Emanuela
2	AR/0015	Architectural and Urban Design Workshop 2	ICAR/14	B	5	62,5	Peghin Giorgio ( <i>corso A</i> ) Cadeddu Barbara ( <i>corso B</i> )
<b>Restoration Curriculum</b>							
	AR/0016	Integrated Course: Diagnostic Techniques and Materials for Architecture					
1	AR/0016-1	- Module: Physical Diagnosis of Constructions	GEO/11	C	4	50	Ranieri Gaetano
1	AR/0016-2	- Module: Materials and Techniques in Architecture and Conservation of Cultural Heritage	ING-IND/22	C	4	50	Meloni Paola
2	AR/0016-3	- Module: Mineralogical and Petrological Application for Architecture	GEO/09	C	3	37,5	Grillo Silvana M.
2	AR/0019	Restoration Laboratory	ICAR/19	B	6	75	Fiorino Donatella
	AR/0017	Integrated Course: Architecture and Statics of Historic Buildings					
2	AR/0017-1	- Module: Architecture of Historic Buildings	ICAR/10	C	4	50	Sanna Antonello
2	AR/0017-2	- Module: Statics of Historic Buildings	ICAR/08	C	4	50	Cazzani Antonio M.





## Chemical and Biotechnological Process Engineering (LM-22)

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

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	70/LM-0072	Principles of Chemical Engineering and Processes	ING-IND/24	B	9	90	Orrù Roberto
1	70/LM-0002	Analysis of Chemical and Biotechnological Processes	ING-IND/26	B	9	90	Grosso Massimiliano
	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. 2015/16

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

### enrolled student a.y. 2016/17 e 2015/16

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
<b>1<sup>st</sup> year</b>							
1	IN/0158	Biochemistry	BIO/10	C	6		Cabras Tiziana
1	70/LM-0039	Fundamentals of Machine Design	ING-IND/14	C	6	60	Baldi Antonio
1	70/LM-0094	Energy Systems 2	ING-IND/09	C	6	60	Cau Giorgio
1	IN/0233	Chemistry and Technology of Food	CHIM/10	C	6		Angioni Alberto
2	2487	Microbiology	MED/07	C	6		De Logu Alessandro
<b>2<sup>nd</sup> year</b>							
1	IN/0159	Applied Biotechnology	CHIM/08	C	6		Onnis Valentina
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



## Civil Engineering (LM-23)

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

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	Mura Iginò
2	IN/0179	- Module: Testing, Monitoring and Inspection of Structures	ICAR/09	B	6	60	De Nicolò 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>							
2	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	Balzano Andrea
<b>Curriculum Structures</b>							
2	IN/0194	Theory and Design of Steel Construction	ICAR/09	B	6	60	De Nicolò Barbara
<b>Curriculum Transportations</b>							
2	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. 2015/16

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					
2	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	70/LM-0079	Littoral Dynamics and Coastal Structures	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
	IN/0054	Integrated Course: Dynamics of Structures and Strengthening and Safety of Structures					
1	IN/0055	- Module: Dynamics of Structures	ICAR/08	B	6	60	Porcu Maria Cristina
2	IN/0056	- Module: Strengthening and Safety of Structures	ICAR/08	B	6	60	Brun Michele
2	IN/0053	Seismic Dynamics of Structures	ICAR/08	B	6	60	Porcu Maria Cristina
<b>Curriculum Transportations</b>							
2	70/LM-0095	Road, Airfield and Railway Pavements	ICAR/04	B	6	60	Portas Silvia
		<i>Alternative courses:</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>Alternative courses:</i>					
2	70/LM-0106	Urban and Metropolitan Transport	ICAR/05	B	6	60	Fantola Massimo
2	70/LM-0104	Rail Transport	ICAR/05	B	6	60	Olivio 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
1	IN/0152	Structures Finite Element Modeling	ICAR/09	F	2	30	Odoni Zaira
2	IN/0223	Design of Coastal Structures and Shore Protection	ICAR/02	F	2	30	Saba Andrea
2	IN/0153	Laboratory of Integrated Design of Roads, Railways and Airports	ICAR/04	F	2	30	Maltinti Francesca
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



## Telecommunication Engineering (LM-27)

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

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
	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	70/LM-0074	Wireless Network Design	ING-INF/02	B	7	70	Casula G. Andrea
1	70/LM-0100	Information Theory and Codes	ING-INF/03	B	12	120	Giusto Daniele
	IA/0016	Integrated Course: Communication Systems					
2	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	Nitti Michele
2	IA/0015	Models for Telecommunication Networks	ING-INF/04	C	6	60	Seatzu Carla
	IA/0012/EN	Integrated Course: Detection and Security					
2	IA/0013/EN	- Module: Machine Learning	ING-INF/05	C	6	60	Roli Fabio
2	IA/0014/EN	- Module: Computer Security	ING-INF/05	C	4	40	Giacinto Giorgio
2	IN/0224	Best Practices in Research and Development Projects	ING-INF/03	F	2	20	Sanna Randaccio Luca

### Second year – enrolled student a.y. 2015/16

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	70/LM-0074	Wireless Network Design	ING-INF/02	B	9	90	Casula G. Andrea Montisci Giorgio
1	70/LM-0085	Occupational Safety and Environmental Protection	ING-IND/28	C	6	60	Dentoni Valentina
1	70/LM-0033	Image and Video Processing	ING-INF/03	C	6	60	Ginesu Giaime
1	IN/0199	Innovative Architectures and Applications in the Internet	ING-INF/03	B	6	60	Atzori Luigi
2	IN/0061	NGN Technologies	ING-INF/03	B	6	60	Pilloni Virginia



## Electrical Engineering (LM-28)

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

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	Usai Mariangela
1	70/LM-0064	Measurements for Electric Energy	ING-INF/07	B	9	90	Muscas Carlo
	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 Pilo Fabrizio G.L.
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. 2015/16

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
	IN/0125	Integrated Course: Electrical Energy Management and Electrical Vehicles					
1	IN/0126	- Module: Electrical Energy Management	ING-IND/32	B	7	70	Damiano Alfonso
2	IN/0127	- Module: Electrical Vehicles	ING-IND/32	B	5	50	Marongiu Ignazio
	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. 2016/17


Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	IN/0200	Integrated Course: Integrated Circuits					
1	IN/0202	- Module: Analog Integrated Circuits	ING-INF/01	B	5	50	Barbaro Massimo
1	IN/0201	- Module: Digital Integrated Circuits	ING-INF/01	B	5	50	Barbaro Massimo
1	IN/0183	Integrated Course: Optoelectronics and Reliability					
1	IA/0184/EN	- Module: Optoelectronics 	ING-INF/01	B	5	50	Vanzi Massimo
1	IN/0185	- Module: Reliability of Electron Devices	ING-INF/01	B	5	50	Mura Giovanna
2	IA/0017	Wireless Transmission	ING-INF/03	C	6	60	Murroni Maurizio
2	IN/0119	Automata and Petri Nets	ING-INF/04	C	5	50	Giua Alessandro
2	70/LM-0088	Automatic Measurement Systems	ING-INF/07	B	6	60	Pegoraro Paolo A.
2	IN/0206	Advanced Electronic Devices and Technologies	ING-INF/01	B	7	70	Cosseddu Piero
1	70/LM-0067	<i>choose between:</i> Nanoelectronics	FIS/03	C	6	60	Melis Claudio
2	IA/0203/EN	Control of Network Systems 	ING-INF/04	C	6	60	Franceschelli Mauro
2	IA/0014/EN	Computer Security 	ING-INF/05	C	6	60	Giacinto Giorgio

### Second year – enrolled student a.y. 2015/16

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	70/LM-0099	<i>choose between:</i> Microwave Remote Sensing	ING-INF/02	B	7	70	Mazzarella Giuseppe
2	IN/0206	Advanced Electronic Devices and Technologies	ING-INF/01	B	7	70	Cosseddu Piero
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	IN/0205	- 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



**Other available activities**

Sem	Code course	Other activities	SSD	TAF	ECTS	H	Teacher
1	13174	Project management	SECS-P/08	F	4	36	Dessi Cinzia
2	IA/0027	Diagnostics of Electron Devices	NG-INF/01	F	2	30	Mura Giovanna
2	IN/0232	Labview	NG-INF/07	F	2	20	Sulis Sara
2	IN/0231	Microelectronic Design	NG-INF/01	F	2	30	Barbaro Massimo
2	IA/0028/EN	Machine Learning Lab 	ING-INF/05	F	4	40	Roli Fabio



## Energetic Engineering (LM-30)

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

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	Usai Mariangela
	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/LM-0011	Thermal Plant Control	ING-INF/04	C	6	60	Salimbeni Domenico
1	IN/0015	Steam Generating Units	ING-IND/09	C	6	60	Floris Francesco
1	IN/0199	Innovative Architectures and Applications in the Internet	ING-INF/03	C	6	60	Atzori Luigi
1	70/0068-M	Fluid Machinery and Energy Systems	ING-IND/09	C	6	60	Cocco Daniele
2	70/LM-0008	Combustion and Heat Transfer	ING-IND/09	C	6	60	Floris Francesco
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	70/LM-0078	Environmental Conscious Energy and Chemical Processes	ING-IND/25	C	6	60	Mascia Michele
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. 2015/16

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	70/LM-0011	Thermal Plant Control	ING-INF/04	C	9	90	Salimbeni Domenico
1	70/LM-0032	Applied Electromagnetism in Electrical and Energy Engineering	ING-IND/31	C	6	60	Usai Mariangela
	IN/0125	Integrated Course: Electrical Energy Management and Electrical Vehicles					
1	IN/0126	- Module: Electrical Energy Management	ING-IND/32	B	7	70	Damiano Alfonso
2	IN/0127	- Module: Electrical Vehicles	ING-IND/32	B	5	50	Marongiu Ignazio
2	70/LM-0078	Environmental Conscious Energy and Chemical Processes	ING-IND/25	B	9	90	Mascia Michele
2	70/LM-0098	Renewable Energy Technologies	ING-IND/09	B	6	60	Cocco Daniele

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/0154	Traffic Simulation Model Laboratory	ICAR/05	F	2	30	Meloni Italo
1	13174	Project Management	SECS-P/08	F	4	36	Dessi Cinzia
1	IN/0066	Symulation of Dynamical Systems with Matlab-Simulink	ING-INF/04	F	3	30	Pisano Alessandro



## Mechanical Engineering (LM-33)

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

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
	IN/0226	Integrated Course: Mechanical Behavior of Materials					
1	IN/0227	- Module: Mechanics of Materials	ING-IND/14	B	6	60	Aymerich Francesco
1	IN/0228	- Module: Experimental Mechanics	ING-IND/14	B	6	60	Ginesu Francesco
1	70/LM-0090	Manufacturing Systems	ING-IND/16	B	6	60	Buonadonna Pasquale
1-2	IN/0234	Industrial Plans	ING-IND/17	B	12	120	Pilloni Maria Teresa
2	IA/0038	Kinematics and Dynamics of Mechanisms	ING-IND/13	B	12	120	Ruggiu Maurizio

### Second year – enrolled student a.y. 2015/16

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	70/LM-0058	Fluid Machinery 2	ING-IND/08	B	10	100	Puddu Pierpaolo Ghisu Tiziano
1	70/LM-0094	Energy Systems 2	ING-IND/09	B	10	100	Cau Giorgio Tola Vittorio

### enrolled student a.y. 2016/17 and a.y. 2015/16

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							
2	70/LM-0008	Combustion and Heat Transfer	ING-IND/09	C	6	60	Floris Francesco
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	70/LM-0010	Automatic Control Systems	ING-INF/04	C	6	60	Pisano Alessandro
1	70/LM-0096	Experimentation in Fluid Machines	ING-IND/08	C	6	60	Mandas Natalino
2	IN/0129	Quality Management	ING-IND/16	C	6	60	Romano Daniele
2	IN/0065	Mechanics of Composite Materials	ING-IND/14	C	6	60	Aymerich Francesco
2	IN/0064	Computational Modeling of Fluid Systems	ING-IND/08	C	6	60	Ghisu Tiziano

### 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/0130	Nondestructive Testing	ING-IND/14	F	3	30	Pau Massimiliano
1	IN/0066	Symulation of Dynamical Systems with Matlab-Simulink	ING-INF/04	F	3	30	Pisano Alessandro
2	IA/0041	Fluid Automation	ING-IND/13	F	3	30	Manuello Bertetto Andrea
2	IN/0229	Mechanical Design Project	ING-IND/14	F	3	30	Ginesu Francesco






## Environmental and Land Engineering (LM-35)


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

Sem	Code course	Teaching course	SSD	TAF	ECTS	H	Teacher
1	70/LM-0006	Numerical Calculus and Applied Mathematics	MAT/08	C	8	80	Seatzu Sebastiano
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	IN/0076	Gis and Geostatistics Lab	GEO/09	F	5	80	Mazzella Antonio
1	70/LM-0057	Computer Science Lab	ING-INF/05	F	5	50	Fumera Giorgio
2	IN/0133	Integrated Course: Remediation and Chemical-Physical Treatment of Soils					
2	IN/0134	- Module: Contaminated Sites Remediation	ICAR/03	B	6	60	Muntoni Aldo
2	IN/0135	- Module: Chemical-Physical Treatment of Soils	ING-IND/29	B	6	60	Tilocca M. Caterina
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. 2015/16

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.
2	70/LM-0001	Water Supply and Sewerage	ICAR/02	C	6	60	Viola Francesco
2	70/LM-0054	Photogrammetry	ICAR/06	C	6	60	Vacca Giuseppina
2	IN/0243/EN	Geochemical Characterization 	GEO/09	C	6	60	Valera Paolo
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



<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					
2	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>One choise among:</i> Coastal Hydraulics	ICAR/01	B	6	60	Badas Maria Grazia
2	IN/0211	Design and Management of Geoenengineering 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	Lai Sabrina
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	Mazzella Antonio

**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	IA/0001	Workshop of Regional Planning	ICAR/20	3	45	Zoppi Corrado
1	IN/0219	Geology Lab	GEO/09	3	30	Naitza Stefano
1	IA/0001	Workshop of Regional Planning	ICAR/20	3	45	Zoppi Corrado
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	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.