



Faculty of Engineering and Architecture

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

Academic Year 2015/2016

1. Degree Programmes A.Y. 2015/16

In academic year 2015/16 the Faculty of Engineering and Architecture offers the following degree programmes:

Bachelor's degree programmes (Italian course classification)	Web site
Biomedical Engineering (L-8 & L-9)	http://corsi.unica.it/ingegneriabiomedica/
Chemical Engineering (L-9)	http://people.unica.it/ingegneriachimica/
Civil Engineering (L-7)	http://ingegneriacivile.unica.it/
Electrical and Electronic Engineering (L-8 & L-9)	http://corsi.unica.it/ingegneriaelettricaelettronica/
Mechanical Engineering (L-9)	http://people.unica.it/meccanica/
Environmental and Land Engineering (L-7)	http://ccs-iat.unica.it/
Architectural Science (L-17)	http://corsi.unica.it/scienzedellarchitettura/
Master's degree programmes (Italian course classification)	Web site
Architecture (LM-4)	http://corsi.unica.it/architettura/
Chemical and Biotechnological Process Engineering (LM-22)	http://people.unica.it/ingprochimbiotec/
Civil Engineering (LM-23)	http://ingegneriacivile.unica.it/
Telecommunication Engineering (LM-27)	http://corsi.unica.it/ingegneriadelletelecomunicazioni/
Electrical Engineering (LM-28)	http://corsi.unica.it/ingegneriaelettrica/
Electronic Engineering (LM-29)	http://corsi.unica.it/ingegneriaelettronica/
Energetic Engineering (LM-30)	http://corsi.unica.it/ingegneriaenergetica/
Mechanical Engineering (LM-33)	http://people.unica.it/meccanica/
Environmental and Land Engineering (LM-35)	http://ccs-iat.unica.it/

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)	23-24 July 2015 1-2 September 2015	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 and Electronic Engineering (70/87)		local restricted access	150	4
Architectural Science (80/71)	10 September 2015	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 programm)
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	-	12
Electrical Engineering (70/82)	open access	-	10
Electronic Engineering (70/83)	open access	-	11
Energetic Engineering (70/84)	open access	-	13
Mechanical Engineering (70/85)	open access	-	11
Environmental and Land Engineering (70/86)	open access	-	10



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

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

The assessment of personal proficiency for Engineering master's degrees will be held on 16th 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 must attend (from 14 to 10 October) intensive courses in the areas of Calculus and Geometry and algebra; they can also 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 and Electronic Engineering (70/87)	English	B1	3
Architectural Science (80/71)	English or other EU language	> A1	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: 28/09/2015 – 23/12/2015;

Second semester: 29/02/2015 – 07/06/2016.



In the period from November 16th to 21st and from April 18th to 23rd classes are suspended for intermediate tests (except for *Architecture courses*).

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 7th January to 27th February 2016;
- 3 from 8th June to 30th July 2016;
- 1 from 1st September to 30th September 2016.

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. 2015/2016

The teaching courses in academic year 2015/2016 are available in Annex A, for each degree programme.



**Annex A- Degree Programmes and teaching courses available in
A.Y. 2015/2016**

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 and Electronic 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

All courses are taught in Italian language

Abbreviations

SSD	Scientific Disciplinary Sector
TAF	Type of Educational Activity



Civil Engineering (L-7)

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

Sem	Teaching course	SSD	TAF	Credits	h	Teacher
1	Mathematical Analysis 1	MAT/05	A	9	90	Viglialoro Giuseppe
1	Physics 1	FIS/01	A	8	80	Concas Giorgio
1	Integrated Course: Chemistry and Materials Technology and Applied Chemistry					
1	- Module: Chemistry	CHIM/07	A	6	60	Delogu Francesco
2	- Module: Materials Technology and Applied Chemistry	ING-IND/22	C	5	50	Elsener Bernhard
2	Mathematical Analysis 2	MAT/05	A	5	50	Ragnedda Francesco
2	Geometry and Algebra	MAT/03	A	7	70	Ratto Andrea
2	Physics 2	FIS/01	A	7	70	Corpino Riccardo
2	Fundamentals of Computer Science	ING-INF/05	A	6	60	Fumera Giorgio
1-2	English Language Test		E	3		

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

Sem	Teaching course	SSD	TAF	Credits	h	Teacher
	Integrated Course: Statistics and Hydrology					
1	- Module: Statistics	SECS-S/02	C	4	40	Banni Aldo
1	- Module: Hydrology	ICAR/02	B	6	60	Sechi Giovanni M.
1	Mechanics	MAT/07	A	6	60	Mignemi Salvatore
1-2	Construction Theory	ICAR/08	B	10	100	Serra Mauro
	Integrated Course: Technical Architecture and Graphics Lab					
1	- Module: Graphics Lab		F	4	40	Casu Paola
2	- Module: Technical Architecture	ICAR/10	B	6	60	Loddo Gianraffaele
	Integrated Course: Topography and Topography Laboratory					
2	- Module: Topography	ICAR/06	B	6	60	Sanna Giovanna M.
2	- Module: Topography Laboratory		F	4	40	Sanna Giovanna M. (course A+B)
2	Decisional Methods in Economy	MAT/09	C	5	50	Mancini Simona



Third year – enrolled student a.y. 2013/14

Sem	Teaching course	SSD	TAF	Credits	h	Teacher
1	Integrated Course: Applied Thermodynamics and Electrotechnics					
	- Module: Applied Thermodynamics	ING-IND/11	C	5	50	Baccoli Roberto
1	- Module: Electrotechnics	ING-IND/31	C	5	50	Sias Giuliana
1	Fundamentals of Transport	ICAR/05	B	6	60	Fadda Paolo
1	Hydraulics	ICAR/01	B	10	100	Querzoli Giorgio (<i>course A</i>) Balzano Andrea (<i>course B</i>)
2	Integrated Course: Geotechnics and Construction of Road, Railways and Airport					
	- Module: Geotechnics	ICAR/07	B	6	60	Soccodato Fabio
2	- Module: Construction of Road, Railways and Airport	ICAR/04	B	6	60	Maltinti Francesca
1-2	Theory and Technology of Structures	ICAR/09	B	10	100	De Nicolo Barbara Pani Luisa
2	Integrated Course: Water Supply and Sewerage and Water Supply and Sewerage Lab					
	- Module: Water Supply and Sewerage	ICAR/02	B	6	60	Viola Francesco
2	- Module: Water Supply and Sewerage Lab		F	4	40	Viola Francesco
Elective activities			D	12		
Final Exam			E	3		

Activities rules

Academic Year Enrolment	If you do not pass:	You cannot take:
2015/16	Mathematical Analysis 1	Mathematical Analysis 2
	Physics 1	Physics 2
2014/15	Mathematical Analysis 1	All 2nd year exams
	Geometry and Algebra	
	Physics 1	
2013/14	Mathematical Analysis 2	All 3rd year exams
	Physics 2	
	Theory and Technology of Structures	Mechanics Construction Theory
	Integrated Course: Geotechnics and Construction of Road, Railways and Airport	Mechanics Construction Theory
	Integrated Course: Water Supply and Sewerage and Water Supply and Sewerage Lab	Integrated Course: Statistics and Hydrology

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. 2015/16

Sem	Teaching course	SSD	TAF	Credits	h	Teacher
1	Mathematical Analysis 1	MAT/05	A	9	90	Viglialoro Giuseppe
1	Chemistry	CHIM/07	A	6	60	Delogu Francesco
1	Physics 1	FIS/01	A	8	80	Concas Giorgio
2	Integrated Course: Mathematics - Module: Mathematical Analysis 2	MAT/05	A	5	50	Ragnedda Francesco
2	- Module: Geometry and Algebra	MAT/03	A	7	70	Ratto Andrea
2	Physics 2	FIS/01	A	7	70	Corpino Riccardo
2	Fundamentals of Computer Science	ING-INF/05	A	6	60	Fumera Giorgio
2	Graphics Lab		F	5	50	Cicalò Enrico
1-2	English Language Test		E	3		

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

Sem	Teaching course	SSD	TAF	Credits	h	Teacher
1	Integrated Course: Statistics and Hydrology - Module: Statistics	SECS-S/02	C	4	40	Banni Aldo
1	- Module: Hidrology	ICAR/02	B	6	60	Deidda Roberto
1	Business Economics	ING-IND/35	C	5	50	Tilocca Maria Caterina
1	Thermodynamics and Fluid Machinery	ING-IND/09	C	6	60	Cocco Daniele
1	Raw Materials Engineering	ING-IND/29	B	6	60	Serci Antonello
2	Integrated Course: Geology And Applied Geology - Module: Lithology and Geology	GEO/09	C	6	60	Naitza Stefano
2	- Module: Applied Geology	GEO/05	B	5	50	Barroccu Giovanni
2	Electrotechnics Laboratory		F	5	50	Montisci Augusto
2	Regional Planning	ICAR/20	B	6	60	Zoppi Corrado Garau Chiara
2	Topography and Cartography	ICAR/06	B	6	60	Banni Aldo



Third year – enrolled student a.y. 2013/14

Sem	Teaching course	SSD	TAF	Credits	h	Teacher
1	Transport Phenomena in Environmental Protection	ING-IND/24	B	6	60	Desogus Francesco
1	Hydraulics	ICAR/01	B	10	100	Querzoli Giorgio
1	Occupational Safety and Environmental Protection	ING-IND/28	B	6	60	Massacci Giorgio
1	Integrated Course: Science and Technology of Constructions					
1	- Module: Construction Theory	ICAR/08	B	6	60	Brun Michele
2	- Module: Theory and Technology of Structures	ICAR/09	B	6	60	Pani Luisa
2	Integrated Course: Geotechnics and Applied Seismology					
2	- Module: Geotechnics	ICAR/07	B	6	60	Tropeano Giuseppe
2	- Module: Applied Seismology	GEO/11	B	5	50	Deidda Gian Piero
2	Sanitary-Environmental Engineering	ICAR/03	B	7	70	Carucci Alessandra
Elective activities			D	13		
Final Exam			E	4		

The Study Programme includes also the following laboratories which can be chosen by students to satisfy part of the credits of own free choice:

Sem	Laboratories	CFU	Ore	Docente
1	Geology Lab	3	30	Naitza Stefano
1	Laboratory of Environmental Geophysics in Coastal Areas	3	30	Balia Roberto
1	Sanitary and Environmental Engineering Laboratory	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:
2015/16	Mathematical Analysis 1	Integrated Course: Mathematics
	Physics 1	Physics 2
2014/15	Mathematical Analysis 1 Physics 1	All 2nd year exams
2013/14	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. 2015/16

Sem	Teaching course	SSD	TAF	Credits	h	Teacher
1	Mathematical Analysis 1	MAT/05	A	9	90	Marras Monica
1	Chemistry	CHIM/07	A	6	60	Vacca Annalisa
1	Physics 1	FIS/01	A	8	80	Mura A. Andrea
2	Integrated Course: Mathematics - Module: Mathematical Analysis 2	MAT/05	A	5	50	Van Der Mee Cornelis M.V.
2	- Module: Geometry and Algebra	MAT/03	A	7	70	Mei Carlo
2	Physics 2	FIS/01	A	7	70	Salis Marcello
2	Fundamentals of Computer Science	ING-INF/05	A	6	60	Marcialis Gian Luca
1-2	English Language Test		E	3		

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

Sem	Teaching course	SSD	TAF	Credits	h	Teacher
1	Chemistry 2	CHIM/07	A	9	90	Delogu Francesco
1	Fundamentals of Machine Design	ING-IND/14	B	6	60	Bertolino Filippo
1	Applied Mathematics	MAT/08	A	6	60	Rodriguez Giuseppe
1	Chemical Thermodynamic	ING-IND/24	B	9	90	Locci Antonio M.
2	Electrotechnics	ING-IND/31	C	6	60	Cannas Barbara
2	Fundamental of Transport Phenomena	ING-IND/24	B	9	90	Cao Giacomo
2	Chemical Reaction Engineering	ING-IND/24	B	9	90	Carta Renzo M.S.
2	Applied Chemistry and Technology	ING-IND/22	B	9	90	Licheri Roberta Elsener Bernhard



Third year – enrolled student a.y. 2013/14

Sem	Teaching course	SSD	TAF	Credits	h	Teacher
1	Chemical Plant Design	ING-IND/25	B	9	90	Mascia Michele
1	Fluid Machinery and Energy Systems	ING-IND/09	C	9	90	Cocco Daniele
1	Fluid Mechanics	ICAR/01	C	9	90	Ferrari Simone
2	Reliability and Safety in the Process Industry	ING-IND/25	B	6	60	Viola Antonio
2	Instrumentation and Control	ING-IND/26	B	9	90	Baratti Roberto
Other activities			F	6		
Elective activities			D	12		
Final Exam			E	6		

Activities rules

Academic Year Enrolment	If you do not pass:	You cannot take:
2015/16	Mathematical Analysis 1	Integrated Course: Mathematics
	Physics 1	Physics 2
2014/15	Mathematical Analysis 1 Physics 1	All 2nd year exams
2013/14	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. 2015/16

Sem	Teaching course	SSD	TAF	Credits	h	Teacher
1	Mathematical Analysis 1	MAT/05	A	9	90	Marras Monica
1	Chemistry	CHIM/07	A	6	60	Vacca Annalisa
1	Physics 1	FIS/01	A	8	80	Mura A. Andrea
2	Integrated Course: Mathematics - Module: Mathematical Analysis 2	MAT/05	A	5	50	Van Der Mee Cornelis M.V.
2	- Module: Geometry and Algebra	MAT/03	A	7	70	Mei Carlo
2	Physics 2	FIS/01	A	7	70	Salis Marcello
2	Fundamentals of Computer Science	ING-INF/05	A	6	60	Marcialis Gian Luca
1-2	English Language Test		E	3		

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

Sem	Teaching course	SSD	TAF	Credits	h	Teacher
1	Fundamentals of Machine Design	ING-IND/14	B	6	60	Bertolino Filippo
1	Applied Mathematics	MAT/08	A	6	60	Rodriguez Giuseppe
1	Applied Mechanics	ING-IND/13	B	12	120	Manuello Bertetto Andrea
1-2	Manufacturing Technology	ING-IND/16	B	12	120	Dionoro Gennaro
2	Computer Aided Design		F	3	30	Ambu Rita
2	Technical Drawing	ING-IND/15	B	6	60	Ambu Rita Bertolino Filippo
2	Electrotechnics	ING-IND/31	C	6	60	Cannas Barbara
2	Integrated Course: Thermofluid Dynamics - Module: Fluid Dynamics	ING-IND/08	C	5	50	Mandas Natalino
2	- Module: Applied Thermodynamics	ING-IND/08	C	5	50	Cambuli Francesco



Third year – enrolled student a.y. 2013/14

Sem	Teaching course	SSD	TAF	Credits	h	Teacher
1	Fluid Machinery	ING-IND/08	B	8	80	Puddu Pierpaolo
1	Mechanical and Thermal Measurements	ING-IND/12	C	8	80	Vallascas Rinaldo
	<i>choose between:</i>					
1	Steam Generating Units	ING-IND/09	C	6	60	Floris Francesco
1	Statistics for Engineers	ING-IND/16	C	6	60	Romano Daniele
1	Integrated Course: Machine Components Design - Module: Fundamentals of Machine Design	ING-IND/14	B	6	60	Baldi Antonio
2	- Module: Machine Elements	ING-IND/14	B	6	60	Baldi Antonio
2	Mechanical Plants	ING-IND/17	B	8	80	Orrù Pier Francesco
2	Energy Systems	ING-IND/09	B	8	80	Cau Giorgio
Elective activities			D	12		
Final Exam			E	6		

Activities rules

Academic Year Enrolment	If you do not pass:	You cannot take:
2015/16	Mathematical Analysis 1	Integrated Course: Mathematics
	Physics 1	Physics 2
2014/15	Mathematical Analysis 1	All 2nd year exams
	Physics 1	
2013/14	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. 2015/16

Sem	Teaching course	SSD	TAF	Credits	H	Teacher
1	Mathematical Analysis 1	MAT/05	A	9	90	Iannizzotto Antonio
1	Chemistry	CHIM/07	A	6	60	Pilia Luca
1	Physics 1	FIS/01	A	8	80	Bongiovanni Giovanni
2	Integrated Course: Mathematics - Module: Mathematical Analysis 2	MAT/05	A	5	50	Iannizzotto Antonio
2	- Module: Geometry and Algebra	MAT/03	A	7	70	Uccheddu Daria
2	Integrated Course: Information Processing Systems - Module: Fundamentals of Computer Science	ING-INF/05	A	6	60	Marchesi Michele
2	- Module: Computer Architectures	ING-INF/05	A	6	60	Roli Fabio
2	Physics 2	FIS/01	A	7	70	Mallocci Giuliano
1-2	English Language Test		E	3		

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

Sem	Teaching course	SSD	TAF	Credits	H	Teacher
1	Integrated Course: Biochemistry and Molecular Biology - Module: Biochemistry	BIO/10	C	3	30	Arba Morena
1	- Module: Molecular Biology	BIO/11	C	2	20	Rosatelli Maria Cristina
1	Integrated Course: Transport Phenomena and Biomaterials - Module: Biomaterials	ING-IND/24	B	5	50	Orrù Roberto
1	- Module: Transport Phenomena in Biomedical Systems	ING-IND/24	B	5	50	Cao Giacomo
1	Integrated Course: Mechanics and Strength of Materials - Module: Fundamentals of Mechanics and Biomechanic	ING-IND/13	B	5	50	Leban Bruno
1	- Module: Strength of Materials	ING-IND/14	B	5	50	Pau Massimiliano
1	Applied Mathematics	MAT/08	A	6	60	Fermo Luisa
2	Integrated Course: Anatomy and Physiology - Module: Human Anatomy	BIO/16	C	4	40	Piras Franca
2	- Module: Fundamentals of Physiology	BIO/09	C	3	30	Tomassini Barbarossa Iole
2	Integrated Course: Fundamentals of Information Engineering - Module: Fundamentals of Systems Theory	ING-INF/04	B	5	50	Salimbeni Domenico
2	- Module: Electronical Signal Processing	ING-INF/06	B	5	50	Pani Danilo



2	Integrated Course: Electronic Design					
	- Module: Analog Electronics	ING-INF/01	B	5	50	Raffo Luigi
2	- Module: Digital Electronics	ING-INF/01	B	5	50	Palumbo Francesca

Third year – enrolled student a.y. 2013/14

Sem	Teaching course	SSD	TAF	Credits	H	Teacher
1	Electric Actuators and Converters	ING-IND/32	B	5	50	Marongiu Ignazio
1	Integrated Course: Bioelectronics					
	- Module: Devices Electronics	ING-INF/01	B	5	50	Cosseddu Piero
1	- Module: Bioelectronic Interfaces	ING-INF/06	B	5	50	Bonfiglio Annalisa
1	Integrated Course: Industrial Bioengineering 1					
	- Module: Mechanical Bioengineering	ING-IND/14	B	5	50	Pau Massimiliano
1	- Module: Chemical Bioengineering	ING-IND/24	B	5	50	Carta Renzo M.S.
1	Integrated Course: Fundamentals of Clinic and Pathology					
	- Module: Pathology	MED/08	C	2	20	Coni Pierpaolo
2	- Module: Internal Medicine	MED/09	C	2	20	Barcellona Doris
2	- Module: Instrumentation and Proesthetic Materials	MED/22	C	2	20	Sanfilippo Roberto
2	- Module: Radiology and Nuclear Medicine	MED/36	C	2	20	Saba Luca
2	<i>choose between:</i>					
	Biosensors	ING-INF/06	B	5	50	Carbonaro Nicola
2	Medical Instrumentation 2	ING-INF/06	B	5	50	Pani Danilo
2	<i>One choice among:</i>					
	Electromagnetic Compatibility	ING-INF/02	C	5	50	Fanti Alessandro
2	Fundamentals of Bioinformatics	ING-INF/05	C	5	50	Armano Giuliano
2	Fluid Dynamics	ING-IND/08	C	5	50	Mandas Natalino
2	Power and Electrical Safety in Hospital	ING-IND/33	C	5	50	Pisano Giuditta
Elective activities			D	12		
Other activities			F	4		
Final Exam			E	6		

Activities rules

Academic Year Enrolment	If you do not pass:	You cannot take:
2015/16	Mathematical Analysis 1	I. C.: Mathematics
	Physics 1	Physics 2
2014/15	Mathematical Analysis 1	All 2nd year exams
	Physics 1	
	I. C.: Anatomy and Physiology	Chemistry
	I. C.: Biochemistry and Molecular Biology	Chemistry
2013/14	I. C.: Transport Phenomena 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 and Electronic 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. 2015/16

Sem	Teaching course	SSD	TAF	Credits	H	Teacher
1	Mathematical Analysis 1	MAT/05	A	9	90	Loi Roberto
1	Chemistry	CHIM/07	A	6	60	Vacca Annalisa
1	Physics 1	FIS/01	A	8	80	D'Amico Nicolò
2	Integrated Course: Mathematics - Module: Mathematical Analysis 2	MAT/05	A	5	50	Piro Stella
2	- Module: Geometry and Algebra	MAT/03	A	7	70	Mei Carlo
2	Integrated Course: Information Processing Systems - Module: Fundamentals of Computer Science	ING-INF/05	A	6	60	Marchesi Michele
2	- Module: Computer Architectures	ING-INF/05	A	6	60	Roli Fabio
2	Physics 2	FIS/01	A	7	70	Fiorentini Vincenzo
1-2	English Language Test		E	3		

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

Sem	Teaching course	SSD	TAF	Credits	H	Teacher
1	Applied Mathematics	MAT/08	A	6	60	Rodriguez Giuseppe
1	Communication Networks	ING-INF/03	C	6	60	Perra Cristian
1	<i>Curriculum on Electrical Engineering</i> Engineering Physics	ING-IND/11	C	6	60	Baccoli Roberto
1	<i>Curriculum on Electronic Engineering</i> Signal Theory	ING-INF/03	C	6	60	Perra Cristian
1	<i>Curriculum on Computer Engineering</i> Signal Theory	ING-INF/03	C	6	60	Perra Cristian
1-2	Electrotechnics	ING-IND/31	B	12	120	Fanni Alessandra
1	Integrated Course: Analysis and Control of Dynamical Systems - Module: System Theory	ING-INF/04	B	6	60	Seatzu Carla
2	- Module: Automatic Control	ING-INF/04	B	6	60	Usai Elio
2	Fundamentals of Electronics	ING-INF/01	B	10	100	Martines Giovanni
2	Electrical and Electronic Measurements	ING-INF/07	B	9	90	Muscas Carlo



Third year – enrolled student a.y. 2013/14

Sem	Teaching course	SSD	TAF	Credits	H	Teacher
1	Integrated Course: Power Electronics and Electrical Power Systems					
	- Module: Power Electronics	ING-IND/32	B	6	60	Gatto Gianluca
1	- Module: Fundamentals of Electric Power Systems	ING-IND/33	B	6	60	Pilo Fabrizio G.L.
	<i>Curriculum on Electrical Engineering</i>					
1	Fluid Machinery and Energy Systems	ING-IND/09	C	6	60	Cocco Daniele
1	Occupational Safety and Environmental Protection	ING-IND/28	B	6	60	Dentoni Valentina
2	Electrical Machines	ING-IND/32	B	6	60	Damiano Alfonso
2	Measurements on Power Systems	ING-INF/07	B	6	60	Sulis Sara
2	Fundamentals of Electric Power Distribution and Smart Grids	ING-IND/33	B	6	60	Pilo Fabrizio G.L.
	<i>Curriculum on Electronic Engineering</i>					
1	Semiconductor Physics	FIS/03	C	6	60	Bernardini Fabio
1	Digital Systems Design	ING-INF/01	B	8	80	Raffo Luigi
2	Electromagnetic Fields	ING-INF/02	B	8	80	Mazzarella Giuseppe
2	Semiconductor Devices	ING-INF/01	C	6	60	Vanzi Massimo
	Other activities		F	2		
	<i>Curriculum on Computer Engineering</i>					
1	Databases	ING-INF/05	A	6	60	Giacinto Giorgio
1	Digital Systems Design	ING-INF/01	B	8	80	Raffo Luigi
2	Software Engineering	ING-INF/05	B	5	50	Marchesi Michele
2	Internet	ING-INF/03	C	6	60	Atzori Luigi
2	Object Oriented Programming Languages	ING-INF/05	B	5	50	Armano Giuliano
	Elective activities		D	12		
	Other activities		F	2		
	Final Exam		E	6		

Activities rules

Academic Year Enrolment	If you do not pass:	You cannot take:
2015/16	Mathematical Analysis 1	Integrated Course: Mathematics
	Physics 1	Physics 2
2014/15	Mathematical Analysis 1	All 2nd year exams
	Physics 1	
2013/14	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.



Architectural Science (L-17)

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

Sem	Teaching course	SSD	TAF	Credits	H	Teacher
1	Architectural Drawing and Surveying 1	ICAR/17	A	6	75	Bagnolo Vincenzo
1	Integrated Course in Mathematics					
	- Module: Mathematical Analysis	MAT/05	A	5	62.5	Ragnedda Francesco
2	- Module: Geometry	MAT/03	A	5	62.5	Ratto Andrea
1-2	Materials Technology and Elements of Chemistry	ING-IND/22	C	8	100	Sanna Ulrico U.M.
1-2	History of Architecture 1	ICAR/18	A	8	100	Cadinu Marco
1	Integrated Laboratory of Design and Construction of Architecture 1					
	- Module: Architectural Design 1	ICAR/14	B	8	100	Peghin Giorgio M. (<i>corso A</i>) Cocco Giovanni B. (<i>corso B</i>)
2	- 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	Geomaterials for Architecture	GEO/09	C	5	62.5	Grillo Silvana
2	Early Modern History	M-STO/02	C	5	62.5	Salice Giampaolo
1-2	English Knowledge Test ¹		E	2		

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

Sem	Teaching course	SSD	TAF	Credits	H	Teacher
1	Architectural Drawing And Surveying 2	ICAR/17	A	6	75	Pirinu Andrea
1	Environmental Technical Physics	ING-IND/11	A	8	100	Ricciu Roberto
1	Integrated Laboratory of Design and Construction of Architecture 2					
	- Module: Architectural Design 2	ICAR/14	B	8	100	Lecis Marco (<i>corso A</i>) Cherchi Pier Francesco (<i>corso B</i>)
2	- Module: Technological Design of Architecture 2	ICAR/10	B	5	62.5	Mura Emanuele (<i>corso A+B</i>)
1-2	Structural Mechanics/Strength of Materials and Statics	ICAR/08	B	10	125	Cazzani Antonio M.
2	Fundamentals of Urban Planning	ICAR/20	B	5	62.5	Colavitti Anna Maria
2	History of Architecture 2	ICAR/18	A	8	100	Fonti Alessandro
	Elective activities		D	10		



Third year – enrolled student a.y. 2013/14

Sem	Teaching course	SSD	TAF	Credits	H	Teacher
1	Building Production Processes and Methods	ICAR/11	B	5	62.5	Argiolas Carlo
1	Theory and History of Restoration	ICAR/19	B	5	62.5	Giannattasio Caterina
1-2	Structural Design and Analysis	ICAR/09	B	9	112.5	Fenu Luigi
	Integrated Course of Urban and Regional Planning					
1	- Module A	ICAR/20	B	5	62.5	Campagna Michele
2	- Module B	ICAR/20	B	5	62.5	Colavitti Anna Maria
	Integrated Laboratory of Design and Construction of Architecture 3					
1	- Module: Architectural Design	ICAR/14	B	8	100	Atzeni Carlo
2	- Module: Technical Architecture	ICAR/10	C	5	62.5	Atzeni Carlo
2	Real Estate Appraisal 1	ICAR/22	B	5	62.5	Blecic Ivan
	Internships, Computer Skills, Etc.		F	3	75	
	Elective activities		D	10		
	Final Exam		E	8		

Activities rules

Academic Year Enrolment	You cannot take:	If you do not pass:
2014/15	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
2013/14	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. 2015/16

Sem	Teaching course	SSD	TAF	Credits	H	Teacher
1	Integrated Course: History of Contemporary Art and Architecture					
1	- Module: History of Contemporary Architecture	ICAR/18	B	5	62.5	Pellegrini Giorgio
1	- Module: History of Contemporary Art	L-ART/03	C	3	37.5	Pellegrini Giorgio
1	Integrated Laboratory of Survey and Restoration					
1	- Module: Survey	ICAR/17	B	5	62.5	Bagnolo Vincenzo
2	- Modulo: Restoration	ICAR/19	B	5	62.5	Giannattasio Caterina
1	Architectural and Urban Design Workshop 1					
1	- Module A	ICAR/14	B	8	100	Siddi Cesarina (<i>corso A</i>) Chiri Giovanni M. (<i>corso B</i>)
2	- Module B	ICAR/14	B	6	75	Siddi Cesarina (<i>corso A</i>) Chiri Giovanni M. (<i>corso B</i>)
2	Multidisciplinary Workshop Building Design					
2	- Module: Building Design and Construction	ICAR/10	B	5	62.5	Desogus Giuseppe
2	- Module: Constructions	ICAR/09	B	5	62.5	Mistretta Fausto
2	- Module: Building Services	ING-IND/11	B	5	62.5	Frattolillo Andrea
2	<i>Architetcure Curriculum</i>					
2	Soil and Costruction Diagnosis	GEO/11	C	5	62.5	Ranieri Gaetano
1	<i>Restoration Curriculum</i>					
1	Social and Local History	M-STO/02	C	5	62.5	Ortu Gian Giacomo
	Elective activities ¹		D	4		

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

Sem	Teaching course	SSD	TAF	Credits	H	Teacher
1	Integrated Course: Urban Planning and Social and Economic Evaluation					
1	- Module: Urbanism	ICAR/20	B	5	62.5	Abis Emanuela
1	- Module: Urban Sociology	SPS/10	B	5	62.5	Cois Ester Meloni Benedetto
1	- Module: Plan and Project Evaluation	ICAR/22	B	5	62.5	Blecic Ivan



Architecture Curriculum						
1	Urban Transportation Infrastructures	ICAR/04	C	5	62,5	Pinna Francesco
	Laboratory Integrated Production and Construction					
2	-Module: Construction	ICAR/10	C	5	62,5	Loddo Gianraffaele
2	-Module: Production	ICAR/11	B	5	62,5	Quaquero Emanuela
2	Architectural and Urban Design Workshop 2	ICAR/14	B	5	62,5	Peghin Giorgio (<i>corso A</i>) Cadeddu Barbara (<i>corso B</i>)
Restoration Curriculum						
	Integrated Course: Diagnostic Techniques and Materials for Architecture					
1	- Module: Physical Diagnosis of Constructions	GEO/11	C	4	50	Ranieri Gaetano
1-2	- Module: Materials and Techniques in Architecture and Conservation of Cultural Heritage	ING-IND/22	C	4	50	Pia Giorgio
1	- Module: Mineralogical and Petrological Application for Architecture	GEO/09	C	3	37.5	Grillo Silvana M.
2	Restoration Laboratory	ICAR/19	B	6	75	Fiorino Donatella
	Integrated Course: Architecture and Statics of Historic Buildings					
2	- Module: Architecture of Historic Buildings	ICAR/10	C	4	50	Sanna Antonello
2	- Module: Statics of Historic Buildings	ICAR/08	C	4	50	Cazzani Antonio M.
Internship			F	5	125	
Architecture Curriculum						
Final Examination			E	20		
Restoration Curriculum						
Final Examination			E	15		



Chemical and Biotechnological Process Engineering (LM-22)

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

Sem	Teaching course	SSD	TAF	Credits	H	Teacher
1	Principles of Chemical Engineering and Processes	ING-IND/24	B	9	90	Orrù Roberto
1	Analysis of Chemical and Biotechnological Processes	ING-IND/26	B	9	90	Grosso Massimiliano
2	Industrial and Energetic Processes	ING-IND/27	B	9	90	Palmas Simonetta
2	Environmental Conscious Energy and Chemical Processes	ING-IND/25	B	9	90	Mascia Michele
2	Environmental Chemical Engineering	ING-IND/25	B	9	90	Lallai Antonio

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

Sem	Teaching course	SSD	TAF	Credits	H	Teacher
1	Process Modeling and Simulation	ING-IND/26	B	9	90	Baratti Roberto
1	Advanced Systems of Process Control	ING-IND/26	B	9	90	Tronci Stefania
2	Environmental Chemical Engineering	ING-IND/25	B	9	90	Lallai Antonio
	Other activities		F	3		
	Elective activities		D	9		
	Internship		F			
	Final Exam		E	18		

enrolled student a.y. 2015/16 e 2014/15

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



Table 1. Three courses among:

Sem	Teaching course	SSD	TAF	Credits	H	Teacher
1 anno						
1	Biochemistry (<i>borrowed from Farmacia</i>)	BIO/10	C	6		Messana Irene
1	Fundamentals of Machine Design	ING-IND/14	C	6	60	Baldi Antonio
1	Energy Systems 2	ING-IND/09	C	6	60	Cau Giorgio
1	Chemistry and Technology of Food	CHIM/10	C	6		Angioni Alberto
2	Microbiology (<i>borrowed from Farmacia</i>)	MED/07	C	6		De Logu Alessandro
2 anno						
1	Applied Biotechnology (<i>borrowed from Chimica e Tecnologia Farmaceutiche</i>)	CHIM/08	C	6		Onnis Valentina
1	Physical Chemistry of Interphases (<i>borrowed from Scienze chimiche</i>)	CHIM/02	C	6		Monduzzi Maura
1	Project management (<i>borrowed from Economia manageriale</i>)	SECS-P/08	C	6	60	Dessì Cinzia



Civil Engineering (LM-23)

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

Sem	Teaching course	SSD	TAF	Credits	h	Teacher
1	Mathematical Models and Methods in Engineering	MAT/09	C	6	60	Zuddas Paola
1	Spatial Planning	ICAR/20	C	6	60	Campagna Michele
	Integrated Course: Construction Theory 2 and Testing, Monitoring and Inspection of Structures					
1	- Module: Construction Theory 2	ICAR/08	B	6	60	Mura Igino
2	- Module: Testing, Monitoring and Inspection of Structures	ICAR/09	B	6	60	De Nicolo Barbara
	<i>Alternative courses</i>					
	Integrated Course: Construction of Road, Railways and Airport 2 and Transportation Planning					
1	- Module: Construction of Road, Railways and Airport 2	ICAR/04	B	6	60	Coni Mauro
2	- Module: Transportation Planning	ICAR/05	B	6	60	Meloni Italo
	Integrated Course: Road, Airfield and Railway Pavements and Transportation Planning					
2	- Module: Road, Airfield and Railway Pavements	ICAR/04	B	6	60	Coni Mauro
2	- Module: Transportation Planning	ICAR/05	B	6	60	Meloni Italo
	Curriculum Hydraulics					
	Integrated Course: Hydraulics 2 and Maritime Hydraulics					
2	- Module: Hydraulics 2	ICAR/01	B	6	60	Badas Maria Grazia
2	- Module: Maritime Hydraulics	ICAR/01	B	6	60	Balzano Andrea
	Curriculum Structures					
2	Theory and Design of Steel Construction	ICAR/09	B	6	60	De Nicolo Barbara
2	Advanced Solid and Structural Mechanics (<i>alternative with Sismic Dynamics Of Structures – 2° year</i>)	ICAR/08	B	6	60	Brun Michele
	Curriculum Transportations					
	Integrated Course: Transport System Design and Theory and Technology Traffic Flow					
2	- Module: Transport System Design	ICAR/05	B	6	60	Fadda Paolo
2	- Module: Theory and Technology Traffic Flow	ICAR/05	B	6	60	Olivo Alessandro



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

Sem	Teaching course	SSD	TAF	Credits	h	Teacher
1	Foundations and Earth Retaining Structure	ICAR/07	C	6	60	Soccodato Fabio M.
1	Watershed and Stream Restoration Engineering	ICAR/02	B	6	60	Montaldo Nicola
1	Integrated Course: Computational Structural Analysis and Design and Theory and Technology Of Structures 2 - Module: Computational Structural Analysis and Design	ICAR/09	B	6	60	Meloni Daniel
2	- Module: Theory and Technology of Structures 2	ICAR/09	B	6	60	Concu Giovanna
<i>Curriculum Hydraulics</i>						
1	Hydrological Models	ICAR/02	B	6	60	Deidda Roberto
2	Water Systems Planning and Management	ICAR/02	B	6	60	Sechi Giovanni M.
2	Littoral Dynamics and Coastal Structures	ICAR/02	B	6	60	Montaldo Nicola
<i>Curriculum Structures</i>						
1	Theory and Design of Bridges Integrated Course: Dynamics of Structures and Strengthening and Safety of Structures	ICAR/09	B	6	60	Gamberini Gianpaolo
1	- Module: Dynamics of Structures	ICAR/08	B	6	60	Porcu Maria Cristina
2	- Module: Strengthening and Safety of Structures	ICAR/08	B	6	60	Serra Mauro
2	Sismic Dynamics of Structures (<i>alternative with Advanced Solid and Structural Mechanics - 1° year</i>)	ICAR/08	B	6	60	Porcu Maria Cristina
<i>Curriculum Transportations</i>						
1	Road, Airfield and Railway Pavements	ICAR/04	B	6	60	Coni Mauro
<i>Alternative courses:</i>						
2	Air Transport	ICAR/05	B	6	60	Devoto Roberto
2	Logistic and Freight Transportation	ICAR/05	B	6	60	Devoto Roberto
<i>Alternative courses:</i>						
2	Urban and Metropolitan Transport	ICAR/05	B	6	60	Fantola Massimo
2	Rail Transport	ICAR/05	B	6	60	Olivo Alessandro
Other activities			F	4		
Elective activities			D	12		
Final Exam			E	14		



Other optional activities:

Sem	Laboratories	CFU	h	Teacher
1	Traffic Simulation Model Laboratory	2	30	Meloni Italo
2	Design of Coastal Structures and Shore Protection	2	30	Saba Andrea
2	Laboratory of Integrated Design of Roads, Railways and Airports	2	30	Maltinti Francesca
2	Watershed and Stream Restoration Engineering Laboratory	2	30	Saba Andrea
2	Structures Finite Element Modeling	2	30	Odoni Zaira
2	Structural Reconditioning: Analysis, Diagnosis, Retrofitting	2	30	Concu Giovanna



Telecommunication Engineering (LM-27)

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

Sem	Teaching course	SSD	TAF	Credits	h	Teacher
1	Integrated Course: Operating Systems and Law					
1	- Module: Operating Systems	ING-INF/05	C	7	70	Giacinto Giorgio
1	- Module: Computer Science and New Technologies: Legal Aspects	ING-INF/03	C	4	40	Farina Massimo
1	Microwave Remote Sensing	ING-INF/02	B	7	70	Mazzarella Giuseppe
1	Information Theory and Codes	ING-INF/03	B	12	120	Giusto Daniele
2	Integrated Course: Communication Systems					
2	- Module: Digital Communications	ING-INF/03	B	6	60	Murrone Maurizio
2	- Module: Mobile Communications	ING-INF/03	C	4	40	Nitti Michele
2	Industrial Automation	ING-INF/04	C	6	60	Seatzu Carla
2	Integrated Course: Pattern Recognition and Security					
2	- Module: Pattern Recognition	ING-INF/05	C	6	60	Roli Fabio
2	- Module: Computer Security	ING-INF/05	C	4	40	Giacinto Giorgio
2	Best Practices in Research and Development Projects		F	2	20	Sanna Randaccio Luca

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

Sem	Teaching course	SSD	TAF	Credits	h	Teacher
1	Wireless Network Design	ING-INF/02	B	9	90	Casula G. Andrea
1	Occupational Safety and Environmental Protection	ING-IND/28	C	6	60	Dentoni Valentina
1	Image and Video Processing	ING-INF/03	C	6	60	Ginesu Giaime
1	Innovative Architectures and Applications in the Internet	ING-INF/03	B	6	60	Atzori Luigi
2	NGN Technologies	ING-INF/03	B	6	60	Pilloni Virginia
	Other activities		F	4		
	Elective activities		D	10		
	Final Exam		E	15		



Electrical Engineering (LM-28)

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

Sem	Teaching course	SSD	TAF	Credits	h	Teacher
1	Analysis and Control of MIMO Systems	ING-INF/04	C	6	60	Usai Elio
1	Applied Electromagnetism in Electrical and Energy Engineering	ING-IND/31	B	9	90	Usai Mariangela
1	Measurements for Electric Energy	ING-INF/07	B	9	90	Muscas Carlo
1	Integrated Course: Power Systems: Analysis, Dynamics and Stability - Module: Power Systems Analysis and Control	ING-IND/33	B	6	60	Celli Gianni Pilo Fabrizio G.L.
2	- Module: Power Systems Dynamics and Stability	ING-IND/33	B	6	60	Celli Gianni
2	Electrical Drives and Electromagnetic Compatibility	ING-IND/32	B	9	90	Gatto Gianluca Marongiu Ignazio
2	Safety and Project Management at Construction Sites	ING-IND/28	C	6	60	Dentoni Valentina
Elective activities			D	9		

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

Sem	Teaching course	SSD	TAF	Credits	h	Teacher
1	Power Systems Generation and Economics	ING-IND/33	B	9	90	Ghiani Emilio
1	Integrated Course: Electrical Energy Management and Electrical Vehicles - Module: Electrical Energy Management	ING-IND/32	B	7	70	Damiano Alfonso
2	- Module: Electrical Vehicles	ING-IND/32	B	5	50	Marongiu Ignazio
1	Integrated Course: Circuits Design for Signal Processing - Module: Nonlinear Systems and Chaos	ING-IND/31	B	6	60	Cannas Barbara
2	- Module: Analog and Digital Filters	ING-IND/31	B	6	60	Montisci Augusto
Elective activities			D	6		
Other activities			F	6		
Final Exam			E	15		



Electronic Engineering (LM-29)

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

Sem	Teaching course	SSD	TAF	Credits	h	Teacher
1	Integrated Course: Integrated Circuits					
1	- Module: Analog Integrated Circuits	ING-INF/01	B	5	50	Barbaro Massimo
1	- Module: Digital Integrated Circuits	ING-INF/01	B	5	50	Barbaro Massimo
1	Integrated Course: Optoelectronics and Reliability					
1	- Module: Optoelectronics	ING-INF/01	B	5	50	Vanzi Massimo
1	- Module: Reliability of Electron Devices	ING-INF/01	B	5	50	Mura Giovanna
2	Digital Communications	ING-INF/03	C	6	60	Murrone Maurizio
2	Automata and Petri Nets	ING-INF/04	C	5	50	Giua Alessandro
2	Automatic Measurement Systems	ING-INF/07	B	6	60	Pegoraro Paolo A.
2	<i>choose between:</i>					
2	Multi-Agent Control Systems	ING-INF/04	C	6	60	Franceschelli Mauro Giua Alessandro
2	Computer Security	ING-INF/05	C	6	60	Giacinto Giorgio

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

Sem	Teaching course	SSD	TAF	Credits	h	Teacher
1	Advanced Control Systems	ING-INF/04	C	7	70	Usai Elio
1	<i>choose between:</i>					
1	Advanced Electronic Devices and Technologies	ING-INF/01	B	7	70	Cosseddu Piero
1	Microwave Remote Sensing	ING-INF/02	B	7	70	Mazzarella Giuseppe
1	Integrated Course: Operating Systems and Artificial Intelligence					
1	- Module: Operating Systems	ING-INF/05	C	7	70	Giacinto Giorgio
1	- Module: Artificial Intelligence	ING-INF/05	C	5	50	Fumera Giorgio
2	Integrated Course: Computer Architectures and Integrated Systems					
2	- Module: Computer Architectures	ING-INF/01	B	5	50	Meloni Paolo
2	- Module: Embedded Systems	ING-INF/01	B	5	50	Meloni Paolo
2	Design of Microwave Circuits	ING-INF/02	B	10	100	Montisci Giorgio
	Elective activities		D	8		
	Other activities (Table 1)		F	4		
	Final Exam		E	15		



Table 1 - 4 Credits chosen among:

Sem	Other activities	SSD	Credits	h	Teacher
1	Project management	SECS-P/08	4	36	Dessi Cinzia
2	Diagnostics of Electron Devices	ING-INF/01	2	20	Mura Giovanna
2	Labview	ING-INF/07	2	20	Sulis Sara
2	Microelectronic Design	ING-INF/01	2	20	Barbaro Massimo
2	Mobile Communications	ING-INF/03	4	40	Nitti Michele



Energetic Engineering (LM-30)

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

Sem	Teaching course	SSD	TAF	Credits	h	Teacher
1	Integrated Course: Energetics and Thermal Hvac Systems					
1	- Module: Thermal Hvac Systems	ING-IND/11	B	6	60	Innamorati Roberto
1	- Module: Energetics	ING-IND/11	B	6	60	Mastino Costantino C.
1	Power Systems Generation and Economics	ING-IND/33	B	9	90	Ghiani Emilio
1	Occupational Safety and Environmental Protection		F	6	60	Dentoni Valentina
2	Nuclear Reactor Physics	FIS/04	C	9	90	Cicalò Corrado Salimbeni Domenico
2	Exploration Geophysics	GEO/11	C	6	60	Deidda Gian Piero
2	Energy Systems 1	ING-IND/09	B	8	80	Cau Giorgio
	Elective activities		D	6		

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

Sem	Teaching course	SSD	TAF	Credits	h	Teacher
1	Thermal Plant Control	ING-INF/04	C	9	90	Salimbeni Domenico
1	Applied Electromagnetism in Electrical and Energy Engineering	ING-IND/31	C	6	60	Usai Mariangela
1	Integrated Course: Electrical Energy Management and Electrical Vehicles					
1	- Module: Electrical Energy Management	ING-IND/32	B	7	70	Damiano Alfonso
2	- Module: Electrical Vehicles	ING-IND/32	B	5	50	Marongiu Ignazio
2	Environmental Conscious Energy and Chemical Processes	ING-IND/25	B	9	90	Mascia Michele
2	Renewable Energy Technologies	ING-IND/08	B	6	60	Cocco Daniele
	Elective activities		D	7		
	Final Exam		E	15		



Mechanical Engineering (LM-33)

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

Sem	Teaching course	SSD	TAF	Credits	h	Teacher
1	Integrated Course: Mechanical Behavior of Materials					
1	- Module: Mechanics of Materials	ING-IND/14	B	6	60	Aymerich Francesco
1	- Module: Experimental Mechanics	ING-IND/14	B	6	60	Ginesu Francesco
1	Mechanical and Thermal Measurements 2	ING-IND/12	B	6	60	Vallascas Rinaldo
1	Manufacturing Systems	ING-IND/16	B	6	60	Buonadonna Pasquale
1-2	Industrial Plans	ING-IND/17	B	12	120	Pilloni Maria Teresa
2	Dynamic of Mechanical Systems	ING-IND/13	B	10	100	Ruggiu Maurizio

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

Sem	Teaching course	SSD	TAF	Credits	h	Teacher
1	Fluid Machinery 2	ING-IND/08	B	10	100	Cabitzza Salvatore
1	Energy Systems 2	ING-IND/09	B	10	100	Cau Giorgio Tola Vittorio
	Elective activities		D	12		
	Final Exam		E	15		

First year – enrolled student a.y. 2015/16 and a.y. 2014/15

Sem	Teaching course	SSD	TAF	Credits	h	Teacher
1-2	Courses from Table 1		C	24	240	
1-2	Courses from Table 2		F	3	30	

Table 1. Four courses to choose among the following:

Sem	Teaching course	SSD	TAF	Credits	h	Teacher
1 year						
2	Combustion and Heat Transfer	ING-IND/09	C	6	60	Floris Francesco
2	Finite Elements Analysis	ING-IND/14	C	6	60	Bertolino Filippo
2	Renewable Energy Technologies	ING-IND/08	C	6	60	Cocco Daniele
2 year						
1	Automatic Control Systems	ING-INF/04	C	6	60	Pisano Alessandro
1	Quality Management	ING-IND/16	C	6	60	Romano Daniele
1	Experimentation in Fluid Machines	ING-IND/08	C	6	60	Mandas Natalino
2	Dynamics and Control of Energy Systems	ING-IND/08	C	6	60	Puddu Pierpaolo
2	Mechanics of Composite Materials	ING-IND/14	C	6	60	Aymerich Francesco
2	Computational Modeling of Fluid Systems	ING-IND/08	C	6	60	Ghisu Tiziano



Tabella 2. One laboratory to choose among the following:

Sem	Insegnamento	SSD	TAF	CFU	Ore	Docente
1	Symulation of Dynamical Systems with Matlab-Simulink	ING-INF/04	F	3	30	Pisano Alessandro
2	Nondestructive Testing	ING-IND/14	F	3	30	Pau Massimiliano
2	Modeling and Simulation of Energy Systems	ING-IND/09	F	3	30	Tola Vittorio
2	Mechanical Design Project	ING-IND/14	F	3	30	Ginesu Francesco



Environmental and Land Engineering (LM-35)

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

Sem	Teaching course	SSD	TAF	Credits	H	Teacher
1	Numerical Calculus and Applied Mathematics	MAT/08	C	8	80	Seatzu Sebastiano
1	Applied Geophysics	GEO/11	B	6	60	Balia Roberto
1	Environmental Geoengineering	ING-IND/28	B	6	60	Manca Pier Paolo
1	Gis and Geostatistics Lab	GEO/09	F	5	80	Mazzella Antonio
1	Computer Science Lab	ING-INF/05	F	5	50	Fumera Giorgio
2	Integrated Course: Remediation and Chemical-Physical Treatment of Soils - Module: Contaminated Sites Remediation	ICAR/03	B	6	60	Muntoni Aldo
2	- Module: Chemical-Physical Treatment of Soils	ING-IND/29	B	6	60	Serci Antonello
2	Hydrogeology	GEO/05	B	6	60	Uras Gabriele
2	Environmental Hydraulics	ICAR/01	B	6	60	Querzoli Giorgio
2	Impact Assessment and Environmental Rehabilitation	ING-IND/28	B	6	60	Massacci Giorgio

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

Sem	Teaching course	SSD	TAF	Credits	H	Teacher
1	<i>One choice among:</i> Foundations and Earth Retaining Structures	ICAR/07	C	6	60	Soccodato Fabio M.
1	Recovery of Secondary Raw Materials	ING-IND/29	C	6	60	Surracco Marco
2	Water Supply and Sewerage	ICAR/02	C	6	60	Viola Francesco
2	Geochemical Characterization	GEO/09	C	6	60	Valera Paolo
2	Safety and Project Management at Construction Sites	ING-IND/28	C	6	60	Dentoni Valentina
	Curriculum Environmental technologies					
1	Solid Waste Management	ICAR/03	B	9	90	Muntoni Aldo
1	Wastewater Treatment Plants	ICAR/03	B	9	90	Carucci Alessandra Cappai Giovanna S.
2	Integrated Course: Treatment of Fluids and Waste Gases - Module: Treatment of Fluids	ING-IND/29	B	6	60	Surracco Marco
2	- Module: Treatment of Gaseous Effluents	ING-IND/25	B	6	60	Lallai Antonio



Sem	Teaching course	SSD	TAF	Credits	H	Teacher
Curriculum Geo-engineering and Land protection						
Integrated Course: Hydrogeological Protection						
1	- Module: Watershed and Stream Restoration Engineering	ICAR/02	B	6	60	Montaldo Nicola
1	- Module: Slope Instability and Hydrogeological Risk	GEO/05	B	6	60	Uras Gabriele
Integrated Course: Rock Engineering						
1	- Module: Rock Mechanics	ING-IND/28	B	6	60	Grosso Battista
2	- Module: Excavation Engineering and Underground Works	ING-IND/28	B	6	60	Manca Pier Paolo
<i>One choice among:</i>						
2	Coastal Hydraulics	ICAR/01	B	6	60	Badas Maria Grazia
2	Design and Management of Geoengineering Works for Environment Protection	ING-IND/28	B	6	60	Grosso Battista
Curriculum Regional and Urban Planning						
Integrated Course: Strategic Environmental Planning						
1	- Module: Environmental Planning	ICAR/20	B	6	60	Lai Sabrina
1	- Module: Strategic Planning	ICAR/20	B	6	60	Zoppi Corrado
Integrated Course: Georesources Planning						
2	- Module: Regional Planning of Georesources	ICAR/20	B	6	60	Balletto Ginevra
2	- Module: Georesources	GEO/09	C	6	60	Mazzella Antonio
<i>One choice among:</i>						
2	Photogrammetry	ICAR/06	B	6	60	Vacca Giuseppina
2	Transportation Planning	ICAR/05	B	6	60	Meloni Italo
Elective activities			D	9		
Final Exam			E	15		

The Study Programme includes also the following laboratories which can be chosen by students to satisfy part of the credits of own free choice:

Sem	Laboratory	SSD	Credits	h	Teacher
1	Geology Lab	GEO/09	3	30	Naitza Stefano
1	Laboratory of Environmental Geophysics in Coastal Areas	GEO/11	3	30	Balia Roberto
1	Sanitary and Environmental Engineering Laboratory	ICAR/03	2	25	De Gioannis Giorgia
2	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.