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COMBINED BACHELOR AND MASTER
- 300/360 ECTS) IN ARCHITECTURE
AND BUILDING ENGINEERING
A.Y. 2013/2014

Programme Director Prof. Roberto Mingucci

REPORT

Study Programme Report
Architecture and Building Engineering
Programme ex D.M. 270/04 - Code 0940 - Class LM-4 C.U.
School of Engineering and Architecture
Programme Director Prof. Roberto Mingucci

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WHAT IS THE STUDY PROGRAMME REPORT?

What is the Study Programme Report?

The Study Programme Report provides updated information which is important for the purposes of Quality Assurance and is published annually by the University of Bologna.

The main aspects of the teaching programme are described in detail, with a view to assuring the principle of transparency and promoting self-assessment and continuous improvement processes.

The document provides a concrete overview of the features and results of the Study Programme for students, families, employers and so on.

For example, regarding the current issue of employment, it describes the learning outcomes and career opportunities; it also includes statistics on the percentage of employed graduates (D.4. Employment situation).

The document is organised into five sections and a glossary:

A. Presentation and prospects

Key information on the Study Programme, including the expected learning outcomes, career opportunities and further studies.

B. Teaching and Learning

The updated course structure diagram with the full titles and listings of the course units and the latest published lecture timetable.

C. Resources and services

The list of teaching staff and their relative curricula, the offices (secretariats), services (work placements) and infrastructures (libraries, laboratories) available to students.

D. The Study Programme in Figures

Key data shows how many students are enrolled, how many have been assigned additional learning requirements, how many drop out after the first year, how many graduate in line with the programme schedule, the opinions of attending and graduating students on the teaching programmes and information concerning graduate employment.

E. Find out more: the quality of your Study Programme

How the quality system applied to your Study Programme works. The quality system of your Study Programme is a set of processes and responsibilities adopted to guarantee the quality of all Study Programmes at the University of Bologna.

NOTES:

- Reports are available for all Study Programmes for which it is possible to enrol in the first year in academic year 2012/2013: the information and data provided is as updated as possible.
- Sections A, B and C provide data for the academic year 2012/2013.
- Section D presents data regarding the Study Programmes in the last three academic years.
- The information and data were taken from the University databases and the reports published by the [Statistical Observatory of the University of Bologna](#) and [AlmaLaurea](#), and are updated to **15 June 2012**.

A. PRESENTATION AND PROSPECTS

This section presents the key information concerning the Study Programme, including the expected learning outcomes, career opportunities and further studies, updated to the academic year 2013/2014.

A.1. PRESENTATION

This paragraph provides information on the specific learning outcomes of the Study Programme and the curriculum.

The second cycle degree programme in Construction-Architectural Engineering firstly provides a sound background in mathematics and physics, history, drafting and structural engineering.

Specifically, as regards mathematics and physics, the course units aim to teach students a scientific method and provide experimental skills and the knowledge required to resolve technical problems related to the design of constructions and residential structures. As far as the history of architecture is concerned, the skills required revolve around historical understanding and critical evaluation of works in relation to context, and of the materials and techniques used, whereas for the drafting methods in architecture and living space, the training focuses on different elements of the subject as an instrument of knowledge, development and communication of the project design. For structural engineering, the degree programme provides the necessary skills for the conception, modelling and construction of structures. In addition to this background, and constantly coming into contact throughout the programme, the degree programme includes training in the methods and techniques that are characteristic of engineering as regards the design of the structural and installation components of construction, and the production and use of materials, environmental control of architectural and urban spaces and the skills that characterise architecture and deal with the design project as a synthesis between form, function and construction, and the type, morphology and language of the architectural organism and the recovery and restoration of urban constructions and the urban fabric. The contents of the courses on urban design and, more generally those dealing with regional development, focus on a synthesis between the various elements of the area that must be comprehended and transformed, from those connected to the perceptible form to the physical/environmental elements and including social aspects and economic feasibility. In line with the approach in most European countries, throughout the degree programme, there is laboratory project work, indispensable not only to assess the learning outcomes but also to enhance an integrated training that includes contact and discussion with specialists from the various technological and scientific areas involved in the construction or requalification of constructions or residential structures.

A.2. ADMISSION REQUIREMENTS

This paragraph provides information on the knowledge required for admission to the Study Programme.

This information is not available in English at this time.

A.3. LEARNING OUTCOMES

This paragraph provides information on the knowledge and skills students will have acquired by the end of the Programme.

KNOWLEDGE AND UNDERSTANDING ABILITY:

Graduates will have in-depth knowledge of:

- the historical evolution of architecture, of types of constructions and the construction techniques and materials, which are indispensable for a critical evaluation of works;
- the drafting methods for constructions and the territory;
- the methods and techniques of design, seen as a synthesis between formal, functional and technical-construction aspects in the construction of constructions and residential areas;- the investigative methods for decay and the methods for conservation activities in constructions under restoration;
- the methods and techniques of Construction Science and Techniques and Applied Physics that are necessary for the conception and design of structural components and plants for constructions and residential structures;
- the criteria for construction organisation and production and safety;
- the methods of economic evaluation used in the construction industry;
- the methods and techniques of analysis of the territory and environment;
- the tools for economic and environmental evaluation of construction projects and urban planning at different levels.

The knowledge and understanding abilities listed above are developed through the course units in the subjects of "Mathematics for Architecture", "Physical technology and plant design for Architecture", "History of Architecture", "Drafting of Architecture and Environment", "Architectural and Urban Design", "Theories and Techniques for Architectural Restoration", "Analysis and Structural Design in Architecture", "Urban Design and Regional Planning", "Technology for Architecture and Construction",

"Estimation in Architecture and Town Planning", "Economics, Sociology and Law for Architecture and Town Planning".

The teaching methods used include participation in lectures, practical activities and seminars, supervised and independent home study. Assessment of learning outcomes is mainly by means of tests, written and oral examinations to which a mark is given and examinations or laboratory exercises with a pass/fail mark.

ABILITY TO APPLY KNOWLEDGE AND TO UNDERSTAND:

Graduates will be able to apply knowledge to the resolving of the real problems of work and to identify, formulate and resolve, in a potentially innovative way, problems related to architecture, town planning and structural engineering that require a multidisciplinary approach, especially as regards the integrated design of constructions and the recovery and restoration of the existing built heritage, the planning and design of projects for towns and regions and the protection of the environment and landscape. To this end, the programme includes a curricular internship.

The achievement of the ability to apply knowledge and to understand as set out above is developed through the critical study of set texts for home study, research and application case studies demonstrated by teaching staff, as well as numerical exercises and practical laboratory or computer activities, bibliographical and field research, as well as project work, especially those provided for in the core curriculum course units, and in the preparation of the final dissertation. Assessment is by means of specific tasks (written and oral exams, reports, practical activities, problem-solving) in which students demonstrate mastery of tools, methodologies and judgement skills.

JUDGEMENT SKILLS:

Graduates will be able to identify, formulate and resolve problems regarding design, construction and management of complex projects in this field independently or coordinate activities with public and private organisations.

Judgement skills are developed particularly during practical activities, seminars, and the preparation of written assignments and during the work assigned by the supervising professor in preparation of the final dissertation. Assessment of judgement skills is through the evaluation of students' level maturity demonstrated when examined and in the work in preparation of the final dissertation.

COMMUNICATION SKILLS:

Graduates will be able to work with experts from other areas and technicians at various levels, coordinating staff for the design and construction of complex construction projects, and planning and protection of the territory at various levels. Moreover, they will be able to communicate effectively in Italian and English and draft technical reports and reports combining technical and legislative elements.

These written and oral communication skills are fostered particularly during seminars, practical activities and, in general, during the course units that require the preparation of reports and written assignments and their oral presentation. Communication skills are also developed during the writing of the final dissertation and its discussion. The English test completes the development of the required communication skills.

LEARNING SKILLS:

Graduates will have the training required to continue studies with a PhD programme or second level professional Master's degree; - will have the learning skills necessary to keep up to date on methods, techniques, materials and procedures as required in the constantly changing area of legislation on construction production and urban and environmental planning.

The learning skills listed above are developed in the course units of all the subject areas in the degree programme, especially those that are partly completed independently. The specific teaching methods used include tutorials. Assessment of learning skills forms part of all the exams of the degree programme.

A.4. CAREER OPPORTUNITIES

This paragraph provides information on the occupational profile, functions and fields of employment available to graduates of this Programme.

CONSTRUCTION ENGINEER OR ARCHITECT - FREELANCE OR MEMBER OF A PROFESSIONAL ASSOCIATE FIRM AND/OR AN ENGINEERING FIRM

Main skills performed:

- designing constructions and residential structures and managing construction through all the technical and procedural stages (including relations with clients, suppliers and public administration as required by existing legislation);
- surveying, analysing and evaluating the built heritage and planning its recovery in all the aspects involved, including restoration (architectural, functional, structural and plant design) of constructions and monumental sites, in conformity with the legislative constraints existing in Italy and in other European countries;
- knowledge of the elements of history and context of an area and designing projects for its enhancement and protection;
- participating in interdisciplinary working groups, or coordinating them, to design and implement complex urban projects, using knowledge not only of technical aspects but also of economic feasibility and environmental compatibility;
- managing and coordinating the engineering phases of a project and the technical and administrative procedures necessary for implementation;
- managing construction sites for the construction and infrastructures, and drafting and applying the safety procedures.

CONSTRUCTION ENGINEER OR ARCHITECT WITH A CONSTRUCTION FIRM

Main skills performed:

- managing construction companies and the various departments within them. Designing projects for own firm, implementing them and drafting and applying the safety procedures.

CONSTRUCTION ENGINEER OR ARCHITECT WORKING IN PUBLIC ADMINISTRATION OR PUBLIC ORGANISATIONS

Main skills performed:

- managing departmental offices, possibly in charge of the design, implementation and administrative procedures of construction projects and activities regarding the territory and environment, possibly designing projects and in charge of implementation, or managing construction sites and drafting and applying the safety procedures on behalf of own organisation.

CONSTRUCTION ENGINEER OR ARCHITECT WORKING IN PRODUCTION FIRMS FOR PRODUCTION OF CONSTRUCTION COMPONENTS AND MATERIALS

Main functions performed:

managing construction firms and the various departments within them, designing and experiments on products and organising the production process and sales, and possibly in charge of quality, safety environmental impact of the firm's activities.

Career opportunities:

Freelance, alone or with associates, or as a staff member or consultant with:

- construction companies for constructions and infrastructures;
- manufacturing industries for the design, production and installation of construction components and materials;
- engineering companies;
- real estate companies;
- public organisations and public administration

On passing the state examination graduates qualify as Construction Engineers or Architects for all the professional activities established in the civil/environmental sector of the Association of Chartered Engineers, section A, and of the Architecture sector of the Professional Association of Architects, section A. The degree programme project has been submitted to selected external stakeholders in order to receive their opinions and feedbacks on the learning outcomes and the professional profiles.

A.5. OPINION OF SOCIAL PARTNERS AND POTENTIAL EMPLOYERS

This paragraph describes the outcome of the consultation with the representative employment and trade organisations.

This information is not available in English at this time.

A.6. FURTHER STUDIES

It gives access to thirdcycle studies (PhD/Specialisation schools) and to professional master'sprogrammes.

B. TEACHING AND LEARNING

This section describes the updated course structure diagram (for academic year 2013/2014), with the full titles and listings of the course units and the latest published lecture timetable.

B.1. COURSE STRUCTURE DIAGRAM

The link takes you to the Study Programme course structure diagrams. You can also access to each course unit content.

- [Study plan: all course units in the programme](#)

B.2. CALENDAR AND LECTURE TIMETABLE

The links take you to the teaching calendar (exam session and final examination session) and the lecture timetable (in Italian).

- [Lecture timetable](#)
- [Exam sessions](#)
- [Final examination sessions](#)

C. RESOURCES AND SERVICES

This section provides a list of teaching staff and their relative curricula and and description of the services available to students for the academic year 2013/2014.

C.1. TEACHERS

*The paragraph lists the lecturers who teach in the Study Programme: from here you can access the personal web pages of each one.
Information updated to 28 May 2013 (in Italian).*

Permanent teaching staff:

Agnoletto, Matteo	Donà, Roberto	Gulli, Riccardo	Semprini, Giovanni
Antonucci, Micaela	Erioli, Alessio	Leoni, Giovanni	Tondelli, Simona
Arcozzi, Nicola	Ferretti, Elena	Maglionico, Marco	Trentin, Annalisa
Bartolomei, Cristiana	Franzoni, Elisa	Manfredini, Maria	Valdiserri, Paolo
Bignozzi, Maria	Gaiani, Marco	Mingucci, Roberto	Viola, Erasmo
Bragadin, Marco Alvise	Galli, Claudio	Mochi, Giovanni	Zanetti, Leonardo
Daprà, Irene	Garai, Massimo	Monti, Carlo	
Diotallevi, Pier Paolo	Govoni, Laura	Muracchini, Augusto	
Dondi, Giulio	Guardigli, Luca	Regonati, Francesco	

Contract teaching staff:

[Boiardi, Luca](#)
[Garagnani, Simone](#)
[Moro, Andrea](#)
[Predari, Giorgia](#)
[Sintini, Matteo](#)
[Verondini, Cristiano](#)
[Virgilio, Giovanni](#)

C.2. STUDENT SERVICES: OFFICES

C.2.1. FUTURE STUDENTS

The link take you to the webpage which provides specific information about the offices and the services for the future students (in italian).

- [Future students](#)

C.2.2. ENROLLED STUDENTS

The link take you to the webpage which provides specific information about the offices and the services for the enrolled students (in italian).

- [Enrolled students](#)

C.2.3. INTERNATIONAL STUDENTS

The link take you to the webpage which provides specific information about the offices and the services for the international students (in italian).

- [International students](#)

C.2.4. GRADUATES

- [Graduates](#)

D. THE STUDY PROGRAMME IN FIGURES

Information on students' starting their university careers, how many students are in line with the regular programme, opinions of students and graduates on the teaching programmes and information concerning graduate employment.

This section provides the data of the last academic years for the Study Programme (SP) and a comparison with similar Study Programmes. The University of Bologna has divided its Study Programmes into four groups:

- **BIOMEDICAL** group: Study Programmes of the Schools of Pharmacy, Biotechnology and Sport Science; Medicine; Agriculture and Veterinary Medicine
- **SCIENTIFIC-TECHNOLOGICAL** group: Study Programmes of the Schools of Engineering and Architecture; Sciences
- **SOCIAL SCIENCES** group: Study Programmes of the Schools of Economics, Management, and Statistics; Law, Political Sciences
- **HUMANITIES** group: Study Programmes of the Schools of Arts, Humanities, and Cultural Heritage; Foreign Languages and Literatures, Interpreting and Translation; Psychology and Education

The section presents the results of the Study Programme for the last three academic years.

Main data shows how many students enrolled, the number of students assigned additional learning requirements, how many drop out after the first year, how many graduate in line with the programme schedule, the opinions of attending and graduating students on the teaching programmes and information concerning graduate employment.

The information and data presented in this section, updated to 28 May 2013, were taken from University databases and *AlmaLaurea*.

Study Programmes may be subject to degree programme system modifications from one academic year to the next, and the data provided in this section may refer to a programme with a slightly different system to the one currently running (such as programme title, course structure diagram and list of lecturers). However, indicatively the data presents the general trend of the Study Programme over the past three years.

Most of the Study Programmes running at the University of Bologna have been reformed in compliance with DM 270/04, most of them from the academic year 2008/2009. For this reason for the previous academic years for some information, as opinion of the graduates and employment situation, are provided in the reports of those Programmes, on the paragraph D.5. refers to the Study Programmes as they were presented prior to the reform.

D.1. STUDENTS STARTING THEIR UNIVERSITY CAREERS

Characteristics of incoming students at the beginning of their university careers. Tables and graphs provide information on the number of registered students, focusing on the characteristics of the students, results of any entrance tests and the students assigned any additional learning requirements.

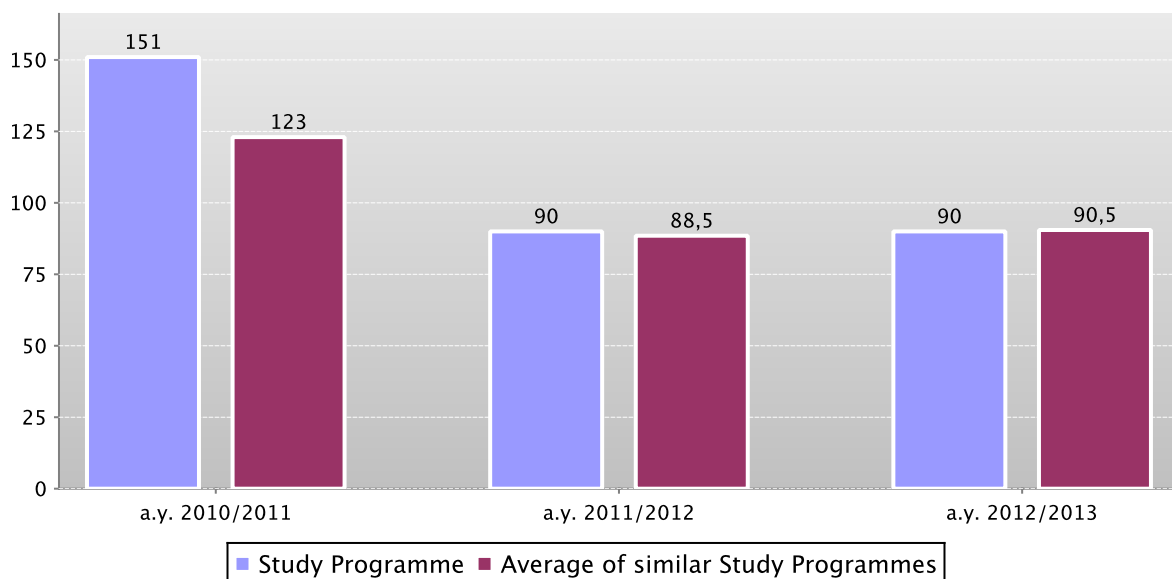
D.1.1. ENROLMENTS AND REGISTRATIONS

The **graph** shows the number of students enrolled in the 1st year compared with the average of similar Study Programmes (which belong to the same group).

In addition, the **table** shows the total number of registered students and the total number of enrolled students.

Data of the Study Programme is compared with the average of the Study Programmes of average of similar Study Programmes (which belong to the same group) for the indicated academic years.

First year enrolments



	a.y. 2010/2011			a.y. 2011/2012			a.y. 2012/2013		
	Registered students	N. first year enrolments	Total N. enrolled students	Registered students	N. first year enrolments	Total N. enrolled students	Registered students	N. first year enrolments	Total N. enrolled students
Study Programme	139	151	444	82	90	517	72	90	593
Average of similar Study Programmes	108,5	123	469,5	76	88,5	440,5	74,5	90,5	415

D.1.2. ADDITIONAL DATA ON STUDENTS' STARTING THEIR UNIVERSITY CAREERS

D.1.2.1. CANDIDATES REGISTERED FOR THE ENTRANCE EXAM

The number of students sitting the [entrance exam](#) for the Study Programme. Concerns the programmes with restricted access. The methods of managing the call for applications and the list of candidates, including the methods for filling any unclaimed places, may vary from year to year.

The **table** shows the number of places available for the study programme, the number of candidates enrolling for the exam, the number sitting the exam and the percentage of students sitting the exam compared to the number of places available.

For all programmes with restricted access, candidates are required to sit an entrance exam and there are a limited number of places available. The entrance exam is a test which is used to draw up a graded list of candidates; students may enrol in the programme according to their place in the list. The methods of managing the call for applications and the list of candidates, including the methods for filling any unclaimed places, may vary from year to year. The test may be specific to a Degree Programme or may be part of a single exam covering several programmes from the same university or from other universities (during the registration the students should indicate their first choice).

The following definitions apply:

Available places = the number of places laid down in the call for applications to the Study Programme, or determined by subsequent legal provisions; these exclude any additional places reserved according to special provisions of the programme (e.g. for international study programmes, they do not include places for foreign students selected from other universities; for all programmes with restricted access regulated nationally, these do not include the places reserved for transferring students).

Number of candidates for the exam = number of students registered for the exam indicating the study programme as their first choice;

Number of participants in the exam = number of students participating in the exam indicating the study programme as their first choice;

Number of participants in the exam for every available place = number of students participating in the exam who indicated the study programme as their first choice as a ratio of the number of places available on the programme.

	Number of places available (a)	Candidates registered for the exam	Candidates sitting the exam (b)	Number of candidates sitting the exam per place available (b/a)
a.y. 2010/2011	168	313	305	1,8
a.y. 2011/2012	100	276	257	2,6
a.y. 2012/2013	100	227	203	2

D.1.2.2. INCOMING STUDENTS

Geographic origin, type of high school certificate, age and gender of students.

Data shows a homogeneous group of students (**cohort**) which started together their academic career.

Students which have **passed** to an other Study Programme, **transferred** from an other university, or registered to a 2nd degree are not included.

The **tables** show the number, geographic origin, gender, age, type and grade of high school certificate of students enrolling in the degree programme.

The Study Programme data is compared with the **average of similar Study Programmes (which belong to the same group)**, for the indicated academic years.

		Registered students	Geographic origin					Gender		Average age of registered students		
			Students coming from the province of the Study Programme site	Students coming from other provinces where Unibo has a site	Students coming from other provinces of Emilia Romagna region	Students coming from other Italian regions	Students coming from abroad	M	F	19 or less	20 - 24	25 or more
Students 2010/2011	Study Programme	139	47,5%	15,8%	16,5%	18,7%	1,4%	47,5%	52,5%	96,4%	2,9%	0,7%
	Average of similar Study Programmes	108,5	45,6%	18,4%	11,1%	23,0%	1,8%	43,8%	56,2%	95,4%	3,2%	1,4%
Students 2011/2012	Study Programme	82	40,2%	15,9%	22,0%	20,7%	1,2%	46,3%	53,7%	87,8%	11,0%	1,2%
	Average of similar Study Programmes	76	40,1%	24,3%	13,2%	21,7%	0,7%	39,5%	60,5%	82,9%	15,8%	1,3%
Students 2012/2013	Study Programme	72	38,9%	12,5%	19,4%	29,2%		36,1%	63,9%	90,3%	9,7%	
	Average of similar Study Programmes	74,5	32,2%	26,8%	10,1%	29,5%	1,3%	39,6%	60,4%	83,9%	15,4%	0,7%

		High school certificate					Grade of High school			
		Vocational schools	Technical Colleges	High school specializing in education and in psycho-pedagogical science	High schools specializing in classical studies, modern languages, science education	Other Italian or foreign high schools	Grade ranging from 60 to 69	Grade ranging from 70 to 79	Grade ranging from 80 to 89	Grade ranging from 90 to 100
Students 2010/2011	Study Programme		13,7%		84,9%	1,4%	9,4%	18,7%	32,4%	38,8%
	Average of similar Study Programmes	0,9%	14,7%		80,6%	3,7%	7,8%	22,6%	32,3%	35,9%
Students 2011/2012	Study Programme		9,8%		89,0%	1,2%	8,5%	11,0%	34,1%	45,1%
	Average of similar Study Programmes	2,0%	15,8%	0,7%	79,6%	2,0%	9,2%	17,8%	32,9%	39,5%
Students 2012/2013	Study Programme		6,9%	1,4%	79,2%	12,5%	4,2%	20,8%	26,4%	36,1%
	Average of similar Study Programmes	4,0%	12,8%	1,3%	70,5%	11,4%	10,7%	22,1%	26,8%	29,5%

D.1.2.3. ADDITIONAL LEARNING REQUIREMENTS

Students on the programme assigned **additional learning requirements** (OFA). OFA are learning requirements assigned to enrolled students who have not demonstrated the full possession of the entrance requirements. The assessment methods of students' initial preparation and the fulfilment of the OFA are described in the Study Programme Regulations, and may change each year. Students not completing the additional learning requirements are obliged to re-enrol in year 1 as repeating students.

The **table** shows the number of **registered students**, the number of students assigned OFA, the number who fulfilled them, the percentage of students assigned OFA compared to the number of enrolled students and the percentage fulfilling the OFA compared to those assigned them.

	Registered students (a)	Students assigned OFA (b)	Students who fulfilled OFA (c)	% of students assigned OFA compared to the number of enrolled students (b/a)	% of students fulfilling the OFA compared to number of students assigned (c/b)
Students 2010/2011	139	0	1	1,2%	100,0%
Students 2011/2012	82	1	1	1,2%	100,0%
Students 2012/2013	72	0			

*Note: At the time of publication of this report the number of students fulfilling the OFA can be measured for a.y. 2009/2010 and a.y. 2010/2011 only.

D.2. REGULARITY OF STUDIES

Insight into the regularity with which the students pass their exams.

Graphs and tables provide information on the number of students who leave the programme after the first year and the number of regular graduates, focusing on the number of credits obtained at the end of the first year, on the exams passed and average grade achieved for each course unit.

D.2.1. STUDENTS LEAVING THE PROGRAMME BETWEEN YEARS 1 AND 2

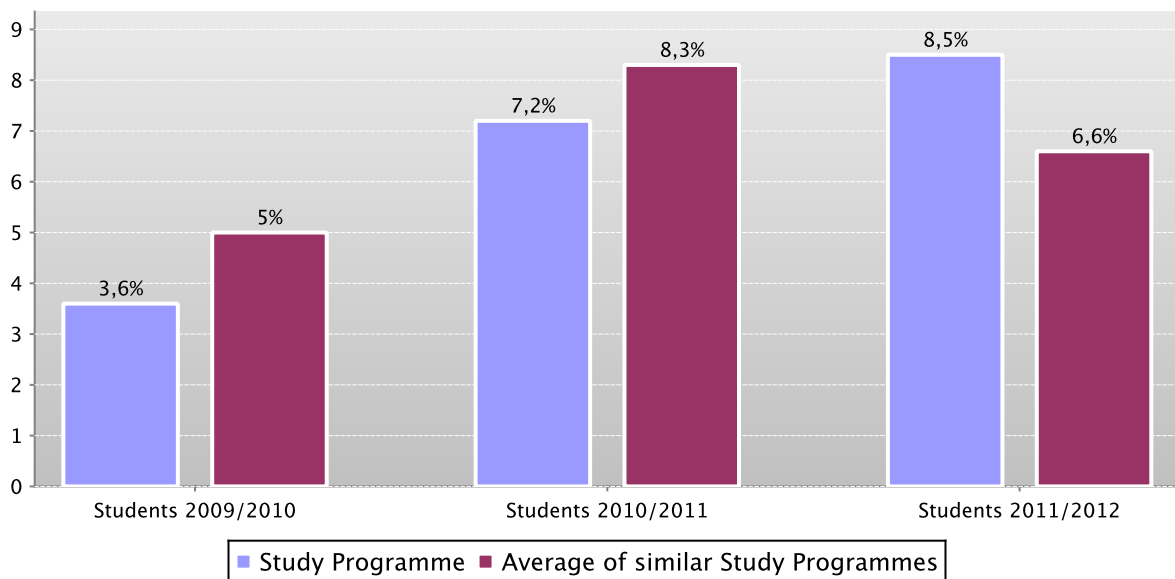
Here the number of students leaving the Study Programme is shown.

The **graph** shows the percentage of students who leave the programme after the first year compared to the average of similar Study Programmes (belonging to the same group).

The **table** shows the registered students, the percentage of students leaving the programme who pass to a different Study Programme in the same university, transfer to another university or withdraw from studies, as well as the enrolled repeating students and those enrolled in the second year.

The Study Programme data is compared with the average of similar Study Programmes (which belong to the same group), for students registered in the indicated academic years.

Percentage of withdrawals between years 1 and 2



		Registered students	% withdrawals	% passages and transfers	% repeating students	Students enrolled in the second year
Students 2009/2010	Study Programme	138	3,6%	4,3%	0,0%	127
	Average of similar Study Programmes	110,5	5,0%	4,5%	0,0%	100
Students 2010/2011	Study Programme	139	7,2%	6,5%	0,0%	120
	Average of similar Study Programmes	108,5	8,3%	5,1%	0,0%	94
Students 2011/2012	Study Programme	82	8,5%	4,9%	0,0%	71
	Average of similar Study Programmes	76	6,6%	5,3%	0,0%	67

D.2.2. REGULAR GRADUATES

The new Study Programme running in compliance with D.M. 270/04 has not produced any graduates yet.

See data of previous academic years – Study Programme D.M. 509/99 Building and Architectural Engineering (code 0067) [paragraph D.5.2.2.](#)

D.2.3. ADDITIONAL DATA ON REGULARITY OF STUDIES

D.2.3.1. CREDITS OBTAINED BY STUDENTS IN THE 1ST YEAR

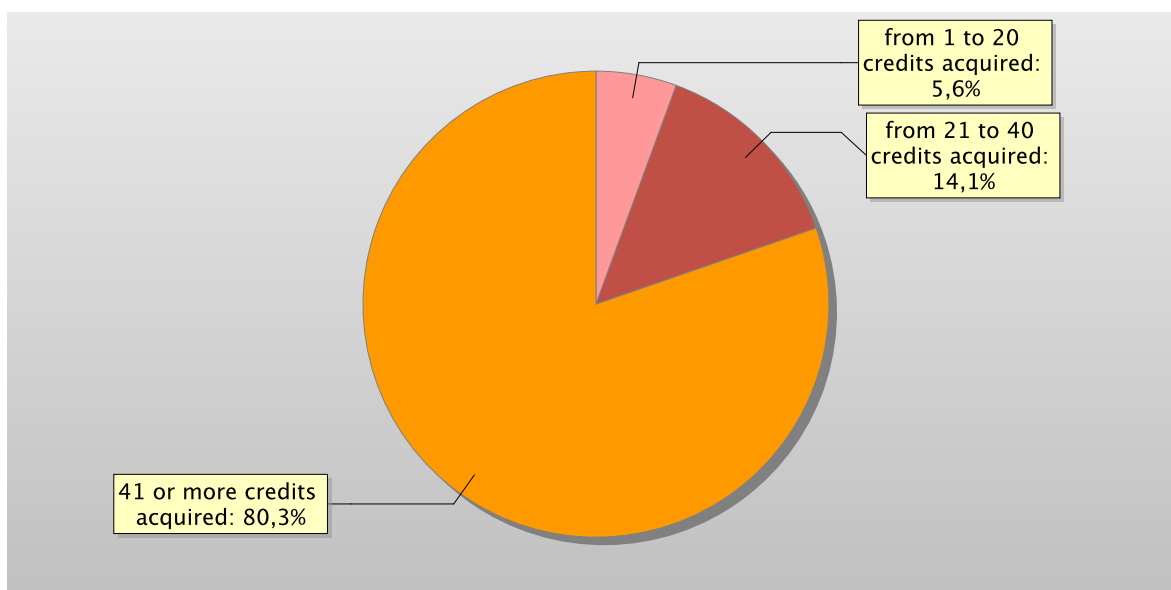
This offers an insight into how regularly students pass their exams.

The **graph** shows the distribution of the students according to the number of **credits** obtained at the end of the first year.

In addition, the **table** shows the number of students registered at the second year and average **credits** obtained during the first year.

The Study Programme data is compared with the **average of similar Study Programmes (which belong to the same group)**, for students registered in the indicated academic years.

Distribution of the students in 2011/2012 according to the number of credits obtained at the end of the first year*



		Students enrolled in the 2nd year	% students with *				Average credits per student
			0 credits acquired	from 1 to 20 credits acquired	from 21 to 40 credits acquired	41 or more credits acquired	
Students 2009/2010	Study Programme	127	0,8%	0,8%	24,4%	74,0%	43,6
	Average of similar Study Programmes	100	1,0%	1,0%	22,0%	76,0%	45,5
Students 2010/2011	Study Programme	120	2,5%	8,3%	23,3%	65,8%	38,7
	Average of similar Study Programmes	94	2,1%	5,3%	22,3%	70,2%	41,9
Students 2011/2012	Study Programme	71		5,6%	14,1%	80,3%	42,2
	Average of similar Study Programmes	67	0,7%	3,7%	11,2%	84,3%	47,9

*Note: by convention, credits are considered to be obtained by students by 31st October of the year following the year of enrolment.

D.2.3.2. EXAMS PASSED AND AVERAGE GRADE

The **table** shows number of exams passed and average grade achieved for each course unit in the calendar year 2011. Marks for the exams passed are expressed out of thirty.

The data refers to the course unit code and therefore includes the various branches of the programme divided into channels or sub-groups, divided by letter.

It considers all subjects for which a grade is assigned, and therefore excludes all those to which a pass/fail score is allocated.

Data of the Study Programme D.M. 270/04 Ingegneria edile - architettura (code 0940)

	N. of exams passed	Average grade *
00413 FISICA GENERALE	24	24,5
00470 GEOMETRIA	89	23,1
00890 SCIENZA DELLE COSTRUZIONI	7	25,4
01016 TECNICA URBANISTICA	1	
01043 TECNOLOGIA DEI MATERIALI E CHIMICA APPLICATA	78	27,5
01069 URBANISTICA	134	28,7
01379 MECCANICA RAZIONALE	80	23,7
02007 GEOTECNICA	63	26,8
02114 ARCHITETTURA TECNICA I	124	27,7
02214 ARCHITETTURA TECNICA II	110	26,2
02429 ESTIMO	88	23,7
03757 STORIA DELL'ARCHITETTURA I	78	27,6
03869 ARCHITETTURA E COMPOSIZIONE ARCHITETTONICA I	90	26,7
03870 ARCHITETTURA E COMPOSIZIONE ARCHITETTONICA II	135	28,1
04757 STORIA DELL'ARCHITETTURA II	115	29,3
09047 TECNICA DELLE COSTRUZIONI	2	
10427 FISICA TECNICA AMBIENTALE	69	22,8
11170 ORGANIZZAZIONE DEL CANTIERE	68	26,3
12240 DISEGNO DELL'ARCHITETTURA I	76	27,8
12789 DISEGNO DELL'ARCHITETTURA II	119	27,8
14490 INFORMATICA GRAFICA	87	26,2
18545 ARCHITETTURA TECNICA III	1	
18547 ARCHITETTURA E COMPOSIZIONE ARCHITETTONICA III	1	
18567 LEGISLAZIONE DELLE OPERE PUBBLICHE E DELL'EDILIZIA, DIRITTO URBANISTICO	87	27,3
18616 LEGISLAZIONE DELLE OPERE PUBBLICHE E DELL'EDILIZIA, DIRITTO URBANISTICO E SOCIOLOGIA C.I.	8	25,4
18617 IDRAULICA E COSTRUZIONI IDRAULICHE URBANE C.I.	81	24,8
27210 ANALISI MATEMATICA 1	74	24,1
27213 ANALISI MATEMATICA 2	86	23,8
29339 ARCHITETTURA TECNICA 1 CON LABORATORIO C.I.	18	26,8
29346 ARCHITETTURA E COMPOSIZIONE ARCHITETTONICA 1 CON LABORATORIO C.I.	8	26,6
29347 DISEGNO DELL'ARCHITETTURA 2 CON LABORATORIO C.I.	5	
29349 SCIENZA DELLE COSTRUZIONI CON LABORATORIO C.I.	6	25,2
29351 STORIA DELL'ARCHITETTURA 1 CON LABORATORIO C.I.	16	25,9
29352 STORIA DELL'ARCHITETTURA 2 CON LABORATORIO C.I.	22	28,2

	N. of exams passed	Average grade *
29353 DISEGNO DELL'ARCHITETTURA 1 CON LABORATORIO C.I.	4	
29359 URBANISTICA CON LABORATORIO C.I.	6	27,8
29366 ARCHITETTURA E COMPOSIZIONE ARCHITETTONICA 2 CON LABORATORIO C.I.	8	27,8

* Note: no average grade is given if the number of exams passed is less than or equal to 5.

See data of Study Programme D.M. 509/99 Building and Architectural Engineering (code 0067), [paragraph D.5.2.3.2.](#)

D.3. OPINIONS OF GRADUATES AND ATTENDING STUDENTS

Opinions of graduates on the Study Programme.

Tables and graphs provide information on the number of graduates who expressed positive opinions on the Study Programme, focusing on opinions expressed by attending students on course units.

D.3.1. OPINION OF GRADUATES

The new Study Programme running in compliance with D.M. 270/04 has not produced any graduates yet.

See data of previous academic years – Study Programme D.M. 509/99 Building and Architectural Engineering (code 0067) [paragraph D.5.3.1.](#)

D.3.2 ADDITIONAL DATA ON OPINIONS OF STUDENTS

D.3.2.1. OPINION OF ATTENDING STUDENTS

The **graph** shows the percentage of attending students who responded positively to the question in the questionnaire: “Are you generally satisfied with this course unit?” in academic year 2011/2012.

The **table** also shows the number of completed questionnaires.

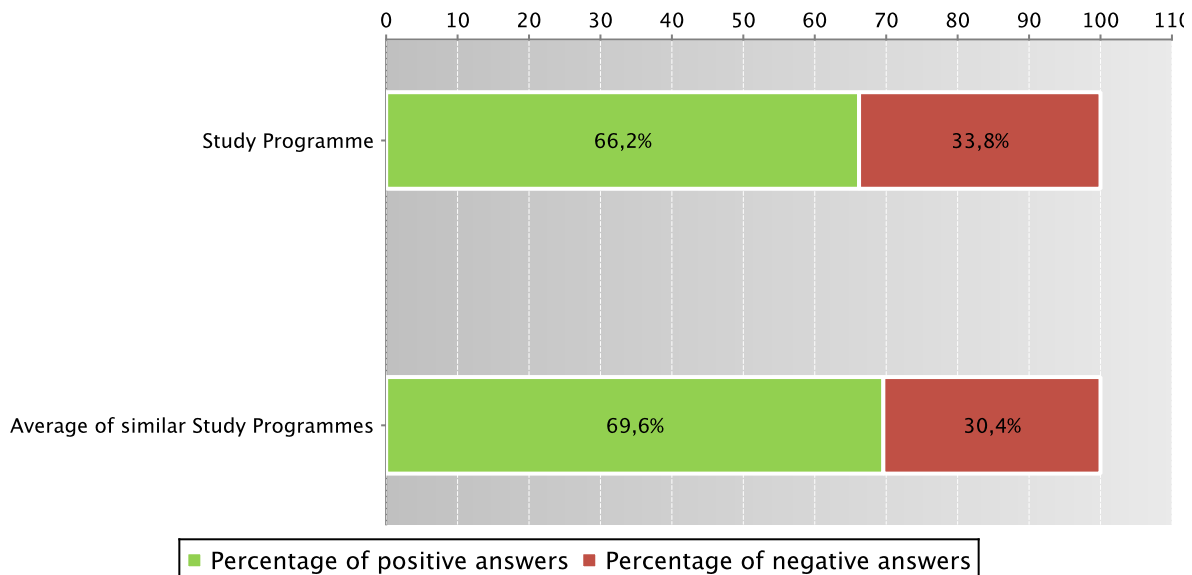
The Study Programme data is compared with the **average of similar Study Programmes (which belong to the same group)**, for the indicated academic years.

The data concerning the students' opinion refers to the opinions of those attending lessons, whether they are enrolled in the current programme or a Study Programme running under pre-reform regulations (under D.M. 509).

For the University of Bologna the survey and subsequently analysis of the attending students opinion is cared by *Aform* - Quality Assurance Department and *Arag* - Support Planning and Evaluation Department. The overall results and the methods of collection and analysis are described in the document published online on the [Statistical Observatory of the University of Bologna](#) (see the note in the glossary).

Students who responded positively to the question: “Are you generally satisfied with this course unit?” in academic year 2011/2012

Data of the Study Programme D.M. 270/04 Ingegneria edile - architettura (code 0940) and of the Study Programme D.M. 509/99 Ingegneria edil (code 0067)



Data of the Study Programme D.M. 270/04 Ingegneria edile - architettura (code 0940) and of the Study Programme D.M. 509/99 Ingegneria edil (code 0067)

		Number of completed questionnaires	% of positive answers concerning the general satisfaction with the course unit – Question 19
a.y. 2009/2010	Study Programme	3444	68,0%
	Average of similar Study Programmes	2628,5	73,0%
a.y. 2010/2011	Study Programme	2506	73,2%
	Average of similar Study Programmes	2192	74,3%
a.y. 2011/2012	Study Programme	2530	66,2%
	Average of similar Study Programmes	2201	69,6%

Symbols:

(*) When there is a small number of questionnaires, the percentage of positive opinions on overall satisfaction is not presented.

Further information on [Rapporto Opinione degli studenti frequentanti sulle attività didattiche](#) (the content is in Italian).

D.4. ENTRY INTO THE WORLD OF WORK

Employment situation of graduates of the Study Programme.

Tables and graphs provide information on the employment situation of graduates one year after graduating.

D.4.1. EMPLOYMENT SITUATION

Data of Employment situation of graduates of Study Programmes reformed in compliance with D.M. 270/04 have not been collected yet.

See data of previous academic years – Study Programme D.M. 509/99 Building and Architectural Engineering (code 0067) [paragraph D.5.4.1.](#)

D.5. INFORMATION ON PRE-REFORM PROGRAMMES (DM 509/99)

D.5.1. STUDENTS STARTING THEIR UNIVERSITY CAREERS

Characteristics of incoming students at the beginning of their university careers. Tables and graphs provide information on the number of registered students, focusing on the characteristics of the students, results of any entrance tests and students assigned additional learning requirements.

D.5.1.1. ENROLMENTS AND REGISTRATIONS

Data of enrolments and registrations of the last three academic years are shown in [paragraph D.1.1.](#)

D.5.1.2. ADDITIONAL DATA ON STUDENTS' STARTING THEIR UNIVERSITY CAREERS

D.5.1.2.1. CANDIDATES REGISTERED FOR THE ENTRANCE EXAM

Data of candidates registered for the entrance exam are shown in [paragraph D.1.2.1.](#)

D.5.1.2.2. INCOMING STUDENTS

Data of incoming students of the last three academic years are shown in [paragraph D.1.2.2.](#)

D.5.2. REGULARITY OF STUDIES

Insight into the regularity with which the students pass their exams.

Graphs and tables provide information on the number of students who leave the programme after the first year and the number of regular graduates, focusing on the number of credits obtained at the end of the first year, the number of exams passed and the average grade achieved for each course unit.

D.5.2.1. STUDENTS LEAVING THE PROGRAMME BETWEEN YEARS 1 AND 2

Data of students leaving the Study Programme of the last three academic years are shown in [paragraph D.2.1.](#)

D.5.2.2. REGULAR GRADUATES

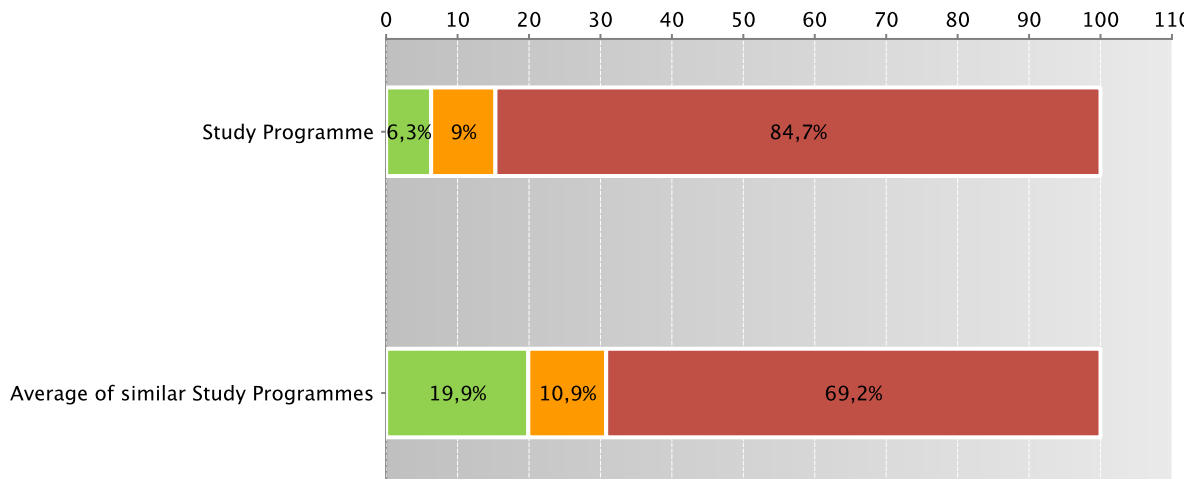
Here you will find information on regular graduates, on how many students, at the end of the regular programme duration, left the programme and how many are still enrolled but not aligned to the exam schedule.

The **graph** and the **table** show the situation concerning **registered students** for the indicated academic year, at the end of the regular duration of the Study Programme, highlighting the percentage of regular graduates, the number of students still enrolled (**not aligned to the exam schedule** and **repeating students**), students who have left the programme (including **passages, transfers and withdrawals**).

The Study Programme data is compared with the average of **similar Study Programmes (which belong to the same group)** for students registered in the indicated academic years.

Situation of students 2007/2008 at the end of regular duration of the study programme

Data of the Study Programme D.M. 509/99 Building and Architectural Engineering (code 0067)



■ Graduates aligned with the exam schedule ■ Passages transfers and withdrawals
 ■ Students still enrolled and not yet graduated

Data of the Study Programme D.M. 509/99 Building and Architectural Engineering (code 0067)

		Regular graduates		Passages transfers and withdrawals		Students still enrolled and not yet graduated		
		N.	%	N.	%	N.	%	
Students 2005/2006	Study Programme	137	6	4,4%	19	13,9%	112	81,8%
	Average of similar Study Programmes	111	19	17,1%	17	15,3%	75	67,6%
Students 2006/2007	Study Programme	145	4	2,8%	21	14,5%	120	82,8%
	Average of similar Study Programmes	112	21,5	19,2%	17	15,2%	73,5	65,6%
Students 2007/2008	Study Programme	144	9	6,3%	13	9,0%	122	84,7%
	Average of similar Study Programmes	110,5	22	19,9%	12	10,9%	76,5	69,2%

Go back to [D.2.2. Regular graduates](#)

D.5.2.3. ADDITIONAL DATA ON REGULARITY OF STUDIES**D.5.2.3.1. CREDITS OBTAINED BY STUDENTS IN THE 1ST YEAR**

Data of credits obtained by students in the 1st year of the last three academic years are shown in paragraph D.2.3.1.

D.5.2.3.2. EXAMS PASSED AND AVERAGE GRADE

The **table** shows number of exams passed and average grade achieved for each course unit in the calendar year 2011. Marks for the exams passed are expressed out of thirty.

The data refers to the course unit code and therefore includes the various branches of the programme divided into channels or sub-groups, divided by letter.

It considers all subjects for which a grade is assigned, and therefore excludes all those to which a pass/fail score is allocated.

Data of the Study Programme D.M. 509/99 Ingegneria edil (code 0067)

	N. of exams passed	Average grade *
00015 ANALISI MATEMATICA I	2	
00413 FISICA GENERALE	40	23,3
00470 GEOMETRIA	7	23,1
00890 SCIENZA DELLE COSTRUZIONI	42	22,2
01016 TECNICA URBANISTICA	137	27,1
01043 TECNOLOGIA DEI MATERIALI E CHIMICA APPLICATA	48	26
01069 URBANISTICA	5	
01354 ANALISI MATEMATICA II	2	
01379 MECCANICA RAZIONALE	19	21,8
02007 GEOTECNICA	79	26,3
02114 ARCHITETTURA TECNICA I	5	
02214 ARCHITETTURA TECNICA II	32	25,5
02429 ESTIMO	40	23,1
03757 STORIA DELL'ARCHITETTURA I	2	
03869 ARCHITETTURA E COMPOSIZIONE ARCHITETTONICA I	2	
03870 ARCHITETTURA E COMPOSIZIONE ARCHITETTONICA II	9	26,6
04757 STORIA DELL'ARCHITETTURA II	35	28
08078 PROGETTAZIONE URBANISTICA	12	28,8
09047 TECNICA DELLE COSTRUZIONI	125	23
09362 RESTAURO ARCHITETTONICO	169	27,6
10427 FISICA TECNICA AMBIENTALE	46	23,6
11170 ORGANIZZAZIONE DEL CANTIERE	97	26
11375 RECUPERO E CONSERVAZIONE DEGLI EDIFICI	45	28,5
11704 COSTRUZIONI IN ZONA SISMICA	9	26,9
11708 IMPIANTI TECNICI	35	28,4
12789 DISEGNO DELL'ARCHITETTURA II	8	27,3
14490 INFORMATICA GRAFICA	14	25,6
18545 ARCHITETTURA TECNICA III	39	29,4
18546 ARCHITETTURA E COMPOSIZIONE ARCHITETTONICA IV	7	26,9
18547 ARCHITETTURA E COMPOSIZIONE ARCHITETTONICA III	180	27

	N. of exams passed	Average grade *
18564 CHIMICA E TECNOLOGIA DEL RESTAURO E DELLA CONSERVAZIONE DEI MATERIALI	17	29,3
18565 ARCHITETTURA TECNICA E TIPOLOGIE EDILIZIE	61	29,1
18616 LEGISLAZIONE DELLE OPERE PUBBLICHE E DELL'EDILIZIA, DIRITTO URBANISTICO E SOCIOLOGIA C.I.	2	
18617 IDRAULICA E COSTRUZIONI IDRAULICHE URBANE C.I.	24	22,9
18620 STAGES E TIROCINI	124	29
32730 MODELLAZIONE VIRTUALE PER L'ARCHITETTURA	1	
35627 CALCOLO AUTOMATICO DELLE STRUTTURE CON LABORATORIO C.I.	10	29,3
50944 COSTRUZIONI DI STRADE, FERROVIE ED AEROPORTI	19	27,7

*Note: no average grade is given if the number of exams passed is less than or equal to 5.

Go back to [D.2.3.2. Exams passed and average grade](#)

D.5.3. OPINIONS OF ATTENDING STUDENTS AND GRADUATES

Opinions of graduates on the Study Programme.

Tables and graphs provide information on the number of graduates who expressed positive opinions on the Study Programme, focusing on opinions expressed by attending students on course units.

D.5.3.1. OPINION OF GRADUATES

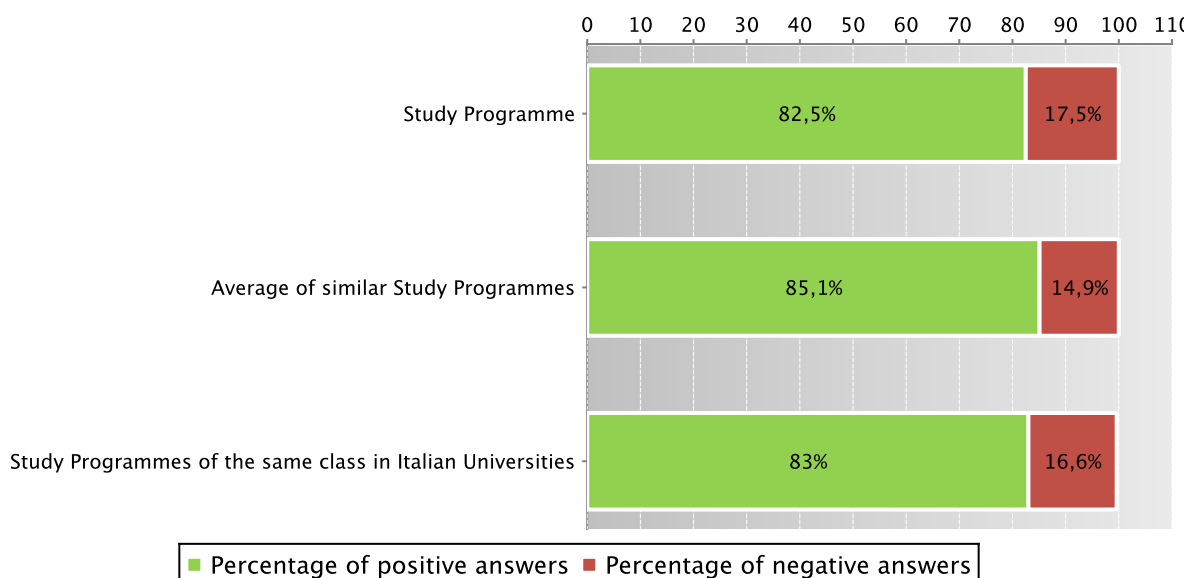
The **graph** shows the percentage of graduates (AlmaLaurea survey) who responded positively to the question: “**Are you generally satisfied with the Study Programme**”.

In addition, the **table** shows the percentage of students who answered “Yes, to the same programme at the university” to the question “Would you register again to the university?”.

The Study Programme data is compared with the **average of similar Study Programmes (which belong to the same group)**, for the indicated years.

Graduates in 2012 who responded positively to the question: “Are you generally satisfied with this Study Programme?”

Data of the Study Programme D.M. 509/99 Ingegneria edil (code 0067)



Data of the Study Programme D.M. 509/99 Ingegneria edil (code 0067)

		N. graduates	Completed Questionnaires	% of positive answers to the question: "Are you generally satisfied with this Study Programme?"	% of answers "yes to the same Programme in the same University" to the question "Would you register again to the University"
2010	Study Programme	108	105	81,9%	61,0%
	Average of similar Study Programmes	101,5	99,5	87,9%	68,3%
	Study Programmes of the same class in Italian Universities	3814	3545	84,1%	66,6%
2011	Study Programme	139	136	80,9%	64,7%
	Average of similar Study Programmes	120,5	117,5	88,5%	73,2%
	Study Programmes of the same class in Italian Universities	4395	4194	83,9%	64,9%
2012	Study Programme	116	114	82,5%	56,1%
	Average of similar Study Programmes	99	97,5	85,1%	61,5%
	Study Programmes of the same class in Italian Universities	3853	3633	83,0%	59,6%

Symbols:

(*) The opinions of the Study Programmes with less than 5 graduates are not shown.

Further information on [Graduates' Profile Report](#).

Go back to [D.3.1. Opinion of graduates](#)

D.5.3.2 ADDITIONAL DATA ON OPINIONS OF STUDENTS

D.5.3.2.1. OPINION OF ATTENDING STUDENTS

Data of opinion of attending students of the last three academic years are shown in paragraph [D.3.2.1](#).

D.5.4. ENTRY INTO THE WORLD OF WORK

Employment situation of graduates of the Study Programme.

Tables and graphs provide information on the employment situation of graduates one year after graduating.

D.5.4.1. EMPLOYMENT SITUATION

The paragraph shows the employment situation of graduates one year after graduating.

The data is taken from the [AlmaLaurea](#) reports on the employment situation of graduates.

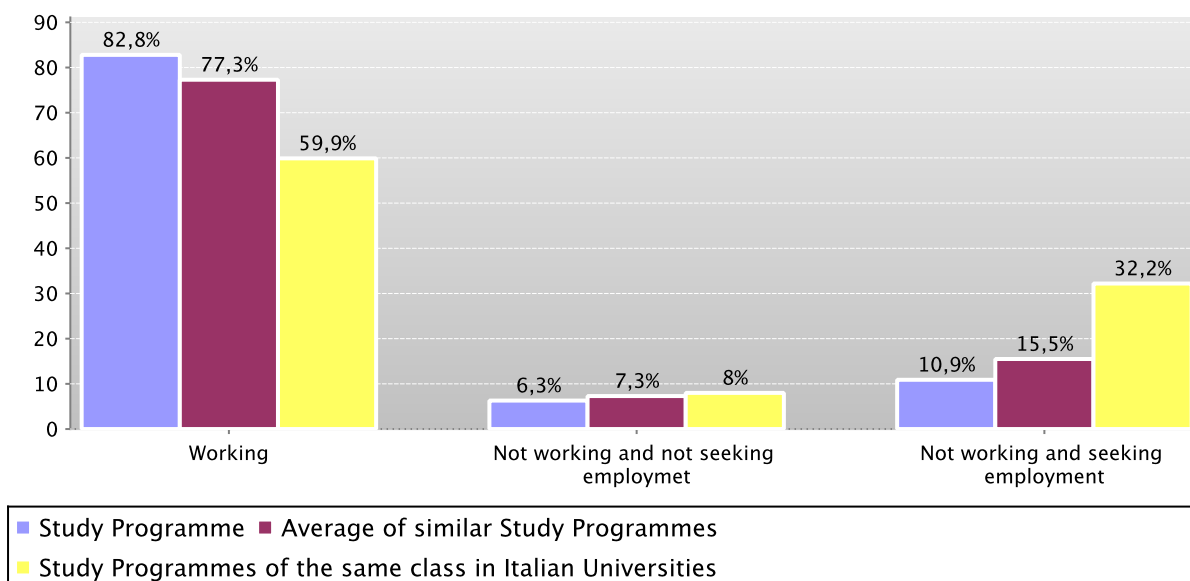
The **graph** shows who is working, who is not working and is not seeking employment, who is not working but is seeking employment.

In addition, the **table** shows the number of graduates interviewed, the number involved in internships and traineeships and the appropriateness of their degree to the job.

The Study Programme data is compared with the [average of similar Study Programmes \(which belong to the same group\)](#) and the average of Study Programmes of the same [class](#) of other Italian universities for the graduates of the indicated years.

Employment situation of graduates in 2011 one year after graduating

Data of the Study Programme D.M. 509/99 Building and Architectural Engineering (code 0067)



Data of the Study Programme D.M. 509/99 Building and Architectural Engineering (code 0067)

		N. graduates interviewed	Employment situation (1)			Not working, not seeking employment, but following a university programme/traineeship (2)	Degree's appropriateness for the job (referred to the graduates who just work) (3)	
			Working	Not working and not seeking employment	Not working and seeking employment		Effective / very effective	Quite effective
Graduation Year 2009	Study Programme	102	81,4%	5,9%	12,7%	2,0%	82,9%	12,2%
	Average of similar Study Programmes	81,5	77,9%	6,1%	16,0%	1,8%	78,4%	14,4%
	Study Programmes of the same class in Italian Universities	2783	64,9%	9,6%	25,5%	4,0%	72,6%	20,6%
Graduation Year 2010	Study Programme	101	75,2%	5,9%	18,8%	5,0%	73,3%	16,0%
	Average of similar Study Programmes	94	75,5%	6,4%	18,1%	4,3%	71,4%	18,6%
	Study Programmes of the same class in Italian Universities	3434	61,2%	8,9%	29,9%	3,3%	72,7%	19,6%
Graduation Year 2011	Study Programme	128	82,8%	6,3%	10,9%	3,1%	76,2%	15,2%
	Average of similar Study Programmes	110	77,3%	7,3%	15,5%	2,7%	75,4%	16,2%
	Study Programmes of the same class in Italian Universities	3851	59,9%	8,0%	32,2%	2,9%	67,7%	20,8%

Symbols:

(*) The opinions of the Study Programmes with less than 5 graduates are not shown.

Notes on the AlmaLaurea report on the employment situation of graduates

(1) "Employment situation": the definition includes the number of employed graduates who declaring to carry out a paid work activity, provided that is not training activity (internship, traineeship, PhD degrees, specialization schools).

(2) "Number of those who do not work, who are not seeking employment but who are following a university programme/traineeship": the definition includes those who are enrolled in traineeships, PhD degrees, specialisation schools, Italian "master universitari"(first and second level). The presentation of this data complies with article 2 of D.M. 544 of 31st October 2007, as later provided for in Management Decree no. 61 of 10th June 2008 (transparency requirements).

(3) The evaluation of the appropriateness of the degree is obtained by a combination of the requirement of the relative qualification for the job held and the level of usage of the skills learned at university.

Further information on [Graduates' Employment report](#).

Go back to [D.4.1. Employment situation](#)

E. FIND OUT MORE: THE QUALITY OF YOUR STUDY PROGRAMME

The University of Bologna has identified its objectives as the *personal, cultural and professional growth of students and the improvement of the quality of learning, also in relation to the needs of society* (Strategic Plan 2010-2013).

Students, employers and society as a whole, have the right to effective learning for individual and intellectual growth, to develop critical sense and to prepare for the world of work.

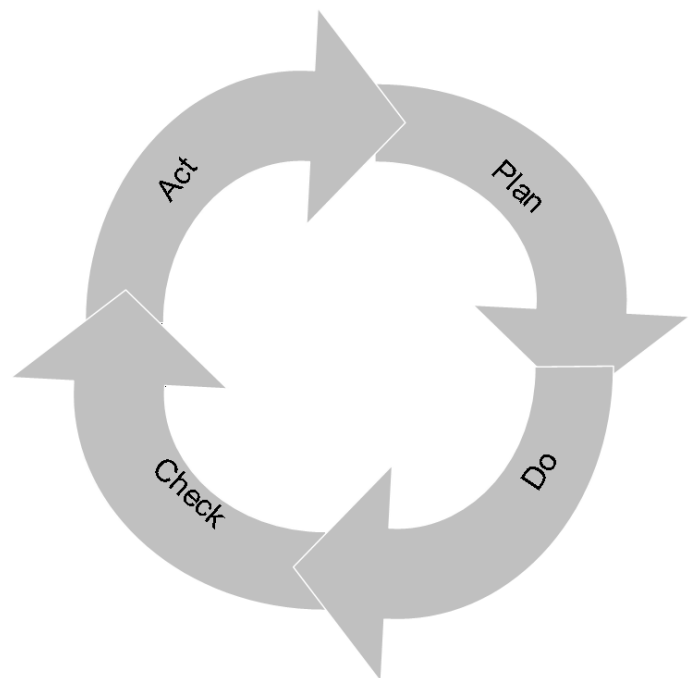
In the Statute and the Strategic Plan 2010-2013 the University of Bologna acknowledges its responsibility in guaranteeing the quality of its study programmes, and for this purpose adopts an "internal quality assurance system".

The Internal Quality Assurance system

The internal quality assurance system is a set of processes and responsibilities adopted to guarantee the quality of Study Programmes at the University of Bologna.

The guarantee of the quality of a Study Programme is the correspondence of the results achieved with the set objectives, in the following phases:

- Plan: defining the objectives
- Do: implementing the planned actions
- Check: checking that the objectives have been achieved
- Act: planning improvement action



This path responds to the expectations of students, guides teaching behaviour and provides indicators for the assessment of results. Self-assessment is based on the analysis of significant data (for example, the number of students graduating in line with the exam schedule, students' opinions and the employment rates of graduates) and highlights strengths and weaknesses in order to reflect on the achieved results, critically consider one's own working methods and take steps for the continual improvement of the Programme. This path involves all educational stakeholders, including students, in order to make use of the contributions of everyone with first-hand knowledge of the Study Programme. Improvement is therefore a day to day development, concerning all aspects of teaching: from the lesson timetable to the publication of on-line programmes, from classroom management to exam methods, and the actual design of the Programme.

This is what happens in each phase:

- **Planning:** the Study Programme is the result of a proposal from the teaching structures and approved by the Academic Bodies.
- **Management:** Schools, Departments and Study Programmes manage the activities required to ensure teaching. The activities are organised as follows:

What we do	Who does what				
	Professors	Study Programme	Schools	Departments	General Administration
Teaching calendar, lessons programme and exam schedules			x		
Management of financial resources			x	x	
Classroom teaching	x				
Management of classrooms and laboratories			x	x	
Libraries and study rooms			x	x	
Approval of individual study plans		x			
Communication and information		x	x		Academic Affairs Division
Guidance service		x	x		Academic Affairs Division
Internships		x	x		Academic Affairs Division
Administrative services: Student Administration Office					Academic Affairs Division
Administration services: Degree programme office			x		Academic Affairs Division
Study grants and loans ad honorem					Academic Affairs Division
Student mobility: university subsidies and programmes					International Relations Division
Mobility: study grants for dissertations abroad			x		
Mobility: authorisations and recognitions		x			
Other students support services		x	x		x

- Internal assessment:** every Study Programme periodically assesses its own results, evaluating, for example, the number of enrolled students, the number of withdrawing students, student opinions etc.; in this way, the strengths and weaknesses, as well as any implemented improvement actions, are highlighted. This phase is organised as follows:

What we do

Definition, gathering and publication of evaluation data

According to the general guidelines of the University and national and international standards, are defined the tools through which should be evaluated the results (indicators). The survey data to be evaluate are published every year on the Report of the Study Program.

Who does what

Academic Bodies

Self-Assessment

The Schools and Study Programmes assess the effectiveness of the previously adopted solutions, analyse the progress of their learning activities and draw up proposals for improvement.

Schools and Study Programmes

Internal audit

The results of the self-assessment process are reviewed in the following phases:

- **Analysis:** the University Quality Manager analyses the review documents, considering the ability to identify problems, propose solutions and the overall development of the internal quality assurance system.
- **Review:** The observations on the results obtained and the good practices adopted are examined together with the persons in charge of the Schools and Study Programmes in meetings organised by scientific-disciplinary field. The persons in charge receive the observations and inputs on the areas for development and the actions to be adopted in future to improve results.
- **Sharing:** the conclusions of the review activities are submitted to the Academic Bodies and the University Evaluation Board.

Quality Manager

Vice Rector for Teaching and Education

Academic Bodies

-
- **Improvement:** on the basis of the results of the internal audit, the Schools and Study Programmes plan improvement activities, to ensure that the Study Programmes increasingly respond to the needs of society. The cycle then starts over again, with the definition of actions to be implemented, the results of which are in turn verified, in a continuous path that guarantees the quality of education.

F. GLOSSARY TERMS

Additional Learning Requirements

Students enrolling in the first year of a first cycle or single cycle degree and who, following the results of the entrance exams established for each study programme, do not possess the knowledge required for access to the programme, are assigned additional learning requirements (OFA).

The OFA are fulfilled by passing an assessment test defined by the programme.

The non-fulfilment of the requirements by the date set by the Academic Bodies and published on the University Portal will lead to the re-enrolment in the first year of the programme.

AlmaLaurea

AlmaLaurea is an innovative in-line database service of graduates' curriculum vitae (1,620,000 CVs, from 53 Italian universities as of 05/07/2012), which offers a link between graduates, universities and businesses.

Created in 1994 on the initiative of the Statistical Observatory of the University of Bologna, managed by a consortium of Italian universities with the support of the Ministry of Education, University and Research, the purpose AlmaLaurea is to act as a point of contact between businesses and graduates, a reference within universities for anyone (students, businesses, etc...) working in the field of university studies, employment and the condition of young people at different levels.

Average of similar study programmes (belonging to the same group)

Average of the Study Programmes (which belong to the subject group)

Calculated average which refers to all study programmes of the same cycle which belong to the subject group.

There are four groups, composed as follows:

- **BIOMEDICAL** group: Study Programmes of the Schools of Pharmacy, Biotechnology and Sport Science; Medicine; Agriculture and Veterinary Medicine
- **SCIENTIFIC-TECHNOLOGICAL** group: Study Programmes of the Schools of Engineering and Architecture; Sciences
- **SOCIAL SCIENCES** group: Study Programmes of the Schools of Economics, Management, and Statistics; Law, Political Sciences
- **HUMANITIES** group: Study Programmes of the Schools of Arts, Humanities, and Cultural Heritage; Foreign Languages and Literatures, Interpreting and Translation; Psychology and Education

CFU University Learning Credits

University Learning Credits (CFU) were introduced under Italian Ministerial Decree no. 509/99 to comply with European legislation, and are a measurement of the volume of learning, including individual study, required of students; generally 1 CFU corresponds to 25 hours of a student's "overall learning effort".

Class

Degree classes group together study programmes of the same level and with the same key learning outcomes and available learning activities for a given number of credits and in sectors which are identified as indispensable. The features of the classes are set nationally, by Ministerial Decree, and are therefore common to all universities.

Cohort

Cohort refers to a group of students enrolled in the same academic year.

Enrolment status

In terms of enrolment, students may be:

- **Regularly enrolled:** students enrolled for as many or fewer years than the legal duration of the study programme, who do not fall into any of the following categories;
- **Not aligned with the exam schedule:** students who, without having graduated, have enrolled in all the years of the study programme and which, for programmes with compulsory attendance, have obtained all attendance certificates;
- **Repeating:** students re-enrolling in the same year of a programme again. Starting from academic year 2009-2010, students who have not fulfilled the assigned additional learning requirements within the deadline have to enrol in the 1st year as repeating students.

Entrance exam

Enrolment in a study programme may be free access or restricted access.

For all programmes with restricted access, candidates are required to sit an entrance exam and there are a limited number of places available. The entrance exam is a test which is used to draw up a graded list of candidates; students may enrol in the programme according to their place in the list. The methods of managing the call for applications and the list of candidates, including the methods for filling any unclaimed places, may vary from year to year. The test may be specific to a Degree Programme or may be part of a single exam covering several programmes from the same university or from other universities (during the registration the students should indicate their first choice).

The following definitions apply:

Available places = the number of places laid down in the call for applications to the Study Programme, or determined by subsequent legal provisions; these exclude any additional places reserved according to special provisions of the programme (e.g. for international study programmes, they do not include places for foreign students selected from other universities; for all programmes with restricted access regulated nationally, these do not include the places reserved for transferring students).

Number of candidates for the exam = number of students registered for the exam indicating the study programme as their first choice;

Number of participants in the exam = number of students participating in the exam indicating the study programme as their first choice;

Number of participants in the exam for every available place = number of students participating in the exam who indicated the study programme as their first choice as a ratio of the number of places available on the programme.

First year enrolments

This includes all students enrolled in the first year, including those joining the study programme in its first year through transferrals, as well as those enrolled in the first year but not for the first time (e.g. repeating students).

New Careers

Students who start a new university career (excluding transfers) from year one in a second cycle programme.

Passages and transfers

Passage: when a student applies to move to a different study programme from the one enrolled in the previous year, within the same university.

Transfer: when a student transfers from a study programme in one university to any programme in another university.

Registered students

Students who begin a career in the Italian University System for the first time and who enrol in the first year (i.e. for whom no previous university careers are recorded) of a First Cycle (L509, L) or Single Cycle programme (LSCU, LMCU)

Statistical Observatory of the University of Bologna

The Statistical Observatory was founded in 1997 in order to “provide the university governing bodies with a reliable and timely documentary and monitoring database aiming to promote decision-making processes and planning, particularly of learning activities and other services targeting the student population” (art.1 of the Founding and Operational Regulation). Following the disabling of the Statistical Observatory, as resolved by the Board of Governors on 14 December 2010, from the second semester of academic year 2010-11 the survey and subsequently analysis of the attending students opinion is cared for the University of Bologna by Academic Affairs Division - Quality Assurance Department and Control and Finance Division - Support Planning and Evaluation Department. The overall results and the methods of collection and analysis are described in the document published online on the [Statistical Observatory of the University of Bologna](#).

University DataWarehouse

Information service for the managers of the University of Bologna organisational departments which gathers, integrates and reorganises data from various sources and makes it available for analysis and evaluation for the purposes of planning and decision-making.

Withdrawal

Suspension of studies by students who do not register in the next academic year, or who drop out from the degree programme.