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School of Engineering and Architecture  
LAUREA (FIRST CYCLE DEGREE/  
BACHELOR - 180 ECTS) IN  
ENGINEERING MANAGEMENT  
A.Y. 2013/2014  
Programme Director Prof. Alessandro Grandi

REPORT

Study Programme Report  
Engineering Management  
Programme ex D.M. 270/04 - Code 0925 - Class L-9  
School of Engineering and Architecture  
Programme Director Prof. Alessandro Grandi

Created in collaboration with Teaching and Learning Administrative Area (AFORM – Area della Formazione) – Quality Assurance Unit

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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 degree programme in Engineering Management aims specifically to form professionals qualified to hold managerial and organisational positions for which knowledge of technology is required, related especially to the analysis and management of production processes and logistics and corporate business processes.

The professional role of Engineering managers includes functions that require specific skills that enable them to tackle problems related to technological constraints and opportunities while using their economic and business skills, especially in cases where it is necessary to make optimum use of physical, financial and human resources and ensure the quality and safety of products and processes, and to analyse problems connected to environmental impacts and constraints or examine the validity of adopting new technologies and evaluating organisational and competitive dimensions.

The functions that graduates in Engineering management must be able to perform, thus demonstrating their distinct skills as compared to other graduates, are: the management of production and logistic structures which are based on technology, both as regards physical and organisational components; the management of operating, administrative, technical and commercial processes and the information flow related to them.

Consequently, the degree programme in Engineering Management aims to provide undergraduates with: basic knowledge of problems related to business management in the main areas of work, knowledge of the organisation and functioning of different types of production and logistic systems, and fundamental knowledge of industrial technologies and the economic and organisational aspects connected to them; knowledge and skills in modelling of production, logistic, administrative and technical and commercial processes and the identification and measurement of performance, of planning and implementation of improvements; knowledge regarding information and communication technology as used in business processes.

### 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 adequate knowledge of the methods and practice of mathematics, the basic sciences, industrial technologies and will be able to use this knowledge to interpret and describe problems of medium difficulty in the area of Engineering Management both in services and industry.
- will have the necessary learning skills to keep up to date on the methods, techniques and tools of Engineering Management both as regards industrial technologies applied to business processes and as regards economic and organisational aspects, as well as to undertake further studies with the required level of independence.

The knowledge and understanding abilities listed above are developed through the course units organised in the subject areas of “Mathematics, Computer Science and Statistics”, “Physics and Chemistry”, “Engineering Management”, “Mechanical Engineering”, “Automation Engineering” “Industrial Safety and Protection Engineering”.

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 and laboratory exercises with a pass/fail mark.

#### ABILITY TO APPLY KNOWLEDGE AND TO UNDERSTAND:

Graduates:

- will use knowledge and ability for a professional approach to work and will have the skills necessary for conceiving and defending solutions and resolving problems specific to the area of Engineering management;
- will have knowledge of the organisation and management of production and logistic systems as regards technological, organisational and economic components and will be capable of systemic analysis.

- will have knowledge and skills for the identification and use of appropriate tools of analysis of economic and organisational matrix for problems and situations of medium complexity, paying particular attention to cases in which it is necessary to integrate and optimize the use of physical, financial and human resources;
- will be able to critically apply the best methodologies for determining the performance of technological systems that support the main business processes.

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 paper. Assessment is by means of specific tasks (written and oral exams, reports, practical activities, problem-solving) in which students demonstrate command over tools, methodologies and judgement skills.

#### JUDGEMENT SKILLS:

Graduates:

- will be able to identify, formulate and resolve problems of medium difficulty connected to the management of production and logistic, technical and commercial and administrative processes.
- will be able to gather, integrate and interpret data and information of a technical nature sufficient for understanding and forming a personal opinion on the importance and business significance;
- will be able to keep up to date on methods, techniques and tools in the area of engineering management, both as regards industrial technologies and ICT applied to business processes and as regards economic and organisational aspects.

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 paper. Assessment of judgement skills is through evaluation of students' maturity demonstrated in examinations and during the work in preparation of the final paper.

#### COMMUNICATION SKILLS:

Graduates will be able to communicate data, information, problems and solutions effectively, both orally and in writing, not only in Italian but also in English (level B1) to a specialist and non-specialist audience.

These written and oral communication skills are developed particularly during seminars, practical activities and in general, during the course units that require the preparation of reports and written assignments and their subsequent oral presentation. The communication skills listed above are also developed in preparation of the final paper. The English test completes the development of these communication skills.

#### LEARNING SKILLS:

Graduates will have developed learning skills to a level where they are able to keep up to date on methods, techniques and tools oriented to Engineering Management in the different sectors where these professionals are required, and specifically in the provision and management of materials, the organisation and management of production, the organisation and automation of production and logistic systems, in the analysis of business, control and management processes and in the technical and commercial department, as well as to undertake further studies (e.g. Second cycle degree programmes, preferably in Engineering management, or a Level I professional Master's degree) with considerable independence.

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.*

### ENGINEERING MANAGER RESPONSIBLE FOR PRODUCTION AND LOGISTICS

Main functions:

As manager responsible for production and logistics, managing or working with the management staff of production and logistic structures of a technological nature, coordinating the technical and organisational components

### ENGINEERING MANAGER RESPONSIBLE FOR PROVISION AND MANAGEMENT OF MATERIALS

Main functions:

Managing or working with management staff, managing provision of materials, components and systems.

### ENGINEERING MANAGER RESPONSIBLE FOR GOVERNANCE CONTROL

Main functions:

Within the area of governance control, managing or working with management staff on cost analysis, planning and economic governance and investment analysis.

### ENGINEERING MANAGER RESPONSIBLE FOR QUALITY

Main functions:

Managing or working with management staff on ensuring quality and the processes of certification related to it.

#### ENGINEERING MANAGER RESPONSIBLE FOR PROJECT MANAGEMENT

Main functions:

Managing or working with management staff on project management of a technological nature in the areas of industry and services.

#### ENGINEERING MANAGER RESPONSIBLE FOR BUSINESS PROCESSES

Main functions:

Managing or working with management staff on activities of analysis, planning and maintenance of organisational and computer systems used in corporate business processes.

#### ENGINEERING MANAGER RESPONSIBLE FOR TECHNICAL AND COMMERCIAL AREA

Main functions:

Managing or working with management staff on marketing and sales of high-technology or industrial products.

Career opportunities:

The main career opportunities include the industrial manufacturing and transformation sectors, traditional service industries (transport, distribution, management of the territory, etc.), advanced service sectors of high added value (corporate consultancy, informatics, telecommunications etc.) and in Local Government.

In general the work will involve provision and management of materials, business organisation of production and logistics, management and automation of business processes and information flows, project management and governance control, analysis of industrial sectors and evaluation of investments.

In particular, graduates in Engineering Management are destined to work in the areas of provision and management of materials, organisation and management of production, automation of production and logistic systems, analysis of business processes and governance control and technical and commercial departments.

As regards the ISTAT - Italian Central Statistics Office - classification of professions, partial recognition of this professional role is mentioned in paragraph 2.2.1.9.2 – Industrial and management engineers – which defines a Professional Unit including profiles that “conduct research or apply existing knowledge to industrial production processes, including human resources, quality control, industrial logistics, cost analysis and coordination of production. They supervise and manage such activities”. As regards other areas in which Engineering managers may work, connected to the technical and commercial area, to some extent they can be found in the sectors between paragraphs 2.5.1.1 and 2.5.1.2, which refer respectively to Specialists in governance and control in Public Administration and in private firms. 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 second cycle studies (Master's degrees) and to professional master's programmes.



## 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 a 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:**

<a href="#">Bianchi, Michele</a>	<a href="#">Gimigliano, Alessandro</a>	<a href="#">Mura, Matteo</a>	<a href="#">Rinaldi, Paola</a>
<a href="#">Biserni, Cesare</a>	<a href="#">Gnani, Elena</a>	<a href="#">Nibbi, Roberta</a>	<a href="#">Romagnoli, Alessandro</a>
<a href="#">Cavina, Nicolò</a>	<a href="#">Grandi, Alessandro</a>	<a href="#">Pareschi, Arrigo</a>	<a href="#">Tomesani, Luca</a>
<a href="#">Colonna, Martino</a>	<a href="#">Grandi, Fabio</a>	<a href="#">Patella, Marco</a>	<a href="#">Valdiserri, Paolo</a>
<a href="#">Cristofolini, Andrea</a>	<a href="#">Lodi, Andrea</a>	<a href="#">Penati, Maria Elisabetta</a>	<a href="#">Vigo, Daniele</a>
<a href="#">Cupini, Giovanni</a>	<a href="#">Longo, Mariolina</a>	<a href="#">Penzo, Wilma</a>	<a href="#">Zanoni, Andrea</a>
<a href="#">Dore, Giovanni</a>	<a href="#">Malaguti, Enrico</a>	<a href="#">Peretto, Lorenzo</a>	<a href="#">Zattoni, Elena</a>
<a href="#">Fiorini, Maurizio</a>	<a href="#">Manzini, Riccardo</a>	<a href="#">Regattieri, Alberto</a>	
<a href="#">Gabielli, Alessandro</a>	<a href="#">Munari, Federico</a>	<a href="#">Ribani, Pier Luigi</a>	

#### **Contract teaching staff:**

[Bertin, Antonio](#)  
[Bugamelli, Fabrizio](#)  
[Rinaldi, Lorenzo](#)  
[Rubini, Riccardo](#)

### 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 with the information on 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 with the information on the offices and the services for the international students (in Italian).*

- [International students](#)

#### C.2.4. GRADUATES

*The link take you to the webpage with the information on the offices and the services for the graduates (in Italian).*

- [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 OEA, 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. In the reports provided for these Programmes, 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**.

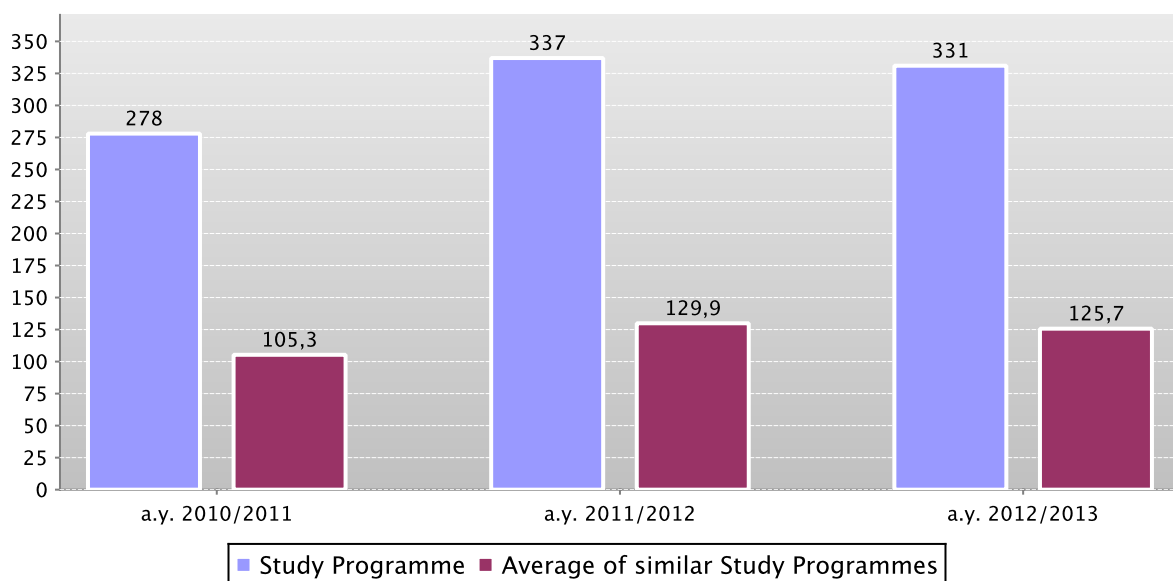
#### D.1.1. ENROLMENTS AND REGISTRATIONS

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	266	278	669	306	337	819	307	331	917
Average of similar Study Programmes	97,8	105,3	152,7	118,6	129,9	161,1	113	125,7	160,1

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

### D.1.2.1. CANDIDATES REGISTERED FOR THE ENTRANCE EXAM

In academic year 2012/2013 access to this Study Programme was not restricted.

### 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.

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.

	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	266	37,2%	12,4%	16,2%	33,1%	1,1%	66,2%	33,8%	91,4%	7,9%	0,8%
	Average of similar Study Programmes	97,8	34,6%	20,3%	7,6%	35,2%	2,3%	69,7%	30,3%	81,6%	16,1%	2,2%
Students 2011/2012	Study Programme	306	36,3%	15,4%	6,9%	41,2%	0,3%	64,1%	35,9%	83,7%	14,7%	1,6%
	Average of similar Study Programmes	118,6	33,4%	19,0%	7,8%	37,7%	2,2%	65,1%	34,9%	79,5%	18,1%	2,4%
Students 2012/2013	Study Programme	307	25,4%	17,9%	9,1%	46,6%	1,0%	62,9%	37,1%	84,7%	14,3%	1,0%
	Average of similar Study Programmes	113	30,9%	20,0%	7,9%	38,8%	2,4%	65,6%	34,4%	80,5%	17,3%	2,2%

		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	1,1%	17,7%		77,8%	3,4%	15,8%	29,3%	28,6%	25,6%
	Average of similar Study Programmes	2,9%	29,3%	0,9%	60,8%	6,0%	19,6%	27,7%	25,0%	26,4%
Students 2011/2012	Study Programme	0,3%	25,8%	2,0%	67,3%	4,6%	19,9%	25,8%	25,5%	27,1%
	Average of similar Study Programmes	2,7%	27,9%	2,0%	61,1%	6,3%	19,6%	26,4%	24,2%	27,2%
Students 2012/2013	Study Programme	0,3%	20,8%	0,7%	74,3%	3,9%	17,6%	29,0%	32,2%	18,2%
	Average of similar Study Programmes	2,5%	27,3%	2,0%	62,3%	5,9%	17,5%	26,6%	26,5%	24,9%

### 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 the 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	266	151	124	56,8%	82,1%
Students 2011/2012	306	187	159	61,1%	85,0%
Students 2012/2013	307	167			

\*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

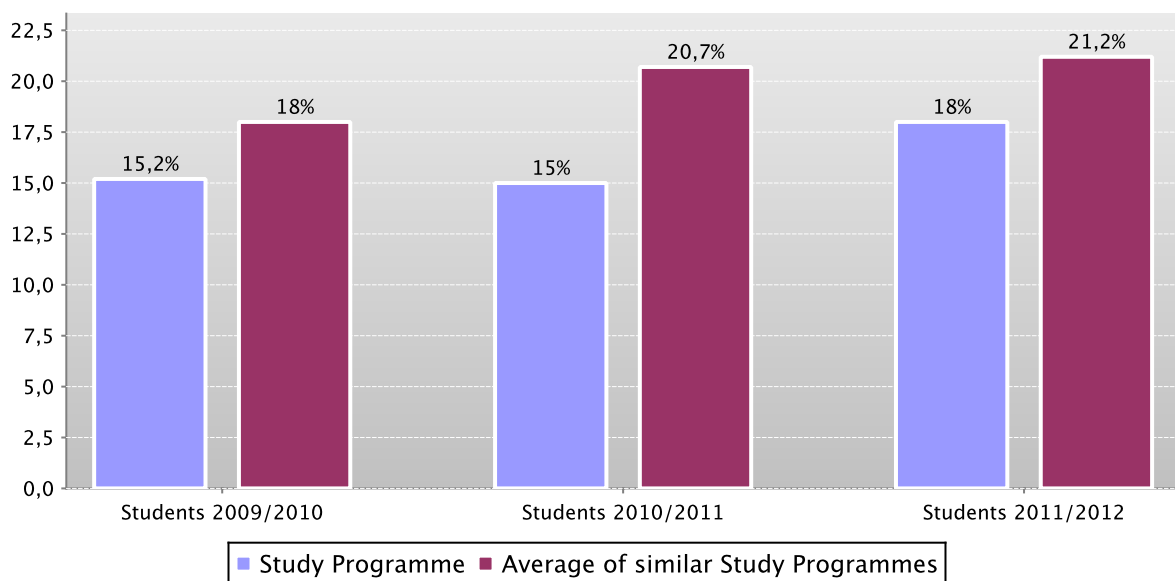
Here the number of students leaving the Study Programme is shown.

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 of (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	231	15,2%	10,8%	2,2%	166
	Average of similar Study Programmes	86,5	18,0%	10,4%	2,3%	59,9
Students 2010/2011	Study Programme	266	15,0%	8,6%	2,6%	196
	Average of similar Study Programmes	97,8	20,7%	12,9%	2,8%	62,2
Students 2011/2012	Study Programme	306	18,0%	6,2%	0,7%	230
	Average of similar Study Programmes	118,6	21,2%	13,9%	2,0%	74,7

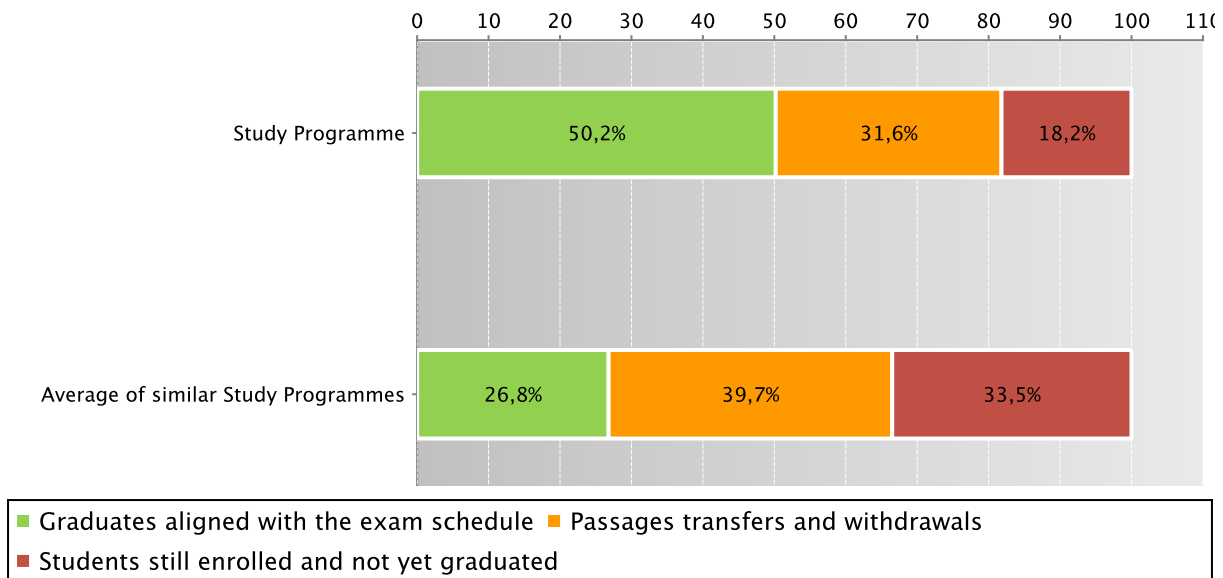
### D.2.2. REGULAR GRADUATES

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 2009/2010 at the end of regular duration of the study programme



	Registered students	Regular graduates		Passages transfers and withdrawals		Students still enrolled and not yet graduated		
		N.	%	N.	%	N.	%	
Students 2008/2009	Study Programme	217	106	48,8%	64	29,5%	47	21,7%
	Average of similar Study Programmes	77,1	19,8	25,7%	30,5	39,6%	26,8	34,8%
Students 2009/2010	Study Programme	231	116	50,2%	73	31,6%	42	18,2%
	Average of similar Study Programmes	86,5	23,2	26,8%	34,4	39,7%	29	33,5%

See data of previous academic years – Study Programme D.M. 509/99 Engineering Management (code 0049) [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

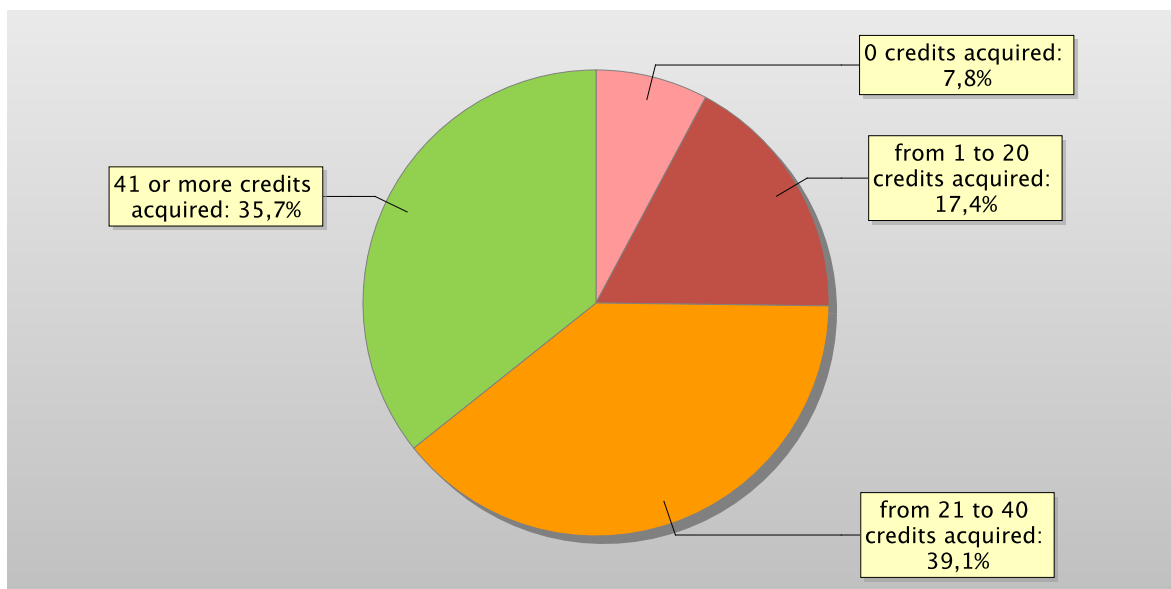
This offers an insight into how regularly students pass their exams.

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 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	166	4,8%	9,0%	49,4%	36,7%	35
	Average of similar Study Programmes	59,9	4,3%	17,5%	40,5%	37,7%	33,3
Students 2010/2011	Study Programme	196	4,1%	13,8%	50,5%	31,6%	32,8
	Average of similar Study Programmes	62,2	5,1%	16,9%	40,1%	37,9%	33,1
Students 2011/2012	Study Programme	230	7,8%	17,4%	39,1%	35,7%	31,4
	Average of similar Study Programmes	74,7	5,1%	16,3%	39,0%	39,7%	33,7

\*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 gestionale (code 0925)

	N. of exams passed	Average grade *
28004 FONDAMENTI DI INFORMATICA T-1	109	23,8
28538 ECONOMIA E ORGANIZZAZIONE AZIENDALE T-1	180	24,2
28616 ANALISI MATEMATICA T-B	248	24
28620 ANALISI MATEMATICA E GEOMETRIA E ALGEBRA T-AB C.I.	236	23,5
28625 FONDAMENTI DI CHIMICA T-A	218	22,7
28626 FISICA GENERALE T-A	168	21,2
28628 FISICA GENERALE T-B	159	22,5
28629 GESTIONE AZIENDALE T-AB	195	25
28630 CONTROLLI AUTOMATICI T-A	180	25,4
28633 ELETTROTECNICA T-A	185	24,8
28635 MATEMATICA APPLICATA T-A	148	24,8
28639 FONDAMENTI DI RICERCA OPERATIVA T-A	174	22,7
28645 IMPIANTI INDUSTRIALI T-AB	146	25,3
28646 GESTIONE DEI PROGETTI D'INNOVAZIONE T-1	172	23,4
28648 LOGISTICA INDUSTRIALE T-AB	164	25,3
28649 STUDI DI FABBRICAZIONE T-1	175	23,5
28651 ELETTRONICA T-A	123	25,4
28652 SISTEMI INFORMATIVI T-1	82	26,9
28653 TELECOMUNICAZIONI T-1	92	26,4
28658 MACCHINE E SISTEMI ENERGETICI T-1	74	26,5
28661 MECCANICA APPLICATA ALLE MACCHINE T-A	53	26,9
28674 ECONOMIA, MERCATI E SETTORI PRODUTTIVI T-AB	17	23,4
28680 TECNOLOGIE WEB E DI INTERNET T-AB	27	29,1
31389 FISICA GENERALE T C.I.	1	
31396 FONDAMENTI E TECNOLOGIE DEI PROCESSI DI COMBUSTIONE T C.I.	1	
32460 FONDAMENTI DI INFORMATICA T-A	56	22,7
33981 SISTEMI INTEGRATI DI LAVORAZIONE M	4	
34322 GESTIONE DELL'ENERGIA T-1 C.I.	67	21,5
34431 SISTEMI DI PRODUZIONE AVANZATI M	5	
34433 ORGANIZZAZIONE AZIENDALE M C.I.	1	
34439 STRATEGIA AZIENDALE M C.I.	4	
37445 AFFIDABILITÀ, CONTROLLO E GESTIONE DELLA QUALITÀ T-AB C.I.	110	26,5
37446 AFFIDABILITÀ E CONTROLLO DELLA QUALITÀ T-A	8	22,6

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

## 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

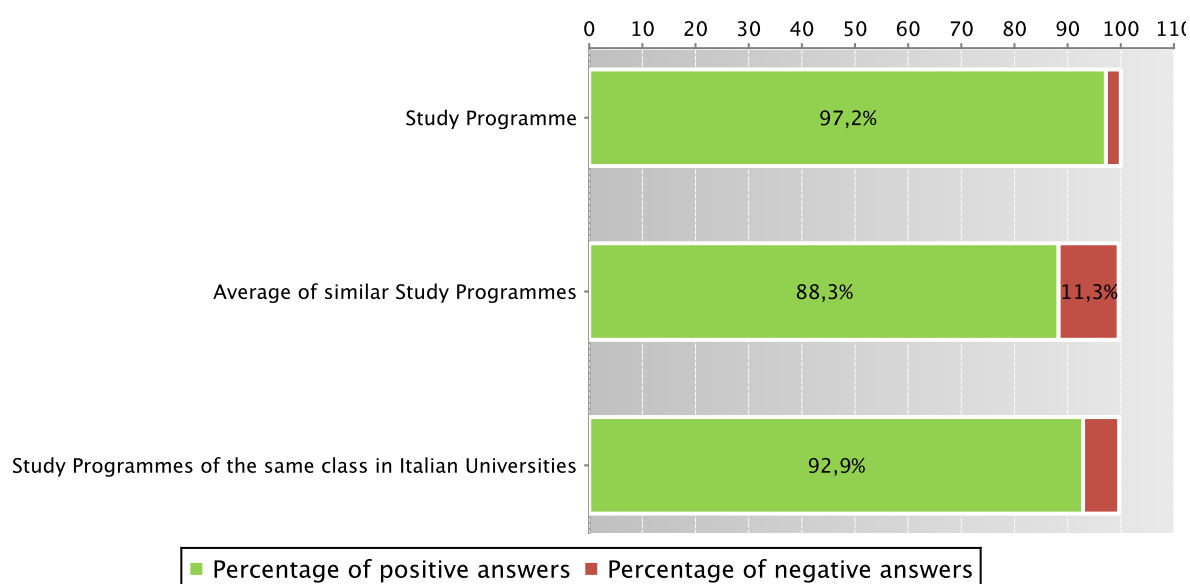
The **graph** shows the percentage of graduates (*AlmaLaurea* survey) who responded positively to the question: “**Are you generally satisfied with the Study Programme**”.

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), and the average of Study Programmes of the same class of other Italian universities for the graduates of 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. 270/04 Ingegneria gestionale (code 0925)*



*Data of the Study Programme D.M. 270/04 Ingegneria gestionale (code 0925)*

		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”
2011	Study Programme	95	94	95,7%	84,0%
	Average of similar Study Programmes	23,7	22,8	88,9%	73,5%
	Study Programmes of the same class in Italian Universities	908	891	95,6%	83,6%
2012	Study Programme	145	143	97,2%	80,4%
	Average of similar Study Programmes	24,4	23,9	88,3%	72,3%
	Study Programmes of the same class in Italian Universities	2678	2532	92,9%	79,8%

Symbols:

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

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

See data of previous academic years – Study Programme D.M. 509/99 Engineering Management (code 0049) [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.

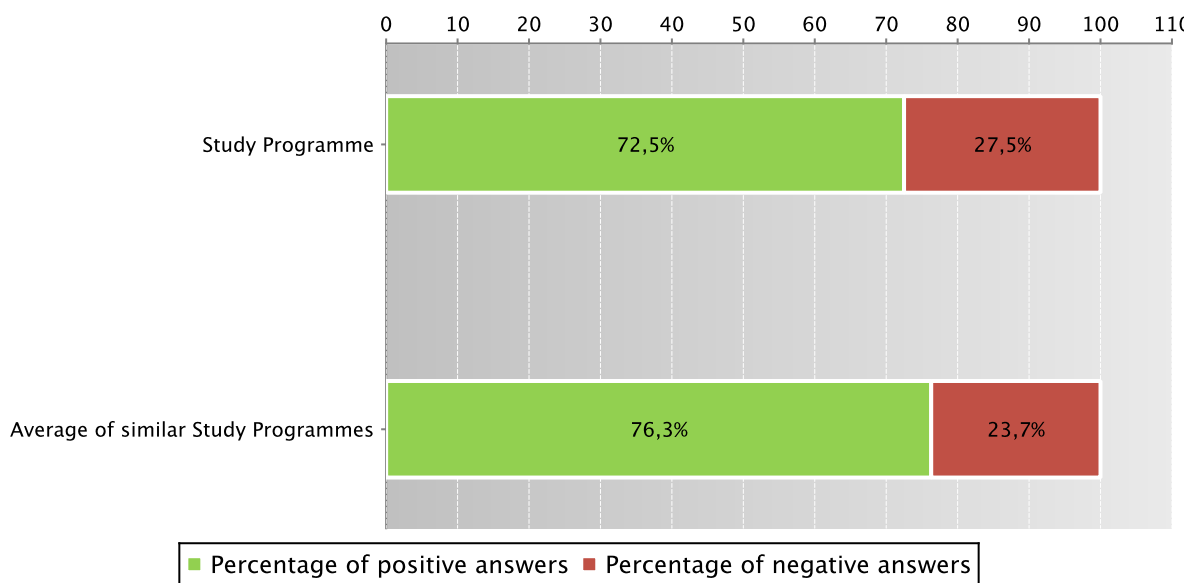
The Study Programme data is compared with the [average of similar Study Programmes \(which belong to the same group\)](#), for the indicated academic years.

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 opinions of students attending the course is cared 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](#) (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 gestionale (code 0925) and of the Study Programme D.M. 509/99 Ingegneria gestionale (code 0049)*



		Number of completed questionnaires	% of positive answers concerning the general satisfaction with the course unit – Question 19
a.y. 2009/2010	Study Programme	2708	68,7%
	Average of similar Study Programmes	1006,2	75,2%
a.y. 2010/2011	Study Programme	2639	77,5%
	Average of similar Study Programmes	1038	75,4%
a.y. 2011/2012	Study Programme	3583	72,5%
	Average of similar Study Programmes	1243	76,3%

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).

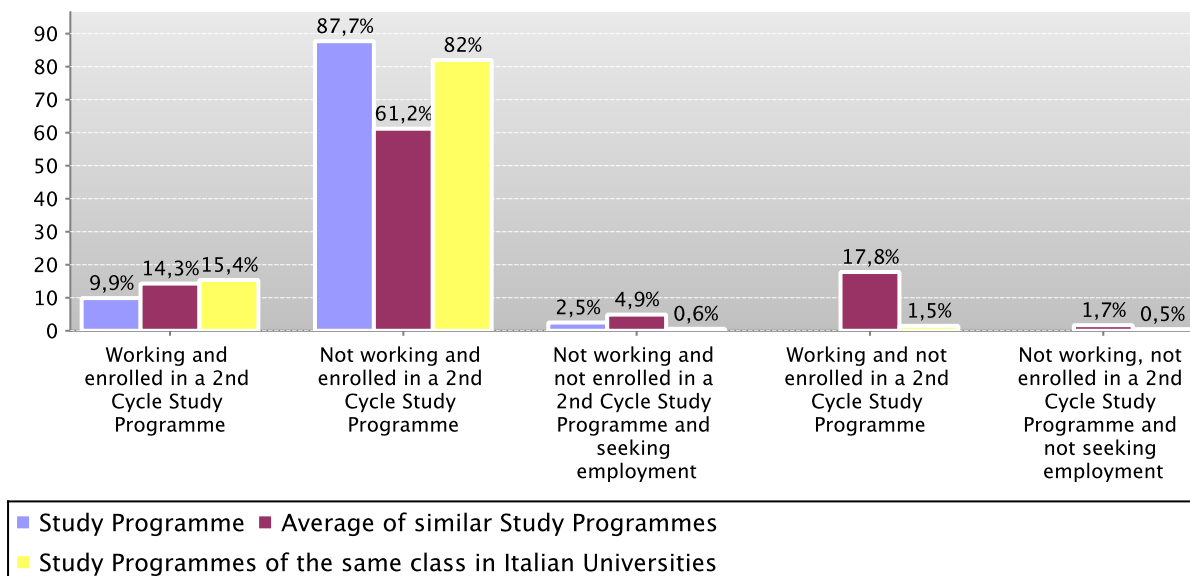
## D.4. ENTRY INTO THE WORLD OF WORK

*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

Employment situation of graduates in 2011 one year after graduating



		N. graduates interviewed	Employment and education 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 and not enrolled in a 2nd Cycle Study Programme	Working and enrolled in a 2nd Cycle Study Programme	Not working and enrolled in a 2nd Cycle Study Programme	Not working, not enrolled in a 2nd Cycle Study Programme and not seeking employment	Not working and not enrolled in a 2nd Cycle Study Programme and seeking employment		Effective / very effective	Quite effective
Graduation Year 2011	Study Programme	81		9,9%	87,7%		2,5%	77,8%		12,5%
	Average of similar Study Programmes	21,7	17,8%	14,3%	61,2%	1,7%	4,9%	55,2%	33,5%	26,0%
	Study Programmes of the same class in Italian Universities	851	1,5%	15,4%	82,0%	0,5%	0,6%	73,2%	20,4%	28,2%

See data of previous academic years – Study Programme D.M. 509/99 Engineering Management (code 0049) [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

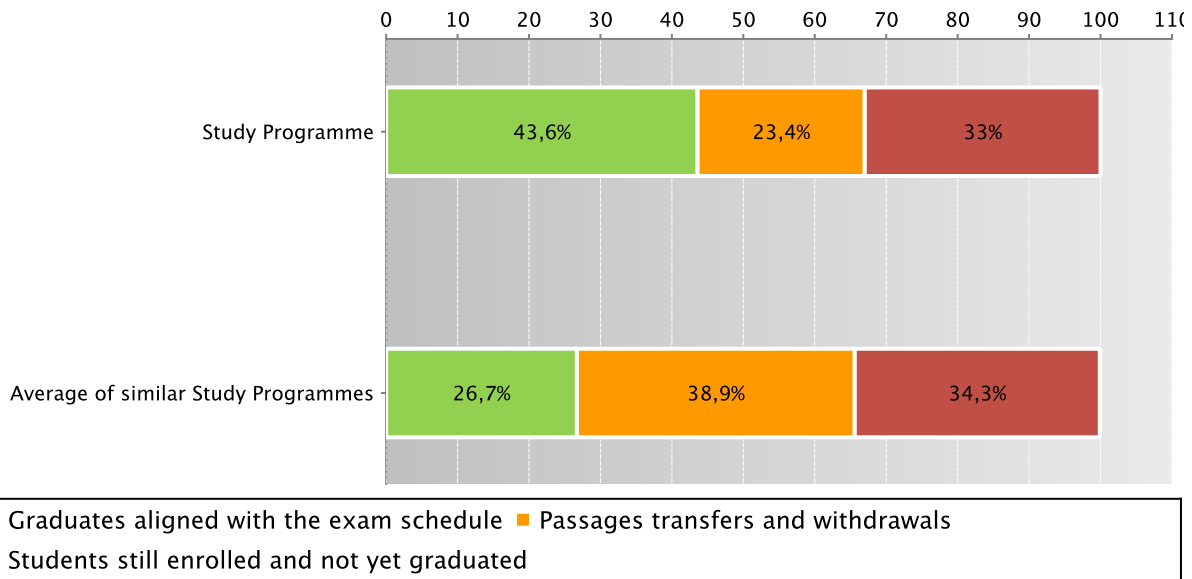
Here you will find information on regular graduates, on how many students, at the end of the regular programme duration, left the programme and how many are still enrolled but not aligned to the exam schedule.

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 Engineering Management (code 0049)



Data of the Study Programme D.M. 509/99 Engineering Management (code 0049)

	Registered students	Regular graduates		Passages transfers and withdrawals		Students still enrolled and not yet graduated		
		N.	%	N.	%	N.	%	
Students 2007/2008	Study Programme	188	82	43,6%	44	23,4%	62	33,0%
	Average of similar Study Programmes	72,8	19,5	26,7%	28,4	38,9%	25	34,3%

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

Data of exams passed and average grade are shown in paragraph [D.2.3.2.](#)

### 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

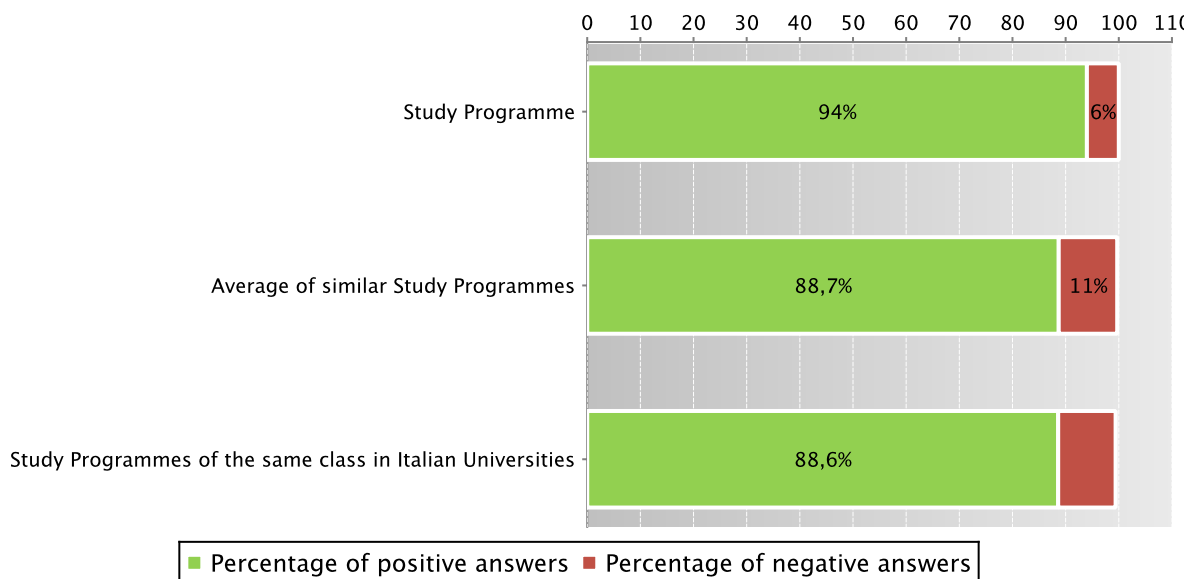
The **graph** shows the percentage of graduates (AlmaLaurea survey) who responded positively to the question: “**Are you generally satisfied with the Study Programme**”.

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 2010 who responded positively to the question: “Are you generally satisfied with this Study Programme?”

*Data of the Study Programme D.M. 509/99 Ingegneria gestionale (code 0049)*



*Data of the Study Programme D.M. 509/99 Ingegneria gestionale (code 0049)*

	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	188	184	94,0%	79,9%
	Average of similar Study Programmes	44,6	43,4	88,7%	72,5%
	Study Programmes of the same class in Italian Universities	5350	5111	88,6%	73,0%

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.

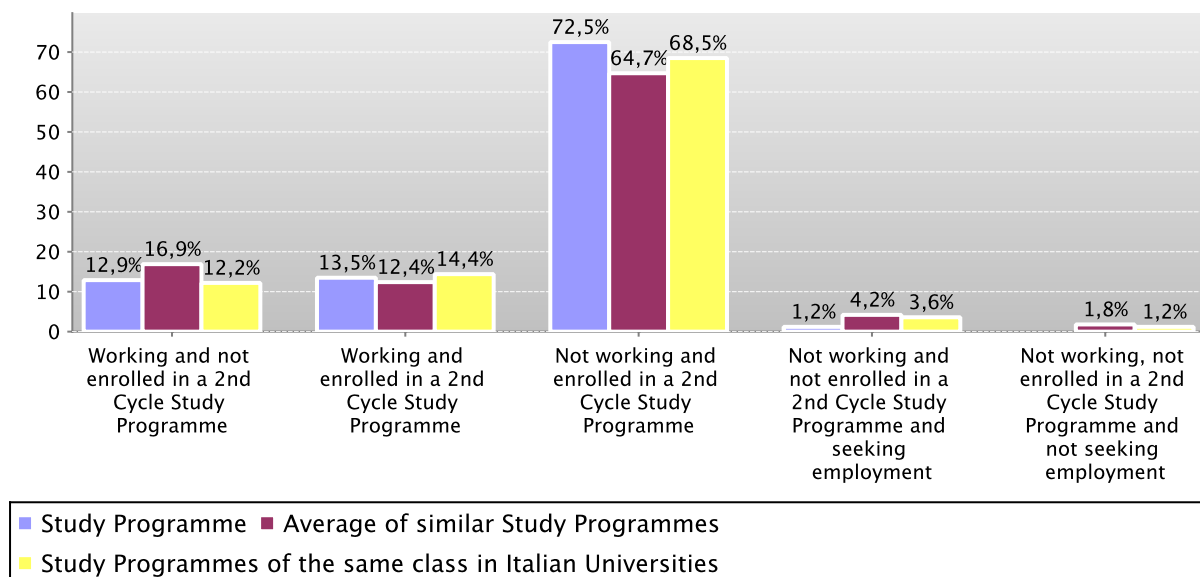
The **graph** shows who is working, who is not working but has enrolled in a Second Cycle study programme, who is not working and is not seeking employment, who is not working but is seeking employment.

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 faculty of other Italian universities for the graduates of the indicated years.

Employment situation of graduates in 2010 one year after graduating

*Data of the Study Programme D.M. 509/99 Engineering Management (code 0049)*





Data of the Study Programme D.M. 509/99 Engineering Management (code 0049)

		N. graduates interviewed	Employment and education 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 and not enrolled in a 2nd Cycle Study Programme	Working and enrolled in a 2nd Cycle Study Programme	Not working and enrolled in a 2nd Cycle Study Programme	Not working, not enrolled in a 2nd Cycle Study Programme and not seeking employment	Not working and not enrolled in a 2nd Cycle Study Programme and seeking employment		Effective / very effective	Quite effective
Graduation Year 2009	Study Programme	165	15,2%	6,1%	73,9%	1,8%	3,0%	65,5%	26,5%	47,1%
	Average of similar Study Programmes	43,1	19,0%	11,8%	62,8%	1,9%	4,5%	58,0%	34,5%	32,8%
	Study Programmes of the same class in Italian Universities	4425	12,7%	14,6%	68,2%	1,3%	3,2%	59,9%	31,5%	33,3%
Graduation Year 2010	Study Programme	171	12,9%	13,5%	72,5%		1,2%	66,7%	15,6%	40,0%
	Average of similar Study Programmes	40,6	16,9%	12,4%	64,7%	1,8%	4,2%	59,0%	30,8%	34,6%
	Study Programmes of the same class in Italian Universities	4883	12,2%	14,4%	68,5%	1,2%	3,6%	59,2%	29,7%	36,1%

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 and education situation": the number of employed graduates is the sum of those working and those working who are also enrolled in a 2nd cycle degree programme. The number of those enrolled in a 2nd cycle degree programme is the sum of those who are working and studying and those who are only studying.

(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.

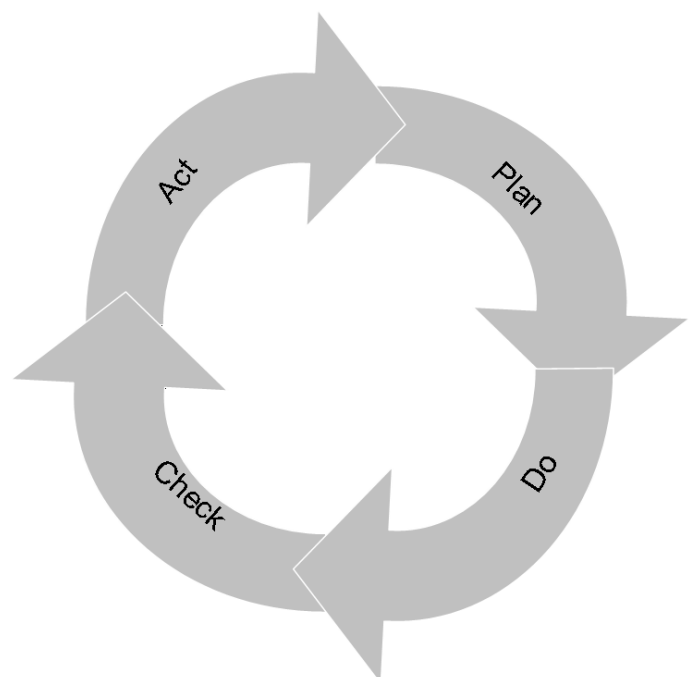
In the Statute and the Strategic Plan 2010-2013 the University of Bologna acknowledges its responsibility in guaranteeing the quality of its study programmes, and for this purpose adopts an "internal quality assurance system".

### 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:

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**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

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**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

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**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.