

Reformation of the Curricula on Built Environment in the Eastern
Neighbouring Area

Identification of the Appropriate Issues for Cross
Institutional Module Sharing

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1 Introduction

This report aims to illustrate the issues and constraints related to cross institutional module development, sharing and delivery from the perspective of Bologna University.

The university's current strategy of internationalisation is pointed out together with the issues on research and international networks.

2 Overview



Alma Mater Studiorum Overview

Founded in 1088 since 1989, adopted a **Multicampus Structure (Bologna, Forli, Cesena, Ravenna, Rimini)**.



- **83.000** students in a.y. **2011/2012** of which about **5.000** are foreign students from about 100 Countries
- 11 schools
- Research Units: **100** (of which 33 departments)
- Libraries: **100**
- Museums: **16**
- Educational Programs (411 CdS):
 - 101 First degree courses
 - 108 Second degree courses
 - 70 Professional Master
 - 51 Ph.D

ALMA MATER STUDIORUM - UNIVERSITÀ DI BOLOGNA

Dimensions:

- Staff: about **5.198** teachers and researchers (3.098 tenure-track, the rest not tenure-track); **3.151** technical-administrative staff (tenure-track and not tenure-track)
- Overall surface: about **630.000 m²**
- Market share: about **8%**
- National budget share: about **6%**
- Budget: **€ 732 millions (2011)**
 - 71,21% Government
 - 22,09% Student fees
 - 0,92% Private
 - 1,09% European Union
 - 0,55% Public Authorities (Regione, Comuni, ecc.)
 - 0,91 Commercial Activities (i.e. on demand-research)
 - 3,22% Others contributions

3. Strategic aims

The **Strategical Pillars** for the **Strategical Plan 2010-2013** are:

Research

- To sustain research and support applied research in order to contribute to the development of persons, citizens and society
- To promote and support training to research in all the steps
- To strengthen the capability of attracting international researchers in the scientific structures of the University of Bologna

Education

- To assure personal, cultural and professional growth of the students, with reference to society needs as well
- To improve quality in learning
- To strengthen the international nature and approach of the educational study programmes
- To develop policies devoted to the enhancement of the smartest students
- To strengthen policies for the implementation and realization of students financial aid, services and facilities

The **Strategical Pillars** referring to **Research** and **Education**, their specific objectives and strategies are crossed by the following elements:

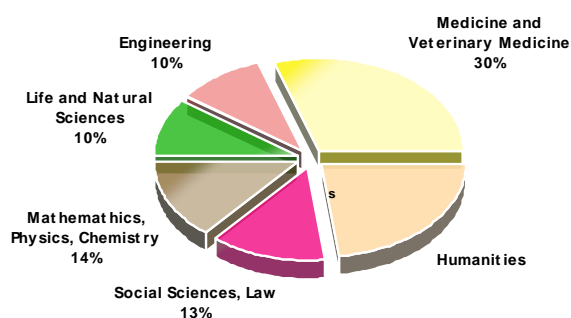
- Development and empowerment of human resources

- **Internationalisation**
- **Social responsibility of the University of Bologna**

4. Research

Research potential: about 3.100 persons involved in research activity, to which 1.800 Ph.D students and post-doc have to be added.

- **Budget for Research:** more than 45 M€
- **Financial sources for Research at the University of Bologna:** local funds, national and international institutions, companies, no-profit companies, European Union



Partition of researchers in research areas



Regional Net for the technological transfer and innovation

- 57 structures
- 27 industrial and research laboratories
- 24 centers
- 6 innovation parks

The University of Bologna is involved in:

- 20 industrial research laboratories (1 coordinated by Unibo)
- 10 innovation centers (2 coordinated by Unibo)
- 2 innovation parks (1 coordinated by Unibo)

5. Internazionalisation

University internationalization process focuses on:

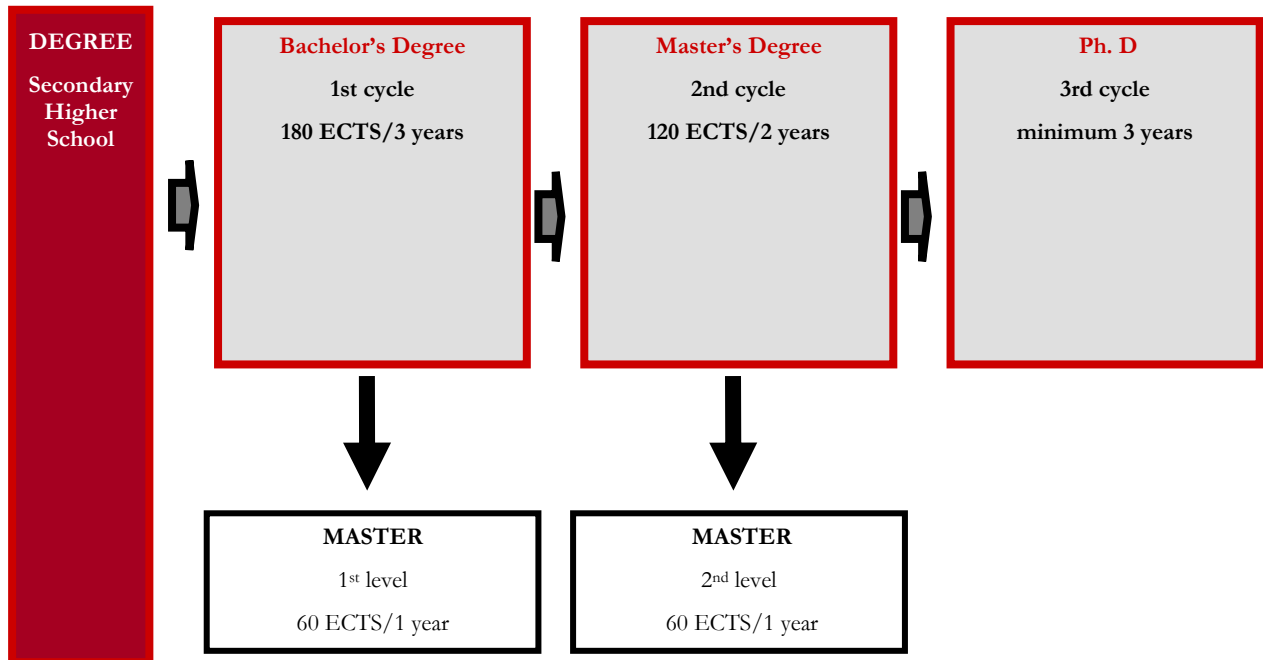
- **Area initiatives** (China, South America – where the University of Bologna founded a **Campus in Buenos Aires** -, Balkans, India (Invest your talent in Italy);
- **Educational programs/courses** (Degree courses, Master courses, Summer School) totally taught **in foreign languages** and/or developed in connection with foreign Universities;
- **Recruitment of foreign students**, that regularly apply to educational programs held in **foreign languages** and **Italian** as well;
- **Exchange Mobility (in and out)** for training, study, education and work, for students and teaching and administrative staff, thanks to international agreements (general and specific) with foreign Universities (UE and Extra-UE, i.e. LLP Erasmus, Overseas; other European mobility programmes like LLP Leonardo, E.M. External Cooperation Windows);
- **Cooperation** with other European and Extraeuropean Universities, throughout the participation in networks and training, research and educational programs (in particular UE programs)

The Italian University System is based on the so-called “Processo di Bologna”, whose fundamental purposes are: the increasing of mobility, the adoption of a three-cycles system and of comparable/compatible titles of study, the creation of a system of credits (CFU=ECTS), the promotion of European cooperation in the evaluation of quality and quality assurance.

- 1st cycle, **Diploma di Laurea (180 ECTS/3 years = Bachelor’s degree)**.
- 2nd cycle, **Diploma di Laurea Magistrale (120 ECTS/2 years = Master’s degree)**.
- 3rd cycle, **Dottorato di ricerca e Diploma di Specializzazione (PhD or postgraduate and specialization course)**
- Besides Italian Universities offer advanced study programmes called **University masters of first and second level (high level vocational training)** accessible to whom obtained a Bachelor’s Degree or a Master’s Degree or equivalent degrees (Duration: at least 1 year/minimum 60 ECTS)

The official description of the Italian University system can be consulted at the site: www.study-in-italy.it/study/new-degrees.html

6. Italian University System



7. Faculties/Schools

List of Schools:

- Agriculture and Veterinary Medicine
- Arts, Humanities and Cultural Heritage
- Law
- Economics, Management and Statistical Science
- Engineering and Architecture
- Modern Foreign Languages and Literatures and Interpreters
- Medicine and Surgery
- Pharmacy and Biotechnologies and sport sciences
- Psychology and Education Science
- Sciences (Mathematical, Physical and Natural)
- Political Science - Bologna

8. Educational Programs in a Foreign Language

Master Degree Programs (2 years/120 ECTS)

Totally taught in English with particular requisites in quality assurance: 13 in the a.y. 2011/12, i.e.:

Master level

- **Advanced Spectroscopy in Chemistry (Erasmus Mundus; Joint Degree)**
- **Bioinformatics (Multiple Degree)**
- **Civil Engineering (Multiple Degree)**
- **ICT**
- **Innovation and Organization of Culture and the Arts**
- **Economics;**
- **International Management**
- **Horticultural Sciences (Erasmus Mundus; Multiple Degree)**
- **Cultures Littéraires Européennes (Erasmus Mundus; Multiple Degree)**

Bachelor level

- **Business and economics**
- **Automation engineering with Tongji University (Shanghai) totally taught in English;**

9. Informations and Events

Summer School

- Summer Schools are a **programme of intensive courses** with a didactic offer in different scientific disciplines, whose aim is to meet new demands of cultural and interdisciplinary studies, lasting variably from 1 to 4 weeks.
- Their syllabi schedule lectures, workshop and laboratories, in addition to opportunities devoted to the discovery of the regional culture and traditions.
- The courses are addressed to students and young graduates from Italy and all over the world and, in some cases, to specific professional figures. They also allow the **awarding of ECTS** that will be normally recognized by the Universities they come from.

Facilities

Italian Language Courses

- **Italian Language Course of 6 months addressed to Chinese students involved** in the Marco Polo project;
- **Intensive Italian Course** lasting **1 month (two times per year)** for **all the international and exchange students** that takes place in the Linguistic Centres of the University of Bologna (in Bologna and Romagna)
- **Summer School** of Italian language and culture open also to non-students.

International students regularly enrolled

Academic Year	International students	% on the total of students
2000/2001	3.162	3.12%
2001/2002	3.525	3.45%
2002/2003	3.565	3.56%
2003/2004	3.893	3.96%
2004/2005	3.920	4.07%
2005/2006	4.222	4.40%
2006/2007	4.459	4.80%
2007/2008	4.592	5.22%
2008/2009	4.600	5.47%
2009/2010	About 5.000	About 6%
2010/11	About 5.000	About 6%

Exchange students

Academic Year	Outgoing	Incoming
2001/2002	1.065	1.107
2002/2003	1.276	1.209
2003/2004	1.364	1.433
2004/2005	1.391	1.796
2005/2006	1.464	1.882
2006/2007	1.456	1.968
2007/2008	1.570	1.927
2008/2009	1.535	1.976
2009/2010	1.774	2.080
2010/11	1.820	2082

Summer Schools

Year	Courses	Students	International Students
2003	18	482	200
2004	16	807	500
2005	32	1.383	800
2006	49	1.800	800
2007	49	1.200	750
2008	50	1.250	770
2009	46	1.230	780
2010	36	1.100	700
2011	37	1.050	680

10. International Networks

University of Bologna adheres to a series of **International Networks** constituted by groups of Universities from the European and Mediterranean area and from all over the world with the aim of promoting activities of cooperation in different academic and scientific fields and creating, in particular, a European area of common Higher Education. The main groups of Associations and Network of which the University of Bologna is part of, are:

- Coimbra Group
- CUM – Communities of Mediterranean Universities
- EUA – European University Association
- Europaeum
- FIUP – Forum international des Universités publiques
- IAU – International Association of Universities
- Unimed
- Utrecht Network

11. Threaten and constraints

As we underlined in the market need analysis the built environment teaching is not particularly diffused in UNIBO courses at any level. This is connected to the almost rigid situation of academic fields (*raggruppamenti*) and to the slowness on which novelty and innovation are introduced in the curricula.

We underline also the particular complex process for the approval of any change in the teaching structure (see Figure above). This process, as shown, derives from a combination of top-down procedures with bottom-up ones and automatic feedback and could last a lot of time. At the other side another constraint could be produced by this particular period as in 2012-2013 it starts the restructuring of Faculties that was abolished and substituted by Schools and departments in application to the University reform (Italian Law n. 240 / 2010).

The process for the introduction of official changes in the courses structure.

