ALMA MATER STUDIORUM UNIVERSITÀ DIBOLOGNA



ALMA MATER STUDIORUM UNIVERSITÀ DI BOLOGNA

2018/19



Erasmus+



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NINE CENTURIES OF HISTORY

THE BIRTH **OF THE UNIVERSITY**

The Studium in Bologna is the first home of free teaching, independent from ecclesiastic schools. Irnerio's law school marks the birth of Western universities.

ONE CITY. **MANY NATIONS**

XIII cent.

The University bears witness to its nature as an international community, including both "citramontani" - from "beyond the mountains" and "ultramontani" - from "beyond the Alps": during this period, over 2,000 students came from all across Italy and Europe. The University fights to maintain its autonomy against all outside interference.

FROM BOLOGNA TO THE WORLD. FROM THE WORLD TO BOLOGNA

Medicine and philosophy, hard sciences and mathematics, engineering and economics are the major subjects of a university that becomes an undisputed international authority in all fields of knowledge. The University sends and attracts scientists and scholars, creating an increasingly broad network of relations.

XVI-XVIII cent.

NEW CHALLENGES

XX cent.

The University continues to play an undisputed central role amona many other places of learning and research institutions. It continues to cooperate with all major institutions in the world, within an increasingly dynamic and complex global framework.

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|---|---|---|--|
| | | | |

XII cent.

FREEDOM **OF RESEARCH**

Federico I Barbarossa recognises the University as a libera societas of masters and pupils. The empire undertakes to protect scholares travelling for the purposes of study. For the first time, the absolute freedom of research is ratified.

BROADENING THE HORIZONS OF KNOWLEDGE

XIV-XV cent.

Beginning in the 14th century, jurist schools sit alongside so-called "artists", students of Medicine, Philosophy, Arithmetic, Astronomy, Logic, Rhetoric and Grammar. Bologna becomes an obligatory destination for all key intellectuals of the time.

THE MOTHER **OF ALL UNIVERSITIES**

1888

In 1888, the University celebrates its eighth centenary, a grand event held in Bologna attended by representatives of all the world's universities, honouring the Alma Mater Studiorum as the mother of all universities. The celebrations in Bologna become an international festival of education.

UNIVERSITY, AN INTERNATIONAL AGREEMENT

1988

Celebrating the Alma Mater's ninth centenary, the Rectors of 500 European universities meet in Bologna to sign the Magna Charta Universitatum: an international agreement confirming the inalienable value and autonomy of universities.



The primary goals of the University are teaching and research [....] Given its long-standing identity as a place of general studies, the University acknowledges the equal dignity and opportunities of all branches of learning that assure scientific and educational capital. This University protects and renews its cultural heritage, meeting the different needs of society.

University Statute, Constituent Principles, Art. 1 para. 3



BOLOGNA PROCESS

Signature of the Bologna Declaration creating the European Higher Education Area (Bologna Process).

1999

2016

THE UNIVERSITY LOOKS TO THE FUTURE

In order to implement a planning process for tackling today's challenges, particularly in relation to sustainable development, the University integrates its strategic planning with a re-reading of the 17 basic sustainable development goals as proposed by the 2030 Agenda adopted by the UN General Assembly.

MULTI-CAMPUS UNIVERSITY

D.1088

UNIVERSITY GOVERNING BODIES

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• Rector supported by 7 vice-Rectors with the following duties: Deputy Rector, Teaching, Research, Human Resources, International Relations, Students, Digital Technologies

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- Academic Senate composed of 35 members: Rector, 10 Heads of Department, 15 Professors and Assistant Professors, 3 representatives of the Technical and Administrative Staff, 6 student representatives
- Board of Governors composed of 11 members: Rector, 5 internal members, 3 external members, 2 student representatives
- Board of Auditors composed of 3 statutory members and 2 deputy members
- University Evaluation Unit composed of 5 members, 4 of which are external
- **Director General**

AUXILIARY BODIES

- Student Council composed of 33 members
- Technical and Administrative Staff Council composed of 24 members
- Sponsors' Committee composed of 9 members representing the bodies and institutions working in the various fields and territories the University operates in
- Student Ombudsman •
- Guarantee Committee for Equal Opportunities, • Employee Wellbeing and Non-Discrimination at Work

UNIVERSITY CENTRE FOR THE PROTECTION AND **PROMOTION OF HEALTH AND SAFETY**

- Occupational Safety and Health Service
- Service for Animal Welfare in the University Teaching and Scientific Facilities

SCHOOLS AND DEPARTMENTS

Through its organisational structures, the University of Bologna coordinates teaching and research activities in all disciplines.

5 SCHOOLS

- Arts, Humanities, and Cultural Heritage •
- Economics and Management, •
- Engineering •
- Medicine
- Science

32 DEPARTMENTS

Medicine

- Experimental, Diagnostic and Speciality Medicine •
- Biomedical and Neuromotor Sciences •
- Medical and Surgical Sciences ٠
- Veterinary Medical Sciences

Science

- Chemistry "Giacomo Ciamician" •
- Industrial Chemistry "Toso Montanari" •
- Pharmacy and Biotechnology ٠
- ٠ Physics and Astronomy
- Mathematics
- Biological, Geological, and Environmental Sciences ٠
- For Life Quality Studies ٠



Social Studies

- Management
- Economics
- Legal Studies •
- Political and Social Sciences
- Statistical Sciences "Paolo Fortunati"
- Sociology and Business Law

Technology

- Architecture •
- Computer Science and Engineering
- Civil, Chemical, Environmental, and Materials Engineering
- Electrical, Electronic, and Information Engineering "Guglielmo Marconi"
- Industrial Engineering
- Agricultural and Food Sciences

Humanities

- The Arts •
- Classical Philology and Italian Studies •
- Philosophy and Communication Studies
- Modern Languages, Literatures, and Cultures
- Psychology
- Education Studies "Giovanni Maria Bertin"
- History and Cultures
- Cultural Heritage
- Interpreting and Translation

ISTITUTO DI STUDI SUPERIORI (INSTITUTE FOR HIGHER STUDIES)

The Institute for Higher Studies is a centre for international and inter-disciplinary excellence, where University and other residents engaged in studies and research meet and interact with professors, researchers and students for the benefit of all. The level of the education is particularly high, due to the large number of international researchers who facilitate the transfer of knowledge drawn from their activities in important related areas, as is the quality of learning which is monitored constantly with reference to performance. The Institute for Higher Studies collaborates with all Departments, inter-departmental Research Centres and other University structures, while also participating in various international networks of similar Institutes with which methods, models and projects are shared. It consists of two sections: the Collegio Superiore and the Institute of Advanced Studies.

UNIVERSITY LIBRARY SYSTEM

This coordinated series of services seeks to preserve, enhance, develop and manage our accumulated wealth of books and documents in a unified manner.

UNIVERSITY MUSEUM NETWORK

This coordinated collection of structures is responsible for classifying, protecting and promoting the many assets of historical, artistic and scientific interest accumulated by the University.

THE UNIVERSITY LANGUAGE CENTRE

The University Language Centre addresses the internationalisation goals envisaged in the University Statute, ensuring the pursuit of language learning objectives.

BOLOGNA UNIVERSITY LIBRARY

This is the Central Library, as established in the Regulation for the University Library System. This library protects, promotes and develops its wealth of books and documents, encouraging their use.

The structure comprises:

- Historical Archive
- "Umberto Eco" International Center for Humanistic **Studies**

RESEARCH AND TRAINING CENTRES

- Experimental Farm: supporting research and • experimentation by relevant Departments since 1974.
- Public Sector Research and Training Centre Specialisation School for Public Administration Studies, European School of Advanced Fiscal Studies, Advanced School for Health Policy, High School for Legal Studies, Specialisation School for Legal Professions "Enrico Redenti"
- "Ercole De Castro" Advanced Research Center on Electronic Systems
- Centre for Advanced Studies in Tourism
- "A. Gaudenzi and G. Fassò" Interdepartmental Centre for Research in the History, Philosophy, and Sociology of Law and in Computer Science and Law
- "Giorgio Prodi" Interdepartmental Cancer Research Centre
- L. Galvani" Interdepartmental Research Centre for Integrative Studies in Bioinformatics, Biophysics and Biocomplexity
- Interdepartmental Research Centre for Environmental Sciences
- Centre for Applied Biomedical Research
- Advanced School of Studies on the City and Territory

INTERDEPARTMENTAL INDUSTRIAL RESEARCH CENTRES

- Aeropace
- Agri-food
- **Building and Construction**
- ٠ Renewable Resources, Environment, Sea and Energy - FRAME
- ICT
- Advanced Mechanics and Materials
- Health Science and Technology ٠

ALMA MATER FOUNDATION

The Alma Mater Foundation is an operational entity that performs planning and management tasks for the University of Bologna and supports the University in the pursuit of its stated goals.



Alma Mater Studiorum - Università di Bologna has been a Multi-campus university - the only one in the Italian university system – since 1989, with campuses in Bologna, Cesena, Forlì, Ravenna and Rimini. Each campus has its own distinct scientific and educational identity and its own institutional, cultural, social and sports facilities and services. Schools, departments, or specific school and department organisational units are located on each campus. Each campus coordinates its teaching and research support services and initiatives in the best interests of the students; also, active relationships are maintained with local authorities, organisations and people with a view to enhancing the cultural, economic and social development of the area.

CESENA CAMPUS

The key teaching and research subject areas on this campus are psychological sciences, architecture, electronics and biomedical engineering, computer sciences, food science and aquaculture. In addition, the Interdepartmental Centres for Industrial Research pursue research projects in the fields of agrofood, information and communication technologies, technology transfer and innovation support for business.

Current PhD programme degrees concentrate on the study of architecture, psychology and health science and technology

Schools

• Engineering

Department and Departmental Local Organizational Units (U.O.S.)

- Architecture (Department and U.O.S.)
- U.O.S. Informatics Science and Engineering
- U.O.S. Electrical, Electronic, and Information Engineering "Guglielmo Marconi"
- U.O.S. Psychology
- U.O.S. Aaricultural and Food Sciences
- U.O.S. Veterinary Medical Sciences

Other academic structures

- Interdepartmental Industrial Research Centre Aarifood
- Interdepartmental Industrial Research Centre ICT

FORLÌ CAMPUS

This campus has a markedly international orientation, as evidenced by the large number of first and second cycle degree programmes taught entirely in English and the programmes offering double or multiple degrees or joint degrees with foreign universities.

The main teaching and research subject areas are mechanical and aeronautical engineering, interlinguistic translation, interpretation and communication, political, social and international sciences, business studies and economics.

Current PhD programme degrees concentrate on political and social sciences and translation, interpreting and intercultural studies.

Schools

• Economics and Management

Department and Departmental Local Organizational Units (U.O.S.)

- Department of Management
- Department of Interpreting and Translation
- U.O.S. Industrial Engineering
- U.O.S. Economics
- U.O.S. Sociology and Business Law
- U.O.S. Political and Social Sciences

Other academic structures

• Interdepartmental Industrial Research Centre - Aerospace

RAVENNA CAMPUS

The teaching and scientific elements that characterise this campus comprise marine environmental sciences and oceanography, the conservation, protection and restoration of cultural assets and historic buildings, the archaeology and study of ancient cities and their territories, international cooperation, legal sciences addressing rights, businesses, public administrations and port systems and, lastly, building and offshore engineering.

The Faenza Centre covers subjects relating to the chemistry of materials and the healthcare professions.

Commencing from the 2018/19 academic year, the new PhD in Cultural and Environmental Heritage involves all the research resources active on Campus. There is also a PhD Programme in Jewish Studies.

Schools

• Arts, Humanities, and Cultural Heritage

Department and Departmental Local Organizational Units (U.O.S.)

- Department Cultural Heritage
- U.O.S. Industrial Chemistry "Toso Montanari" (Faenza)
- U.O.S. History and Cultures
- U.O.S. Biological, Geological, and Environmental Sciences
- U.O.S. Legal Studies

Other academic structures

- Interdepartmental Research Centre for Environmental Sciences
- Interdepartmental Industrial Research Centre-Renewable
- Resources, Environment, Sea and Energy FRAME
- Advanced School of Studies on the City and Territory

UNA EUROPA (EUROPEAN UNIVERSITY ALLIANCE)

Six prestigious European Universities - Freie Universität Berlin (Germany), University of Bologna (Italy), Universytet Jagielloński (Poland), KU Leuven (Belgium), Universidad Complutense de Madrid (Spain), Université Paris 1 Panthéon-Sorbonne (France) – speak internationally with a single voice since April 2018. Tight synergies open new scenarios in the field of higher education and scientific research, looking towards the birth of a true European University. Thirty years after the Magna Charta Universitatum and twenty years on from the signature of the Bologna Declaration, the "European ambition" is relaunched by the Universities, which have always harboured the values of Europe and forged the talents of tomorrow. UNA Europa seeks to encourage the structural development of the European Higher Education Area and the European Research Area, establishing long-term, sustainable, solid and dynamic ties.



RIMINI CAMPUS

Teaching and research activities at Rimini currently address wellness and relaxation, fashion, tourism, the use of finance and insurance to manage risk, business administration and strategies, the economic analysis of environmental services, the chemistry and technology of waste, cosmetics, the healthcare professions and education sciences. Numerous degree programmes are taught in English, given the strong international flavour of the Campus. Current PhD programme degrees concentrate on pharmacology and toxicology, human development and movement sciences and the science and culture of well-being and lifestyles. The number of classrooms and areas available to students has increased due to the completion of a number of construction projects.

Schools

Economics and Management

Department and Departmental Local Organizational Units (U.O.S.)

- Department of Management
- Department For Life Quality Studies
- U.O.S. Industrial Chemistry "Toso Montanari"
- U.O.S. Economics
- U.O.S. Statistical Sciences "Paolo Fortunati"

Other academic structures

Centre for Advanced Studies in Tourism

BUENOS AIRES CAMPUS

Degree programmes and post-graduate and masters programmes offered by the University of Bologna's Argentinian centre are focused on the promotion of international relations between Europe and Latin America.

ALMA TONG PROJECT – SHANGHAI

The degree programmes available at the Sino-Italian Campus of Tongji University in Shanghai, inaugurated in 2006, are the Double Bachelor and Master Degree Programme in Automation Engineering, the Second Cycle Degree Programme in Automation Engineering and the Second Cycle Degree Programme in Historic Buildings



ALMA MATER ADOPTION OF THE UN 2030 AGENDA FOR SUSTAINABLE DEVELOPMENT

With a view to accepting the challenges imposed by modern society and directing all our institutional activities towards the pursuit of sustainable development, the University planning and reporting processes, which document objectives, activities and results, now take full account of the 17 sustainable development goals proposed in the 2030 Agenda adopted by the General Assembly of the United Nations.

These 2030 Agenda goals have been shared on a global level in order to provide a framework for measuring the progress made by each organisation and country towards a more sustainable world.

The commitment and contribution of Alma Mater to the achievement of sustainable development via our institutional activities is witnessed, above all, by our revision of the key objectives underpinning the 2016-2018 Strategic Plan with reference to the 17 goals and 169 associated targets proposed in the 2030 Agenda. These are reflected in the document by the icon for the UN goal to which each key objective intends to contribute. In this way, while describing the strategic framework that will guide the University of Bologna throughout the 2016-2018 period, the Plan also clarifies how the future institutional activities of the University intend to contribute to achieving a world that is more sustainable for everyone.

Additionally, in order to monitor systematically the impact of the various University activities in terms of their sustainability, commencing from 2016 Alma Mater has adopted an additional annual reporting tool (Report on U.N. Sustainable Development Goals) that measures their contribution to the achievement of the 17 UN SDGs. The 2016 edition of this document, prepared by the Technical and Scientific Committee responsible for University Social Responsibility Reporting, was presented to the G7 Environment Meeting held in Bologna in June 2017.

Alongside the planning and reporting tools, Alma Mater requires teaching programmes to indicate if and to what extent their course units contribute to achieving one or more of the 2030 Agenda SDGs, as this helps to increase the awareness of the entire teaching community about sustainable development matters.





STUDENTS

TOTAL NUMBER OF STUDENTS ENROLLED (A.Y. 2017/2018)



STUDENTS ENROLLED IN DEGREE PROGRAMMES

(FIRST CYCLE, SECOND CYCLE, SINGLE CYCLE PROGRAMMES AND DEGREE PROGRAMMES UNDER THE PREVIOUS DEGREE SYSTEM)



IN THE CAMPUSES





STUDENTS ENROLLED IN THIRD CYCLE AND VOCATIONAL TRAINING (A.Y. 2017/2018)

3,609 Students



PhD candidates (of which 203 international)

Students in specialisation schools (data on medical specialization Schools are not included)

Students in professional master's programmes

Students in postgraduate/lifelong learning programmes

OVERALL STUDENT SATISFACTION*

| Students are generally satisfied with their degree programmes | Alma Mater | Mega Universities | Italy |
|---|---------------|----------------------|-------|
| | 89% | 87% | 88% |

EMPLOYMENT STATUS OF 1ST CYCLE DEGREE 2016 GRADUATES 1 YEAR AFTER GRADUATION*

| | Alma Mater | Italy |
|--|------------|-------|
| Either employed or unemployed and not seeking work | 85% | 79% |

EMPLOYMENT STATUS OF 2ND CYCLE AND SINGLE CYCLE DEGREE GRADUATES 1, 3 AND 5 YEARS AFTER GRADUATION*

| | | 2016graduates 1 year after graduation | 2014graduates 3 years after graduation | 2012graduates 5 year safter graduation |
|------------------------------------|------------|---|--|--|
| Either employed or | Alma Mater | 75% | 88% | 91% |
| unemployed and not seeking work | Italy | 73% | 85% | 89% |

* Source: Almalaurea

STUDENT SERVICES

The student services offered fully reflect the breadth and complexity of a multicampus university like the University of Bologna. The strengths of these services are found in the structures available for study and leisure activities, those that support students in difficulty and those that provide incoming orientation and careers guidance.

Libraries and reading rooms are available for individual and group study, with extended opening hours even at weekends and, in some cases, until midnight. These facilities are equipped with computer terminals and wi-fi. During their leisure time, students are able to benefit free of charge, or on special terms, from the cultural opportunities offered by the public facilities that have agreements with the University, as well as those organised by the student associations. Additionally, the University makes sporting facilities available because sports are seen as complementary to education.

The University also provides Services for students with special needs and/or specific learning difficulties. These guarantee a personalised approach that seeks to provide students with all the tools needed in order to complete their learning paths. In particular, the Psychological Support Service assists young people experiencing difficulties with University life due to emotional, interpersonal, behavioural or affective disorders.

A new service for international students was introduced in June 2018. The cross-cultural counselling service seeks to prevent particularly critical situations relating to adaptation, study, excessive demands and complaints, isolation, conflicts with other students and/or teachers, practical environmental problems, etc. by employing a cross-cultural approach.

Students can also make use of other specific services: Desk for advising on and registering rental contracts, Support service for the assessment of qualifications, healthcare

RIGHT TO HIGHER EDUCATION

The types of financial assistance disbursed to students are many and varied, and can be based on merit and/or income assessment.

A new system of tuition fees has been introduced from the 2017/2018 academic year, whereby all students pay with reference to their ISEE (family economic situation). Full exemption is granted for ISEEs up to €23,000.00. Above this threshold, the tuition fee increases in proportion, with special subsidies for the lowest incomes.





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assistance and the issue of study grants, and Service for the issue of tax codes, residence permits and visas for international students.

GUIDANCE

Guidance services are offered to students at all University campuses, covering both new students and leavers.

Guidance for future students focuses on orientation in order to make the best choice: this represents a set of tools and opportunities to facilitate entry into University life and participation in the learning process. The University is increasingly starting this process at secondary school level, for example TOLC restricted admission tests can be taken from the IVth year and students can participate in combined school-work projects.

The University of Bologna also offers tools and support to students and graduates in the delicate and complex phase of job applications and entry into the job market (careers guidance). In this way, students are helped to build their individual professional identities, to define their skills, aptitudes and aspirations, obtain information about job opportunities and develop job-seeking strategies. Workshops and seminars are available to help students get ready for job interviews, prepare and check their CVs, simulate assessments, seek work actively, access professional social networks etc.

Alongside these activities, the University promotes job placement initiatives via an updated approach to collaboration with businesses, in the broader context of so-called "third mission activities". These initiatives include creating opportunities for students/graduates to contact the world of work during career and recruiting days, some of which are sector specific.



346 STUDENT SUPPORT SERVICE GRANTS



GRANTS FOR STUDENTS IN UNDERPRIVILEDGED SITUATIONS



19,130 TOTAL OR PARTIAL EXEMPTION FROM TUITION FEES (INCLUDING THE EXEMPTIONS OF THOSE ENTITLED TO ER.GO STUDY GRANTS AND THOSE DERIVING FROM THE NEW STRUCTURE OF THE STUDENT FEES SYSTEM)



HUMAN RESOURCES

TOTAL OF TEACHING AND TECHNICAL-ADMINISTRATIVE STAFF 5,715 (JULY 2018)

TEACHING STAFF

Totale 2,748



TECHNICAL-ADMINISTRATIVE STAFF

Totale 2,967



FULL, ASSOCIATE AND ASSISTANT **PROFESSORS: 2018 RECRUITMENT PROCEDURES IN PROGRESS OR ALREADY** COMPLETED

During 2018, the University activated recruitment procedures to find 33 full professors and 27 associate professors. The number of fixed-term assistant professors (RTD) has also increased and the University now has 190 RTDa and 173 RTDb. The latter are expected to become stable members of the teaching staff.



ROMAGNA CAMPUSES PERSONNEL



TECHNICAL-ADMINISTRATIVE STAFF



PERSONNEL TRAINING

Professional training is a fundamental tool for improving the quality of the services provided. A total of 3,973 hours of training were provided in 2017 and 2,324 persons were trained. Overall, 49% of technical-administrative staff has attended at least one training or professional refresher course. The University continued to invest in health and safety during 2017, partly by strengthening the e-learning component; this targeted, in particular, those workers who have traditionally benefited less from the investment in training. The training provided to full professors, assistant professors and other types of worker (research fellows, PhD students on the staff etc.) has also increased, rising to about 37% of the persons trained during 2017.

ADVANCED TRAINING PROJECTS

The University supports the involvement of personnel in Advanced Training initiatives, as they are considered to represent tangible motivational and growth opportunities. During the 2017-2018 A.Y., 57 members of the technicaladministrative staff were enrolled on University degree programmes.

In addition, from 2006 to date, 239 persons have benefited from international mobility grants and, of these, 41 did internships in non-European environments. Furthermore, Master's degree or advanced programmes were funded for 47 members of staff.

DISABILITIES

The University dedicates special attention to persons with special needs or faced with difficulties and, drawing on support from political leaders, has promoted initiatives for their inclusion for many years. Among these, creation of the Inclusion and Job Protection Office is a prime example. The objective of this office is to facilitate targeted placements over the working lives of personnel, while also taking action to protect individuals, manage conflict and crisis situations, assist with the supply of aid etc. Alongside this, the policy of the University is to increase awareness in working environments and create a network of collaboration in order to implement a multi-modal approach to problematic situations.

The University also complies with the regulatory requirements regarding the right to work of persons with special needs (7% of recruitment is reserved for persons with disabilities, while 1% is reserved for other protected categories).

GUARANTEE COMMITTEE FOR EQUAL OPPORTUNITIES, EMPLOYEE WELLBEING AND NON-DISCRIMINATION AT WORK – CUG

Founded by the University at the end of 2013 and operational from January 2014, the CUG works actively on the development of an equal opportunities culture, the promotion of well-being at work and measures against discrimination in the workplace. In 2018, the Committee approved the positive action plan for 2018-2021, covering training, awareness and communication measures, the further protection and assurance of equal opportunities, and the promotion of employee well-being and a proper work-life balance. The Committee also seeks to activate and facilitate the work of all those University roles and bodies that seek to eliminate discrimination and improve wellness at work. Via H2020 PLOTINA, a European project coordinated by Alma Mater, the CUG promoted the publication and approval of a Gender Equality Plan (GEP 2016-20) in 2016 that it continued to monitor and promote throughout 2018.

GENDER REPORT

The Guarantee Committee for equal opportunities, employee well-being and non-discrimination at work (CUG) continues to invest in the annual publication of the Gender Report, with the dual objective of raising awareness within the University community about existing inequalities and monitoring periodically the impact of policies and the action taken to encourage equal opportunities. Against this background, the 2017 edition of the document proposed a summary index that other Universities might adopt, so their relative positioning on gender equality can be measured and compared over time. Given the initial iniquity common to all Universities, the UGII "University Gender Inequality Index" was created in order to express, as a single value, the University gender gap with respect to perfect parity. This index makes it possible to provide policy indications, enabling analysis of the various environments within the University to identify both strengths and the weaknesses that require investment, so the University can improve its positioning in equality terms.



PERSONNEL AND GENDER

On analysing the gender distribution amongst teaching staff, it was found that gender ratio varies according to role. Amongst technicaladministrative staff, the ratio is 2 women for every man.

TEACHING STAFF



Women



EDUCATION

The numerous, highly diversified courses listed in the University of Bologna's programme catalogue - including first and second cycle degree programmes and specialist postgraduate studies guarantee the personal and professional development of students. The value and quality of the courses offered is borne out by the increased number of enrolments in recent years.

Students can also make use of a wide range of services and facilities during their time at the University: welcome and orientation events, services to support the right to higher education of gifted students from underprivileged backgrounds, recreational and sports activities, language courses, assistance with international exchanges and study periods abroad, degree programme tutoring and help when entering the world of work.



or multiple degrees

or multiple degrees

DISTRIBUTION OF DEGREE PROGRAMMES





PROGRAMME CATALOGUE BY CAMPUS A.Y. 2018/2019

| CAMPUS | FIRST CYCLE DEGREE PROGRAMMES | SECOND CYCLE DEGREE PROGRAMMES | SINGLE CYCLE DEGREE PROGRAMMES | TOTAL |
|---------|-------------------------------------|--------------------------------------|--------------------------------------|-------|
| BOLOGNA | 63 | 77 | 9 | 149 |
| CESENA | 7 | 8 | 1 | 16 |
| FORLÌ | 6 | 12 | 0 | 18 |
| RAVENNA | 7 | 8 | 2 | 17 |
| RIMINI | 9 | 9 | 1 | 19 |
| Total | 92 | 114 | 13 | 219 |

UNIVERSITY LANGUAGE CENTRE

The University Language Centre runs language courses for University of Bologna students, international exchange students and staff. Courses include Arabic, French, English, Spanish, German and Italian for international students. The centre also provides support to students preparing for the language tests required at various levels and issues the language proficiency tests. It also organises the language proficiency tests for degree and exchange programmes, working together with the International Relations Division. Consistent with the University strategy of supporting the international nature of teaching, the Language Centre has - in addition to its extensive programme catalogue developed in recent years a specific project (AlmaEnglish) to provide classroom courses in English, without charge, leading to international certification in line with the levels recognised by the Common European Framework of Reference for Languages (CEFR).

ALMA MATHEMATICA

Alma Mathematica is a platform that provides online preparatory courses for entrance examinations requiring basic mathematical skills, or for making the necessary progress in mathematics to meet with Additional Learning Requirements.

MASTER'S DEGREE AND PROFESSIONAL TRAINING COURSES

The University of Bologna offers a wide range of Professional Master's Programmes and professional and multi-disciplinary courses, that represent an ideal way to complete the learning path. Designed for the purpose of creating new professional figures, the course structure diagrams are based on the real needs of the world of business. The University has activated 66 Professional Master's Programmes (25 in the medical area, 30 in the social area, 5 in the technicalscientific area, 6 in the humanities) and 37 post-graduate programmes, lifelong learning courses and summer and winter schools that award University educational credits. This range is further supplemented by many courses that do not award credits, but nevertheless promote the start of important paths that will result in considerable development of our third mission activities.

CAREER FLEXIBILITY (PART-TIME STUDENT)

Students regularly enrolled on a first-or second-cycle degree programme (excluding certain specific programmes) may extend the duration of their studies, taking longer than usual (two years instead of one) to complete their University career without being considered late or "fuori corso".

ISTITUTO DI STUDI SUPERIORI (INSTITUTE FOR HIGHER STUDIES)

The Institute for Higher Studies is a centre for international and inter-disciplinary excellence, where University and other residents engaged in studies and research meet and interact with professors, researchers and students for the benefit of all. The Institute takes care of students of the University who have been recognised as excellent following a suitable selection process. The level of the education is particularly high, due to the large number of international researchers who facilitate the transfer of knowledge drawn from their activities in important related areas, as is the quality of learning which is constantly monitored with reference to performance. The Institute for Higher Studies collaborates with all Departments, inter-departmental Research Centres and other University structures, while also participating in various international networks of similar Institutes with which methods, models and projects are shared. It consists of two sections: the Collegio Superiore and the Institute of Advanced Studies.

The Collegio Superiore uses a merit-based approach to select particularly bright and well-motivated students for inclusion in advanced learning paths with a strong interdisciplinary content. Currently the *Collegio* hosts 106 students and, during the 2018/19 A.Y., will offer 168 hours of curricular lessons, 160 hours of seminars and 60 hours of international conferences.

The Institute of Advanced Studies selects PhD students, PhD graduates and high profile academics from all over the world who are invited to Bologna by the University's own professors and researchers. It promotes the exchange of ideas and knowledge at an international level, constitutes a meeting point for Italian and foreign academics, promotes an interdisciplinary approach to research and teaching, and facilitates international mobility. From 2001 to date, the Institute has hosted a total of 314 academics drawn from 59 countries and has presented 192 lectures and 34 events, including the ISA Medal for Science, assigned to research fellows with an outstanding international profile, and the ISA Topic study and research projects, such as the 2018 series entitled "Game of Fears". ISA Bologna is an active member of NetIAS (Europe) and UBIAS (global), which are international networks of Institutes of Advanced Studies. The Institute is also a partner of EURIAS, a European project co-financed by the European Union as part of the Marie Curie programme.

BOLOGNA BUSINESS SCHOOL

The Business School is the University's point of reference for post-graduate managerial training. The internationally oriented programme catalogue, based on close and constant contact with the world of business, ensures excellent coordination with the University's academic organisation. The overriding priority of the Bologna Business School is to train a new generation of international managers, capable also of contributing to the development of businesses in the Emilia-Romagna region.

RESEARCH

In future, the strengths of research excellence will be found in a combination of subject specialisation and multi-disciplinary action, based on a broad understanding of the social challenges: the University has already adopted a strategy that seeks to develop these lines of action, partly by the creation of University Subject Groups that help Alma Mater to gain access to competitive financing via the alignment of vision and actions, both towards Europe and at regional and national level.

NETWORKING

The University of Bologna believes in the importance of contributing to the development of research policies and the defining of priorities. Accordingly, Alma Mater is actively involved in the principal local, national and European initiatives in the various areas of research to which the University is committed, contributing:

- to the activities of the European Innovation Partnerships (EIP), which bring together key players working to solve the principal social challenges identified by the European Commission, and numerous networks seeking to distil the vision and commitment of sector leaders regarding the direction in which research needs to go. In particular, since 2017 the University has been part of the European Alliance for Social Sciences and Humanities, which promotes this activity as a resource for Europe and the world;
- to the promotion of public debate on research policies, creating stable occasions for discussion with

the academic world and others in order to stimulate innovation, especially via the Guild of Research-Intensive Universities;

- to the definition of joint research agendas and new projects via the Joint Technologies Initiatives (JTI), Joint Undertakings (JU) and Public Private Partnerships (PPP) that finance research and innovation; Knowledge and Innovation Communities (KICs) for the development of research, higher education and entrepreneurship; Joint Programming Initiatives (JPI) and PRIMA, for the planning and implementation of national-level research within a common European vision;
- to the action of ten national Clusters and seven local ER-Clusters, as well as to the Emilia Romagna Network of Advanced Technologies with seven Inter-departmental Industrial Research Centres (CIRI), contributing to the development of industrial research, training and technology transfer in various technological areas at both regional and national level.

COMPETITIVE FINANCING

> 5.7

> 17.6

million EUR

million EUR

>71.9 million EUR

- (under evaluation).
- Entrepreneurship)



As a natural place of knowledge and scholarship, Alma Mater Studiorum - Università di Bologna must interpret and provide guidance in the changes of today, by guaranteeing the development, innovation, transfer and enhancement of knowledge to the benefit of individuals and society as a whole.

University Statute, Constituent Principles, Art. 1, para. 4



MILLION EUR FROM COMPETITIVE PROJECTS IN 2017

175 + 22 research projects financed by the European Union in the context of H2020, which create a network of more than 1,900 partners, including over 830 in the private sector. 22 projects financed by the Interreg, Life 2014-2020, Creative Europe and COST programmes, with a network of more than 180 partners, including 36 in the private sector.

72 PRIN 2015 projects financed by MIUR, including 25 coordinated nationally by the University (1st equal in terms of number of projects; 11% funding success rate for projects presented by the University as national coordinator). With reference to the PRIN 2017 call, the University has presented 732 projects, including 233 as national coordinator

80 research projects financed by Emilia-Romagna (33 in the context of the 2014-2020 PORFESR Laboratories call; 4 strategic industrial research projects in the context of actions 1.2 and 1.3 of the 2011-2013 Energy Plan; 24 in the context of the Rural Development Plan 14-20 measure 16.1-Call 2016, 8 in the context of the Rural Development Plan 14-20 measure 16.1-Call 2017, 11 in the context of the First Invitation to present projects under the Three-year Advanced Skills Plan for Research, Technological Transfer and

OUTSTANDING DEPARTMENTS

Alma Mater leads Italy with 14 'Outstanding Departments' financed in the context of the MIUR initiative funded in the 2017 National Budget.

Over 113.8 million euro will be dedicated over five years to strengthening and promoting the excellence of research, with investment in human capital, research infrastructure and post-graduate teaching activities.

- Architecture
- Chemistry "Giacomo Ciamician"
- Classical Philology and Italian Studies
- Civil, Chemical, Environmental, and Materials
 Engineering
- Electrical, Electronic, and Information Engineering
 "Guglielmo Marconi"
- Modern Languages, Literatures, and Cultures
- Psychology
- Management
- Biomedical and Neuromotor Sciences
- Economics
- Legal Studies
- Veterinary Medical Sciences
- Political and Social Sciences
- Agricultural and Food Sciences

UNIVERSITY FUNDING

- 15 million euro allocated to the funding of PhD student scholarships in the 34th cycle.
- 12 million euro to Departments in the context of the combined research budget;
- 2 million euro per annum for five years for Departmental Strategic Development Projects (PSSD initiatives), which finance 14 projects promoting the development of Departments across the University, applying quality management processes and consistent with the University Strategic Plan.
- 2 million euro for 100 projects (60 "senior" and 40 "junior") under the call for projects entitled "Alma Idea – Funding for Pure Research".
- 2 million euro for funding and renewing equipment for scientific research, promoting the sharing of infrastructure and laboratories, and facilitating the integration of research group skills, under the Alma Equipment call.

PHD AND FELLOWSHIP

EMPLOYMENT STATUS OF PHD

| Employment status | i year aner FhD | 5 years after P |
|-------------------|----------------------------------|---------------------------------|
| | Doctors 2017 1 year after PhD | Doctors 2013 5 years after P |

2018 survey on employment status of PhD (Alma Mater Studiorum - Università di Bologna in collboration with AlmaLaurea)

For Alma Mater, investment in research means investing in young people: about 15 million euro was allocated to the funding of PhD student scholarships in the 34th cycle, resulting in more than 250 awards. The sources of this money included 500,000€ from the 2015 "5 per thousand" campaign for funds from the allocation of income tax receipts. In addition, the direct funding of University structures and external bodies exceeded 7 million euro for 120 study grants; 1.2 million euro came from the Outstanding Departments; and about 1.2 million euro was sourced from the Emilia Romagna Region Advanced Skills call in the context of the POR FSE. In total, more than 410 study grants were made available in the 34th cycle.

Alma Mater has accredited 47 PhD programmes for the 34th cycle (2018/2019 A.Y.), of which: 8 under agreements or together with other Universities and public and private research bodies, 9 industrial doctorates, 8 inter-sector doctorates and 4 with post-graduate apprenticeship contracts.

Various new agreements were signed with strategic international partners during 2017, including Polytéchnique de Montréal – Canada and Universidade de Sao Paulo (Brazil), as well as 39 co-tutorship agreements, comprising 22 outgoing in favour of PhD students enrolled at the University of Bologna, and 17 incoming in favour of PhD students enrolled at foreign Universities, and a co-tutorship framework agreement with the University of Oslo (Norway). Cooperation with China (China Scholarship Council) and Brazil (CAPES and CNPq) has continued, with the matriculation of foreign PhD students

SCIENTIFIC PRODUCTION

The University has systematically monitored its scientific production since 1997. Records were computerised in 1999 and are updated freely by professors and research fellows via input to dedicated software written by Cineca: the Institutional Repository (IR) module of the IRIS suite gathers the data on scientific production at the University and allows full-text management of the contributions on an open-access basis.

Analysis of the Essential Science Indicators in InCites regarding scientific production in the period 2008-June 2018 shows that the University is cited heavily in almost every discipline (20 out of 22) and that 752 articles written by University researchers are highly-cited papers, i.e. included in the top 1% of works cited at global level and/or having a particularly large number of citations in the past two months (hot papers). With regard to the Scopus data (Elsevier, March 2018), more than 5,000 publications in the IRIS catalogue for the years 2014/2017 are indexed and fall into the excellent top 10% band. The overall progress made by scientific production during the three-year period 2015-2017 was positive and improving.

| 2015 | 2016 | 2017 |
|-------|-------|-------|
| 8,808 | 8,844 | 9,125 |





INTERNATIONAL PHD STUDENTS AND FELLOWS







THIRD MISSION

The University of Bologna invests in relations with businesses, stimulating the emergence of an ecosystem of innovation that facilitates both economic and social growth.

INDUSTRIAL RELATIONS

Alma Mater is pursuing a pro-active policy of medium/ long-term engagement and partnership with large enterprises, associations and business networks at regional, national and international level. The idea is to leverage the excellence of the University and the territory, consistent with regional and national innovation priorities, and to pursue a strategy designed to promote university-business opportunities in every area (from research to the transfer of knowledge, from entrepreneurship to work orientation and job placement, from the co-design of learning paths to continuing education for firms).

Currently, the University has 25 active framework agreements with major enterprises in the principal value chains (energy, ICT, chemicals, finance, automation). With regard to placement services, more than 2,800

Italian and international firms were registered in 2017 to publish job opportunities on the on-line notice board and access the CVs of graduates: in 2017 more than 2,000 opportunities were published and over 29,400 CVs were consulted by the firms. This trend is rising constantly: about 2,500 opportunities were published between January and

| _ | |
|---|---|
| | 29.1 MILLION EURO IN 2017 FOR COMMISSIONEE RESEARCH (NET OF THE VAT COLLECTED) |

August 2018, the number of registered firms rose to 3,600 and more than 21,000 CVs were downloaded. Over 250 firms in 2017 and more than 150 in 2018 (partial data) participated in meetings between graduates and the job market (School events, Campus initiatives, Career Day, Recruiting Day, company presentations).

1 COMPETENCE CENTER in the context of the National Plan "Industry 4.0", with a public-private partnership comprising 61 actors led by the University of Bologna. BI-REX (Big Data Innovation & Research EXcellence) is among the eight selected by MISE.

SPIN-OFFS

The University of Bologna has 31 active and accredited spin-off businesses, including 1 that involves direct equity participation, 9 via Almacube and 2 supported by specialists in early-stage investments. These 31 businesses generate revenues of more than 8.9 million euro (2017) and have over 90 employees.

ENTREPRENEURSHIP DEVELOPMENT AND INCUBATION

Almacube, the University business incubator, certified by MISE, managed the activities of 17 firms in 2017, including 9 spin-offs in which ownership interests are held. Cesenalab and Rimini Innovation Square support the development and incubation of firms at Campus level.

NEW ENTREPRENEURSHIP INITIATIVES

Start up day: this event brings together start-uppers (students with entrepreneurial ideas) and players (students who make their skills available to one or more start-uppers). During this event, students can interact with entrepreneurs, local associations/bodies that assist entrepreneurs and potential institutional investors. Over 2,000 participants attended the fourth edition of the event, which attracted 392 business proposals.

PdAI (Business Start-Up Programme), an advice service for the creation of business teams, run in collaboration with AlmaCube.

AlmaEClub: inter-disciplinary club for professors and researchers at the University of Bologna that supports the development of an entrepreneurial culture. Discussions, meetings and exchanges of ideas to promote debate, learning and planning in the areas of academic entrepreneurship.

Basement Club: a project in Cesena and Forlì Campuses for students and graduates to support entrepreneurship culture and start up initiatives.

PATENTS AND LICENSES

The University of Bologna filed 99 new patent applications in 2017, of which 25 are first filing, thereby giving rise to an active patent portfolio of 370 patents (updated to 31/12/2017) related to more than 140 inventions. It also has an active portfolio of 21 patented plant varieties, 80% of which valorised through outlicensing at international level.





UNIVERSITY LIBRARY SYSTEM

The Library System is the coordinated set of libraries and facilities that provide bibliographic and documentary services to the University. It comprises 28 libraries with a total inventory of 4 million volumes and 8,000 journal subscriptions, with over 5,300 workstations for study and research. As well as the standard library services, it also provides access to 680 data banks, 47,000 online periodicals, and 190,000 e-books. The collections of the University of Bologna Library are priceless, and also include 12,850 manuscripts, including the oldest known complete Torah scroll.

UNIVERSITY MUSEUM SYSTEM

The University Museum System comprises fourteen structures counting both Museums and Collections - dedicated to various disciplines.

On the one hand, the University Museum System dedicates substantial space to the education of students of all subjects, at all levels, and to the safeguarding of assets by conserving, restoring and cataloguing them, in order to ensure that collections can be enjoyed and used for research, study and other purposes; on the other, it promotes public engagement and the dissemination of scientific culture, in many cases in collaboration with public and private institutions, both at home and abroad.

FEDERICO ZERI FOUNDATION

This centre for research into and specialist training in the History of Art, established to protect and disseminate the works and personality of Federico Zeri, conserves and promotes his extraordinary bequest: an Art Library (46,000 volumes and 37,000 auction-house catalogues) and a Photographic Library (290,000 photographs). The Photographic Library is now also available on-line, in a database considered to be the most important collection of Italian art present on the Internet, with more than 160,000 images available free-ofcharge from the Foundation's website. Intensive training was also provided to graduate students, with seminars, courses and summer schools addressing the history of art and the cataloguing of the photographic archives.

LUISA FANTI MELLONI FOUNDATION

This foundation promotes research into heart attacks, cardiology and related disciplines; each year graduation prizes are awarded to the best students at the University of Bologna with dissertations on heart attacks or coronary heart disease, together with PhD scholarships for young researchers at the University of Bologna in the field of cardiology.

FOUNDATION FOR URBAN INNOVATION

Established together with the Municipality of Bologna, this foundation promotes activities in the public interest in the field of urban transformation and innovation, with a particular focus on topics of interest to citizens and the University, including development of the territory and local communities, urban planning and regeneration, environmental sustainability, the resilient city, the urban economy and technological innovation.

PUBLIC ENGAGEMENT

There are strong ties between the University of Bologna and the territories that it serves, as confirmed by the large number of events (presentations, shows, seminars, ceremonies etc.) promoted and held each year in the various campus towns, many in collaboration with other local organisations.



In particular, the relationship between the Municipality of Bologna and the University focuses on the process of upgrading the University area and promoting its use. As part of this process, special importance is attached to use of the University grounds (especially the courtyards within Palazzo Poggi and Piazza Scaravilli) for summer cultural initiatives and events that complement the summer programme of the Municipality. Various cultural event boards have been promoted since summer 2016 (Zambe in 2018), attracting large crowds and achieving good results. The summer programme has extended into the winter months, with an events board entitled La via Zamboni. From 2017, these activities are supported by Rock, a European project representing further collaboration between the University and the Municipality of Bologna, whose initiatives seek to involve both the student population and local residents.

The European Researchers' Night is a European Commission initiative, held on the same day throughout Europe, that encourages researchers to meet the public for an evening of science laced with fun. The University of Bologna participated in the initiative held on 28 September 2018, with 300 researchers involved in almost 100 activities, including experiments, workshops, meetings and guided tours.

Unijunior is a European project for communications and the dissemination of knowledge to young people (8-14 years), to whom University teachers deliver academic-style lectures, free of charge, on subjects relevant to their learning and research activitie

(UniboMagazine: 1 Jan. - 31 Aug. 2018)



SOCIAL ENGAGEMENT

AlmaEngage is responsible for the virtual coordination of development cooperation activities carried out at local and international level. This project is part of a broader process of opening up to the outside world, with the sharing and transfer of knowledge for the benefit of society. The organisation promotes and standardises the initiatives already planned, while also devising and implementing new initiatives intended to raise public and academic awareness about development cooperation matters.

As part of the activities of AlmaEngage, the University of Bologna collaborates with international NGOs to offer students the chance to round off their University careers with direct experience in the field of development cooperation. In terms of promotion and communication, the University has recently curated a photographic exhibition illustrating its development cooperation projects around the world.

For the University of Bologna, development cooperation is a fundamental activity that unites three central elements of its identity: internationalisation, third mission and social commitment.

The Alma Mater academic community has worked on cooperation projects for many years, operating both locally and in various geographical areas around the world.



| Western Balkans | 4 |
|-----------------------------|---|
| North Africa | 3 |
| Middle East and Gulf region | 5 |
| Central and South America | 7 |
| Asia | 4 |
| Subsaharian Africa | 6 |



UNIBO4REFUGEES

The doors of the University of Bologna are now open to refugee students with the Unibo4Refugees project. In orientation interviews, students get the chance to submit their CVs, find out about the opportunities for study and financial aid and draw up an educational plan for rebuilding their future. Even before obtaining refugee status and without having to pay enrolment fees, students can enrol in single learning activities and attend Italian language courses. Enrolment in degree programmes is made easier thanks to special procedures for checking academic qualifications and admission requirements, obtaining study grants and getting exemption from fees.

AN OBSERVATORY FOR THE THIRD MISSION

The University established the Observatory for the assessment of the Third Mission in 2018. The task of this commission is to collect, analyse and promote all the third mission activities of the Alma Mater, guaranteeing the quality of the actions taken and facilitating the convergence of individual behaviours with the objectives of the Institution.





INTERNATIONALISATION

Students' mobility: from Bologna to Europe (Erasmus+) The arrows are proportional to the number of students from each country



Students' mobility: from Europe to Bologna (Erasmus+) The arrows are proportional to the number of students from each country



EUROPE

The University of Bologna holds first place among Italian Universities in terms of the number of students abroad and the quantity of funding received under Erasmus+ and is among the top 5 universities in Europe in terms of number of exchange students. In addition, the Alma Mater has distinguished itself through a series of best practices: a high number of graduates with mobility experience, a high rate of credit recognition, an increase in the level of language skills and reinforcement of international cooperation. The University coordinates or participates in more than 60 education and training projects funded by the European Union, with the overriding objective of improving University education and, in general, training at all levels. This effort includes various international initiatives, such as the development of joint degree programmes and new teaching methods via the use of new technologies, as well as the design of new learning paths in order to develop the transverse, social, intercultural and international competencies of students.



NORTH AMERICA

Academic relations have been reinforced and developed to the extent that there are now 250 active agreements, under which our University welcomes 280 students each year while, at the same time, enabling 100 Bologna students to study with our partners.

A number of US Universities have established Centres in Bologna. They provide important support, in terms of social and cultural cohesion, for the US students studying in Bologna, as well as guidance for Bologna students who intend to study at partner Universities in the United States. These Centres are: Bologna Consortial Studies Program (B.C.S.P.); University of California, Dickinson College, Brown University, Eastern College Consortium (E.C.C.O.). Johns Hopkins University, which collaborates constantly with Alma Mater on teaching matters, also has its own 'Bologna Center'.

The strong teaching and research synergies with this geographical area are further confirmed by the summer/ winter schools that we organise periodically with our partners there. In addition, the quality of our relations has resulted in a number of outstanding initiatives: 'The Academy of Global Humanities and Critical Theory' and 'Fulbright Lectureship'. The Academy of Global Humanities and Critical Theory, being a collaboration of the University of Bologna with Duke University and the University of Virginia, is conceived as a place for thought and research by academics from various scientific disciplines and geographical areas, who seek to redefine the study of humanities and critical theory in a global world. Alma Mater has signed an agreement with the Fulbright Commission for the creation of three Fulbright Lectureships in three subject areas (Health & Biotechnology; Sustainability & Circular Economy, Big Data) for the three academic years from 2019/2020 and 2021/2022. This initiative is part of the Fulbright US Scholar Program.

Tot.

376

Tot.

814

SOUTH AMERICA

Relations with the Universities in Latin America have developed steadily in recent years, consolidating our relations with many countries in the area, including Central America. The number of framework and sector agreements has increased, along with the volume of students on mobility programmes due to the growing number of locations available and further diversification of the destination countries. Various European education and training projects encourage and develop relations with the Latin American Universities: service platforms for students with special needs (MUSE), harmonisation of the curricula adopted in Central America via an agreed framework of qualifications (HICA), strengthening of the tools available for the international mobility of students and professionals (Caminos and Recolatin). The various capacity-building actions include projects for the training of new managers designed to strengthen collaboration among Universities, industry and society, with a new Professional Master's Programme (EULA_GTEC) and the implementation of a new interdisciplinary and intercultural Master's Programme (OPT_ IN), via the sharing of such competencies as comparative, transnational and community law. The new VITA-GLOBAL capacity-building project, in which the University is an active partner, was funded during 2018. The objective is to develop a network of Universities in various geographical

AFRICA AND MIDDLE EAST

Activities involving this region intensified during 2018. Two European capacity-building projects commenced, one to modernise the professional curricula in Lebanon and Syria on the management of NGOs, and the other to strengthen the governance and international relations of Universities in Iraq. The Erasmus+ capacity-building projects also continued, together with the projects financed by the Italian Agency for Development Cooperation. These included projects with Iragi partners for the development of degree programmes in archaeology and the protection and promotion of cultural heritage; with Moroccan, Tunisian and Algerian partners for the modernisation of internationalisation and exchange systems; with Lebanese Universities to strengthen student participation; with Egyptian Universities for the teaching of foreign languages, and with Tanzanian and Palestinian organisations in the areas of veterinary science and engineering. Additionally, 2018 saw the launch of a training project for professionals in the sustainable tourism sector drawn from the Mediterranean area (NEST), which is co-financed by AICS.



Students' mobility:

From Bologna to the World

From the World to Bologna

The King Abdul Aziz Chair continues to promote research into Arab and Islamic sciences via publications, scientific research, translations, training and artistic and cultural initiatives. Lastly, two new framework agreements have been signed in Sub-Saharan Africa (University of Pretoria, South Africa; Université Cheikh Anta Diop de Dakar, Senegal), which will result in the start of student mobility from the 2019/2020 academic year.

WESTERN BALKANS, NEAR EAST, RUSSIAN FEDERATION

Institutional relations are being strengthened with various institutions in the Western Balkans and the Near East, the Caucasus and the Russian Federation, reflecting the growing number of international students enrolled from those countries. In 2018, the University of Bologna obtained more than 50 Erasmus+ study grants for mobility to/from the countries in this area, and was included in various capacity-building activities financed by the EU, including: "Enhancing Teaching Practice in Higher Education in Russia and China" – ENTEP; 'Western Balkans Urban Agriculture Initiative' - BUGI with the Universities of Bosnia and Herzegovina, Montenegro and Kosovo; 'GRaduates Advancement and Development of University capacities in Albania' - GRADUA; and the cross-regional project on 'Integrating education with consumer behaviour relevant to energy efficiency and climate change at the Universities of Russia, Sri Lanka and Bangladesh - BECK'. The activities of the Uniadrion network, involving cooperation among Universities on both sides of the Adriatic, have continued in response to the launch of the new Adriatic-Ionian macro-region. Bologna held the Chair of the network during 2018 and organised the general meeting held in May. UNIADRION also took part in the third EUSAIR (EU Strategy for the Adriatic and Ionian Region) Forum held in Catania and the first Joint Conference of the Forums of the Adriatic and Ionian Chambers of Commerce held in Spalato. Furthermore, Uniadrion is a partner in the Al-NURECC initiative (Adriatic-Ionian Network of Universities, Regions, Chambers of Commerce and Cities), within which it organised a Summer School in Ancona on the subject of migration in the Balkans.

The Regional Centre for the conservation, management and promotion of cultural heritage was opened in Yerevan in July 2018. This centre reflects a collaboration between the University of Bologna and the Ministry of Culture of the Republic of Armenia, with support from the Italian Agency for Development Cooperation (AICS). The project, supported also by the Italian Embassy in Armenia, involves 4 structures (Cultural Heritage, as project leader; Architecture; History and Cultures; Centre for Advanced Studies in Tourism) that make available their skills in the cultural heritage sector to promote, with advanced tools and methodologies, the cultural heritage of Armenia.



ASIA

The number of positive teaching and scientific collaborations with Asian Universities is increasing, with a focus on the People's Republic of China, Japan, the Republic of Korea and India. South-East Asia, especially Singapore, Vietnam and Myanmar, represents one of the more significant and unusual investments made by Alma Mater. In this area, the University is working on cooperation and capacity-building activities designed, on the one hand, to modernise their University systems and strengthen their internationalisation strategies and, on the other, to improve the quality of teaching. In this regard, the University is coordinating the following two European projects: 'Connecting Higher education Institutions for a New Leadership On National Education" - CHINLONE, with the involvement of Myanmar institutions, and 'TOOLKIT - Designing and managing international relations, educational projects and mobility schemes in Asian Universities' (Myanmar, Laos and Sri Lanka).

Student and academic mobility is encouraged by the Erasmus+ International credit mobility programme, which in particular involves Universities in Myanmar, Vietnam and Macao.

The University of Bologna is also an active partner in other capacity-building projects in Asia: "Tuning India"; "Resources for Interculturality in Chinese Higher Education" - RICH-Ed; "Enhancing Teaching Practice in Higher Education in Russia and China" - ENTEP (already mentioned in the previous section); 'Integrating education with consumer behaviour relevant to energy efficiency and climate change at the Universities of Russia, Sri Lanka and Bangladesh - BECK' and 'Formation of Teachers in Emerging Challenged Areas in the Philippines - FORTH'. The University also has one of the most active Confucius Centres. The local relations of more than 800 Chinese students in Bologna are supported by the China Association College, which was founded in 2005 with a view to promoting Italo-Chinese cultural exchanges. Alma Mater participates in the Sino-Italian Campus at Tongji University in Shanghai, which represents the first inter-governmental initiative between Italy and China in the area of University cooperation, with a view to establishing integrated double degree programmes.

OCEANIA

Relations with Universities in Australia and New Zealand, which date back to the late 1990s and early 2000s, have intensified over the past year, with new framework agreements (and an increase in the number of two-way student exchanges involving the Universities there). In 2017, the University of Bologna obtained various Erasmus+ mobility grants for study purposes and for staff teaching/ training for a project with Australian Universities, which will be completed in July 2019. These intense relations with Australian Universities have resulted in the creation of a number of summer/winter schools.summer/winter schools.

DIGITAL TECHNOLOGIES

SYSTEMS AND INFRASTRUCTURE

With its multi-campus structure, the University of Bologna has more than 150 locations that are interconnected and linked to the Internet by over 600 km of optical fibre. Students and personnel have more than 1,300 WiFi access points available to them. The two server farms, with more than 650 virtual servers and 1.5 petabytes (1,500,000 gigabytes) of hard disk space, support 147,479 institutional mailboxes that process about 50 million e-mails every year. With a view to reducing the economic and environmental impact of movements between the various locations, the University of Bologna has decided to promote and increase the video-conferencing services offered, which now count 3,200 hours of conversation.

DIGITALISATION AND DEMATERIALISATION

The commitment of the University of Bologna to reducing the environmental impact and increasing the efficiency and timeliness of procedures is evidenced, in part, by the digitalisation of processes and documents and the use of dematerialisation technologies. Investment by the University for this purpose has involved not only the administrative activities involving students, such as entrance exams, matriculation and graduation, but also such complex administrative procedures as the management of teaching contracts and new electronic signatures for University personnel. The mere dematerialisation of teaching assessment questionnaires avoided the printing, distribution and digitalisation of about 274,000 questionnaires.

40,010

ONLINE

MATRICULATIONS



437,650

EXAM DIGITAL

TRANSCRIPTS



12,740

DIGITALLY

MANAGED

REGISTERS



74,438

ENTRANCE EXAM

ENROLMENTS SUBMITTED

ONLINE







19,507

DEGREE

APPLICATIONS

SUBMITTED

ONLINE



469,090

ONLINE

CERTIFICATES

WITH DIGITAL

ENDORSEMENT



271,987

DIGITALLY REGISTERED DOCUMENTS

WEB AND SOCIAL MEDIA

As a member of the Public Administration, the presence of the University on the web has always been among the most significant at national level. The University continues to expand its web visibility, providing students and staff with Internet and Intranet tools for the creation of content and access to new services. Alma Mater is also strengthening the institutional communications on social media, with a view to reaching students, staff and citizens in a more effective manner. A MOOCs platform was activated in 2017, achieving over 6,000 registrations in just 6 months. In order to help students choose the University curriculum most suited to their needs, Alma Mater has launched myAlmaOrienta, which is the first App to provide entry guidance to potential students. The App presents the 2018/19 programme catalogue, facilitating the comparison of various degrees and registration for guidance events like Almaorienta and open days. To date, the App has been installed by over 18,000 users.



The University undertakes to simplify administrative procedures in order to promote access to its research and learning programmes by individuals and institutions from all countries.

The University implements the educational guidelines of International Organisations within its own teaching initiatives.

University Statute, Policy Principles, Art. 2, para. 5







SUSTAINABILITY AND CONSTRUCTION

CONSTRUCTION - THE MULTICAMPUS MODEL

The University model adopted by Alma Mater is unique at both national and international level. Our roots are found in the locations where this process began, as an integral part of our nature. As envisaged in the Mandate Plan, the University comprises 13 districts in the Municipality and Province of Bologna (Poggi, Zamboni, S. Giacomo, South East, North West, Filippo Re, Sant'Orsola, Risorgimento, Terracini, Navile, Fanin, Ozzano dell'Emilia and Imola) and 4 campuses in the Romagna area: Forlì, Cesena, Rimini and Ravenna.

The model on which this modern arrangement is based is best described as multi-campus, or rather, a multicentre structure in which the different vocations of the various social contexts of which the University is a part are combined.

The University, which covers a surface area of 1,162,506.81 square metres, has a development and consolidation plan that continues to be implemented on the various sites.

GEOGRAPHICAL DISTRIBUTION OF BUILDINGS

The data refer to the indoor surface area of the buildings and do not include outdoor areas.



THE MOST IMPORTANT WORKS IN FIGURES

| WORKS IN PROGRESS | USE | TOTAL (MLN EUR) | AREA (M²) |
|---|--|--------------------|--------------|
| Navile district complex | Departments of: Chemistry "Giacomo Ciamician" Industrial Chemistry "Toso Montanari", Pharmacy and Biotechnologies, Physics and Astronomy (in partnership with the National Astrophysics Institute), Astronomical Observatory | 104 | 40,000 |
| Students' residences and university buildings in the "former Lazzaretto Bertalia" area, Bologna | Department of Industrial Engineering, 2 students' residences (380 accommodation units),1 services building (classrooms, laboratories and students' area) | 44.6 | 25,000 |
| Upgrading of the "former Croce Rossa", Bologna | Classrooms and students' residence | 3 | 2,000 |
| New campus for the School of Engineering and Architecture, Cesena ("former Zuccherificio") | School of Engineering and Architecture, Departments of: Architecture, Electricity and Information Engineering "Guglielmo Marconi", Computer Science - Science and Engineering | 30 | 15,000 |
| TOTAL | | 181.6 | 82,000 |



SUSTAINABLE MULTI-CAMPUS

The University of Bologna invests in sustainable development and takes concrete steps to promote, plan and implement actions and projects designed to harmonise the relationship between space, the environment and people. In order to disseminate a true culture of sustainability, Alma Mater promotes and consolidates the adoption of sustainability principles in the performance of its functions and supplementary learning activities at Multicampus level.

With a view to reducing the environmental impact of the University and improve the quality of life in University areas, measures have been designed to leverage the advantages of the territory, guarantee the protection and renewal of natural resources, promote the improvement of social well-being and encourage the adoption of ever more responsible lifestyles. In this way, the University of Bologna pursues the objectives of:

- interpreting the characteristics and needs of and changes in the surrounding environment, thus enhancing its potential;
- guaranteeing economic sustainability and social fairness for all users;
- satisfying the needs of the University community, while welcoming and respecting all forms of diversity;
- enhancing the social and cultural identities of persons and the territory.

The sustainability principles are therefore encouraged and disseminated by governance, teaching and research activities, as well as by administrative, building and logistics support, in order to include this work in the actions and behaviours of all primary stakeholders: students, teachers and technical-administrative staff.

ACTIONS

The actions envisaged are aimed at improving behaviours, practices and techniques.

| d-8 | MOBILITY SOLUTIONS AND INCENTIVES FOR USING SUSTAINABLE MEAN |
|-----|--|
| | REDUCED ECOLOGICAL FOOTPRINT OF THE UNIVERSITY |
| ġ. | INCREASED USE OF RENEWABLE SOURCES FOR PRODUCING ENERGY |
| | ELECTRICAL CONVERSION OF COMPANY VEHICLES |
| 20 | REDUCED OPERATING COSTS OF AREAS |
| | CARE FOR THE BUILT-UP ENVIRONMENT |
| Ţ | ENVIRONMENTAL PROTECTION OF THE SITES |
| | UPGRADING AND NEW DESIGN OF PARK AREAS |
| | SOCIAL RESPONSIBILITY ACTIONS FOR HUMAN WELLBEING |

The involvement of the University community, together with the activities of our territorial stakeholders, guarantees that the desired actions take place in a multicampus dimension.

The Sustainable Multicampus projects fall within this framework, seeking to develop building environmental protection activities within a sustainable community model.

The four areas addressed are:

- **Energy**: clear reduction in the environmental footprint of Unibo, with actions focused on energy saving, the retrofitting of existing buildings, domotics and the remote control of buildings.
- Mobility: in order to guide the Unibo community towards the use of suitable forms of transport, employees and students are encouraged to use bicycles, trains and local public transport and reduce their recourse to private cars, in part by car sharing, both for private and work-related travel.
- Environment: with a view reducing the environmental impact of University activities and consumption, measures seek to promote natural resources and green spaces, partly by targeted construction work in areas surrounding the University.
- **People:** in order to contribute to improving the quality of life, the measures adopted seek to encourage the adoption of more responsible lifestyles: proper eating and physical activity, ethical standards and gender equality.

ANS OF TRANSPORT DIRECTED AT STUDENTS AND STAFF



SOCIAL AND FINANCIAL REPORTING

FINANCIAL STATEMENTS - 2016 - 2017

| ASSETS (MLN €) | 2016 | 2017 | LIABILITIES (MLN €) | 2016 | 2017 |
|---|---------|---------|--|---------|---------|
| FIXED ASSETS | 393.2 | 420.8 | NET WORTH | 418.2 | 341.9 |
| Intangible | 26.6 | 34.5 | Endowment fund | 49.3 | 49.3 |
| Tangible | 326.7 | 346.2 | Restricted funds | 335.4 | 260.4 |
| Financial | 39.9 | 39.9 | Non-restricted funds | | |
| | | | results brought forward | 25.6 | 23.0 |
| | | | results for the year | 7.9 | 9.2 |
| CURRENT ASSETS | 608.8 | 610.7 | PROVISIONS FOR RISKS AND CHARGES | 37.4 | 46.1 |
| Debtors | 127.4 | 173.8 | EMPLOYEE LEAVING INDEMNITIES | 0.5 | 0.5 |
| Liquid funds | 481.4 | 436.8 | Creditors | 112.3 | 108.0 |
| ACCRUED INCOME AND PREPAID EXPENSES | 2.7 | 2.1 | ACCRUED EXPENSES, DEFERRED INCOME AND INVESTMENT GRANTS | 346.9 | 436.7 |
| | | | DEFERRED INCOME RELATING TO PROJECTS AND RESEARCH IN PROGRESS | 89.4 | 100.4 |
| TOTAL ASSETS | 1,004.7 | 1,033.6 | TOTAL LIABILITIES AND NET WORTH | 1,004.7 | 1,033.6 |
| Asset memorandum accounts | 508.6 | 518.9 | Asset memorandum accounts | 508.6 | 518.9 |

The 2017 income statement is set out below in the format required by Min. Decree 19/2014

| 2017 INCOME STATEMENT (MLN €) | |
|--|---------|
| OWN INCOME | 169.2 |
| GRANTS | 439.9 |
| OTHER INCOMES | 45.4 |
| TOTAL INCOME (A) | 654.5 |
| PAYROLL COSTS | 394.4 |
| OPERATING COSTS | 199.4 |
| DEPRECIATION AND IMPAIRMENT | 19.1 |
| RISK FUND | 23.4 |
| OTHER CHARGES | 9.0 |
| OTAL COSTS (B) | (645.3) |
| DIFFERENCE BETWEEN TOTAL OPERATING INCOME AND COSTS (A- B) | 9.2 |
| INANCIAL INCOME AND CHARGES (C) | (1.1) |
| adjustments to financial assets (d) | - |
| NON-RECURRING INCOME AND EXPENSE (E) | 1.8 |
| Results before taxation (A - B + - C + - D + - E) | 9.9 |
| CURRENT INCOME TAXES AND CHANGE IN DEFERRED TAXATION | 0.7 |
| RESULTS FOR THE YEAR | 9.2 |

As required by Ministerial Decree 21 dated 16 January 2014, from 2014 University costs must be reclassified into their component missions and programmes.

| MISSIONS | PROGRAM | 2017 RECLASSIFIED COSTS (MLN €) | |
|---|--|------------------------------------|-------|
| | Pure scientific and technological research | Basic research | 234.3 |
| Research and innovation | Applied scientific and | R&D for economic affairs | 22.4 |
| | technological research | R&D for healthcare | 20.5 |
| | University system and postgraduate studies | Higher education | 237.0 |
| University education | Right to Higher Education | Ancillary education services | 0.5 |
| | Healthcare support | Hospital services | 12.2 |
| Safeguarding of health | Veterinary support | Public healthcare services | 0.3 |
| General and institutional | Political guidance | _ | 0.5 |
| services of the public administrations | General affairs and services for administrations | | 152.3 |
| TOTAL | | | 679.9 |

2016 income is analysed below:





The efficient administration of financial resources, the optimisation of the organisation and management models, and the strategic vision of the Academic Bodies have ensured the quality and continuity of the institutional functions of the University in an overall situation where resources are lower: research, teaching, student services and internationalisation.

INCIDENCE OF PAYROLL COSTS

| YEAR | BOLOGNA | MEGA UNIVERSITIES |
|------|---------|-------------------|
| 2014 | 66.5% | 70.8% |
| 2015 | 65.7% | 69.8% |
| 2016 | 65.2% | 69.3% |

The positive indicator of financial sustainability (isef= 1.2 which is good, in that it exceeds the legal requirement of 1) together with the incidence of payroll costs (less than the legal limit of 80%) position the University among the leaders in the assignment of 2017 resources for the recruitment of personnel and career advancement. At the timing of preparing this document, MIUR has not yet made available the indicators for 2017.

OWN INCOME

GRANTS FROM MIUR AND OTHER CENTRAL ADMINISTRATIONS

OTHER INCOME AND REVENUES (INCLUDING INCOME FROM SUPPORT ACTIVITIES)

FUND FOR ORDINARY FINANCING (FOF) OF UNIVERSITIES (MLN EUR): 2013-2017 TREND AND % OF TOTAL





Data updated to 30.9.2018

The new organization of Schools and Departments is active since 1.11.2018

Project

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