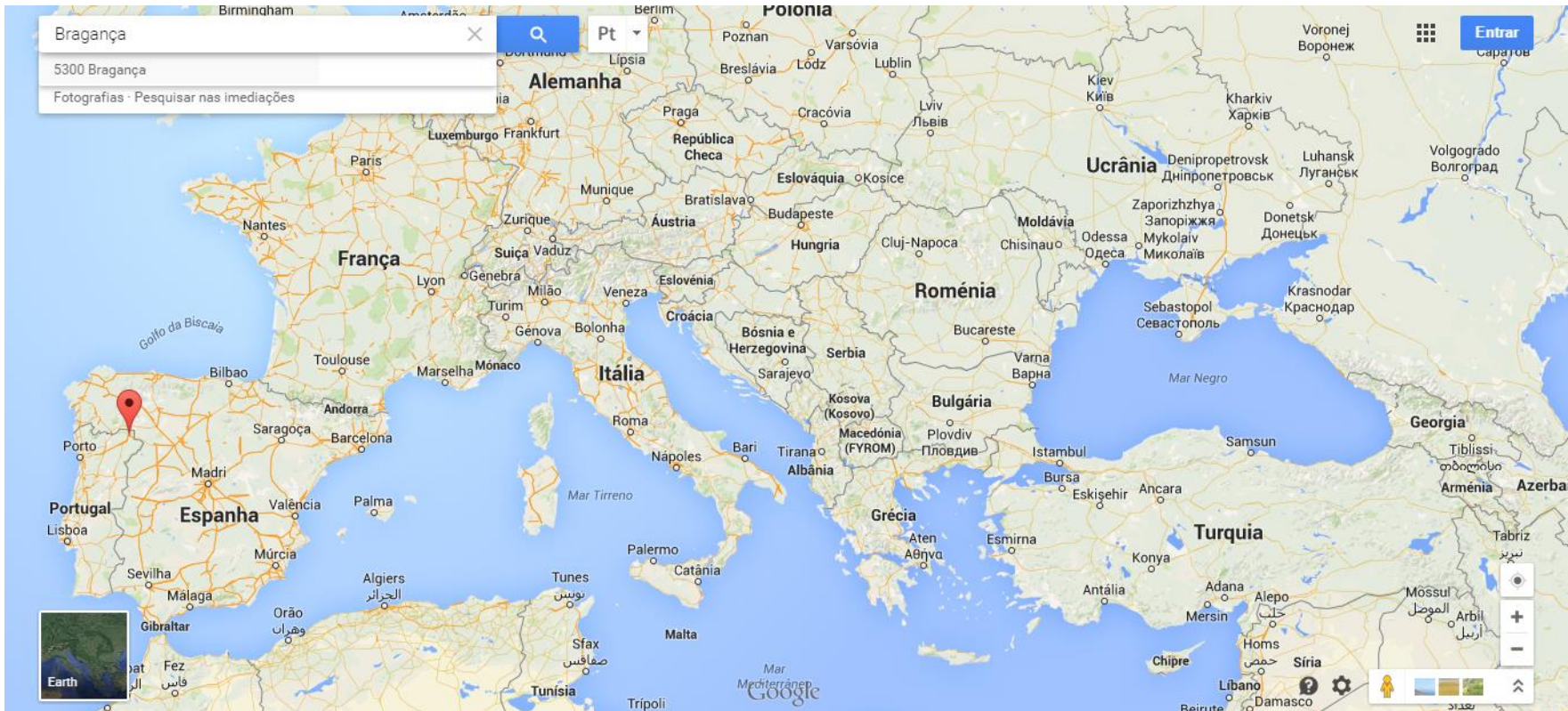


Polytechnic Institute of Bragança

Developing double diplomas as a mean to improve internationalization





Polytechnic Institute of Bragança:

✓ **32 years**

✓ **5 Schools:**

School of Agriculture (**ESA**)

School of Education (**ESE**)

School of Technology and Management (**ESTiG**)

School of Public Management, Communication and Tourism
(**EsACT**, Mirandela)

School of Health (**ESSa**)

✓ **7000 Students**

✓ **25000 Graduates**

 **multirank**
UNIVERSITY OF APPLIED SCIENCES

U-Multirank 2015

For the second consecutive year,
the **Polytechnic Institute of Bragança**
was considered the

Best Portuguese University of Applied Sciences



Scimago 2015 - Research and Innovation



SCIMAGO INSTITUTIONS RANKINGS
only ranks, far more than raw data

IPB - 1st place in Portugal

Normalized Impact
Excellence
Excellence with Leadership
Technological Impact

International cooperation and mobility:

- ✓ The IPB implements mobility within the European Higher Education Area for over 15 years (**Erasmus Programme**): more than **150 bilateral agreements with HEIs from 22 different European Countries**
- ✓ Since 2006, **12 centralized European academic projects**: Strategic Partnerships (3), Tempus (1), Comenius (2), Leonardo da Vinci (2), Erasmus (3) e Erasmus-Mundus (1)
- ✓ Expansion of the international cooperation outside Europe: more than **70 cooperation agreements with non-European HEIs (17 Countries)**
- ✓ For 2015/2016: **7 Bachelor and 5 Master programmes fully lectured in English**
- ✓ Teaching the **Portuguese Language and Culture**:
 - Portuguese Language and Culture Course (**1-year certificate**)
 - Portuguese Language and Portuguese Speaking Countries (**3-years bachelor diploma**)
 - Translation (**2-years master diploma**)

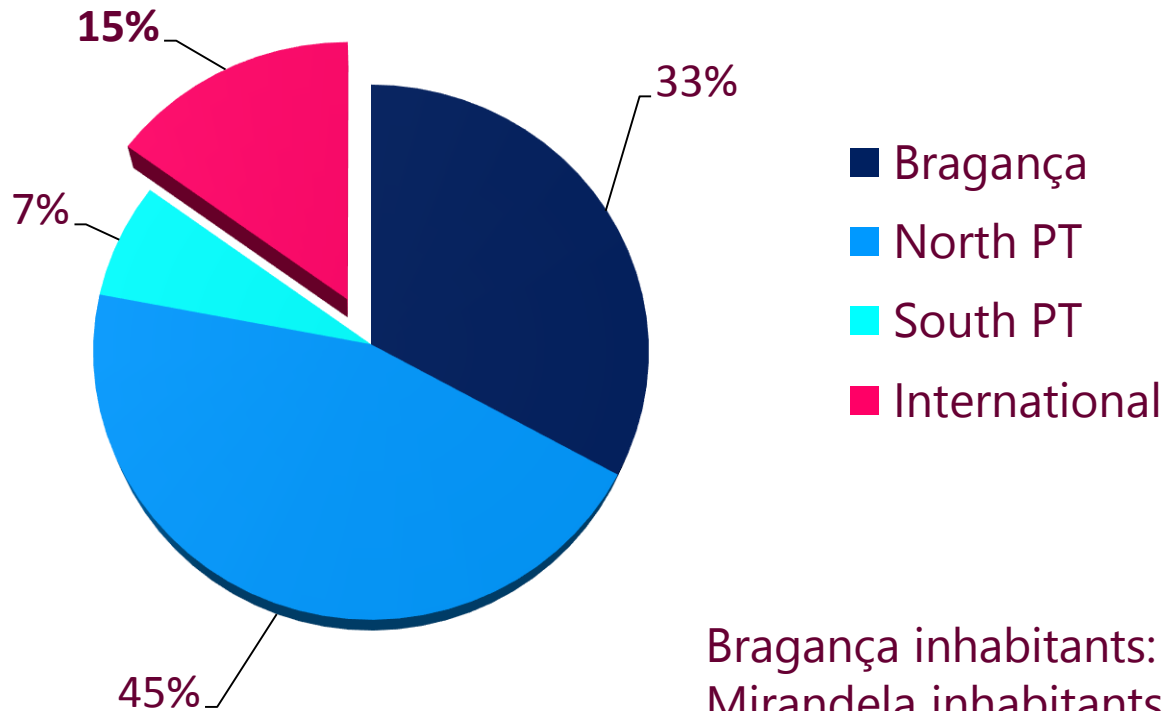
IPB internationalization in numbers:

- ✓ **900 Students under international mobility per year** (incoming and outgoing Erasmus and non-EU students)
- ✓ **200 Teachers and Staff under international mobility per year**
- ✓ In 2013/2014, **24,9% of the IPB graduates had an international mobility experience during their study programme (Europe 2020 target: 20%)**



The IPB is one of the few Portuguese and European HEIs that are distinguished simultaneously with both **ECTS** and **DS labels** by the European Commission.

A multicultural and international academic environment:



Bragança inhabitants: 23,000
Mirandela inhabitants: 15,000
IPB population: 7,000 students,
400 teachers, 250 staff

Cooperation agreements with *La Manche* non-European partners:

- ✓ **Armenia:** National Polytechnic University of Armenia (NPUA) (former State Engineering University of Armenia, SEUA)
- ✓ **Belarus:** Belarus State Economic University (BSEU)
- ✓ **Georgia:** International Black Sea University (IBSU)
- ✓ **Moldova:** State Agrarian University of Moldova (SAUM)
- ✓ **Ukraine:** Cherkasy State Technological University (CHDTU); Lutsk National Technical University (Lutsk NTU); Volodymyr Dahl East Ukrainian National University (EUNU)

Double Diploma projects:

- ✓ **U. Salamanca, Spain:** Master degree in Pharmacy and Chemistry of Natural Products
- ✓ **U. León, Spain:** Bachelor degree in Civil Engineering / Mining Engineering
- ✓ **UTFPR, Brazil:** Bachelor and Master degrees in Chemical Engineering, Food Engineering, Environmental Engineering, and Electrical Engineering
- ✓ **IFSul, Brazil:** Master degree in Teaching Sciences
- ✓ **CUT, Poland:** Master degree in Chemical Engineering
- ✓ **PWSZ, Poland:** Bachelor degree in International Business Management
- ✓ **BSEU, Belarus:** Bachelor degree in International Business Management and Master degree in Management
- ✓ **IBSU, Georgia:** Bachelor degree in Informatics Engineering and Master degree in Information Systems
- ✓ **SAUM, Moldova:** Bachelor degree in International Business Management
- ✓ **BUT, Poland:** Bachelor and Master degrees in Civil Engineering
- ✓ DD under evaluation: **U. Corunha, Spain** (Environmental Engineering); **UHBC, Algeria** (Mechanical and Construction Engineering)

How and Why Double Diploma projects?

- ✓ Institutional recognition and cooperation between partners
- ✓ Similar institutional profiles
- ✓ At least, 1-year international mobility of students
- ✓ Recognition of prior/future learning at both partner institutions
- ✓ Possible use of Erasmus+ grants (for European DD projects and through the new Erasmus+ action with Partner Countries)
- ✓ At master level, and in order to enhance the cooperation in research, cosupervision is mandatory/welcome
- ✓ Teachers mobility is also welcome
- ✓ The master thesis public defence must be conducted by an examining committee with representatives of both partners (in person or by video conference)
- ✓ **A Double Diploma project means international student mobility but also teachers and researchers, and institutional cooperation**

Double diploma agreement with IBSU (International Black Sea University, Georgia) - bachelor programme

- ✓ IBSU students come to IPB after 3 years of studies (180 ECTS) in the bachelor programme of Informatics
- ✓ Selected students have to request an international course transfer to IPB, to the bachelor programme in Informatics Engineering (InfEng)
- ✓ IPB credits the majority of the curricular units taken by students at IBSU, recognizing 156 ECTS credits at the study plan of InfEng
- ✓ Students will take a one-year study plan (66 ECTS), including Portuguese Language and Culture course units
- ✓ Students will obtain the Bachelor Diploma in InfEng, accompanied by the Diploma Supplement, where the agreement to issue the double degree by both institutions is referred
- ✓ InfEng course units will be credited in the IBSU's study plan and taken into account for the awarding of the Bachelor Diploma in Georgia

Double diploma agreement with IBSU (International Black Sea University, Georgia) - bachelor programme

- ✓ Training completed in IBSU, which is relevant for the recognition of studies after enrolling in the InfEng
 - Calculus I & Calculus II
 - Data Structure and Algorithms
 - Digital Design
 - Information Technology
 - Introduction to Computer Science
 - Introduction to Programming
 - Object Oriented Programming
 - Physics
 - Computer Communication and Networks
 - Computer System Simulation
 - Database I & Database II
 - Differential Equations
 - Elective Course
 - Electrical Engineering
 - Linear Algebra
 - System Programming
 - Web Programming I
 - Discreet Math. Structures
 - Elective Courses (8 courses)
 - Information Security
 - Operating Systems
 - Statistics

- ✓ Training completed in IBSU, which is not relevant for the recognition of studies after enrolling in the InfEng
 - English Language I
 - English Language II
 - Georgian Language
 - Elective Language I (Turkish I, Russian I, German I, Spanish I)
 - Elective Language II (Turkish II, Russian II, German II, Spanish II)

Double diploma agreement with IBSU (International Black Sea University, Georgia) - bachelor programme

- ✓ InfEng course units that will be credited because of the training completed in IBSU
 - . Calculus I & Calculus II
 - . Computer Architecture
 - . Digital Electronics
 - . Discrete Mathematics
 - . Linear Algebra and Analytic Geometry
 - . Mobile Communications
 - . Physics
 - . Programming I & Programming II
 - . Algorithms and Data Structures
 - . Computer Graphics
 - . Computer Networks
 - . Databases I & Databases II
 - . Language Processing
 - . Object Oriented Programming
 - . Operating System Fundamentals
 - . Operational Research
 - . Statistics
 - . Application Development
 - . Communication Services
 - . Digital Signal Processing
 - . Software Engineering
 - . System and Network Management
 - . Web Development

- ✓ InfEng course units which IBSU students must complete, in Portugal, to obtain the diploma
 - . Distributed Systems
 - . Elective Courses (6 courses)
 - . Final Project
 - . Robotic Fundamentals

Double diploma agreement with IBSU (International Black Sea University, Georgia) - master programme

- ✓ IBSU students come to IPB after 3 years of studies (60 ECTS) in the master programme of Computer Science
- ✓ Selected students have to request an international course transfer to IPB, to the master programme in Information Systems (InfSys)
- ✓ IPB credits all curricular units taken by students at IBSU, recognizing 60 ECTS credits at the study plan of InfSys
- ✓ Students will take a one-year study plan (66 ECTS), including Portuguese Language and Culture course units
- ✓ Students will develop their master thesis under supervision of two professors - one from IPB and one from IBSU
- ✓ Students will obtain the Master Diploma in InfSys, accompanied by the Diploma Supplement, where the agreement to issue the double degree by both institutions is referred
- ✓ InfSys course units will be credited in the IBSU's study plan and taken into account for the awarding of the Master Diploma in Georgia

Double diploma agreement with IBSU (International Black Sea University, Georgia) - master programme

- ✓ Training completed in IBSU, which is relevant for the recognition of studies after enrolling in the InfSys
 - Advanced Database Systems
 - Comp Networks and Security
 - Elective Course
 - Elective Course
 - Math Background for Computer Science
 - Web Technologies

- ✓ Training completed in IBSU, which is not relevant for the recognition of studies after enrolling in the InfSys
 - None

Double diploma agreement with IBSU (International Black Sea University, Georgia) - master programme

- ✓ InfSys course units that will be credited because of the training completed in IBSU
 - Administration of Services and Applications
 - Advanced Databases
 - Artificial Intelligence
 - Communications Services/Distributed Systems
 - Decision Support Systems
 - Ethics and Law in Informatics
 - Multimedia Applications Development
 - Programming Paradigms
 - Security In Information Systems
 - Project Management

- ✓ InfSys course units which IBSU students must complete, in Portugal, to obtain the diploma
 - Information Systems Architecture
 - Research Methodologies, Innovation and Entrepreneurship
 - Strategy and Quality in Information Systems
 - Thesis; Final Project; Internship

Polytechnic Institute of Bragança

*Academic offer, research and knowledge transfer,
international orientation, and regional engagement*

