With the support of the Erasmus+ programme of the European Union

The Erasmus+ programme provides EU-funded scholarships to students who have been selected by the consortium.

Students from Programme Countries (i.e., EU, Iceland, Liechtenstein, Norway, Turkey, and Former Yugoslav Republic of Macedonia): €17,000 per year

Students from Partner Countries: €24,000 per year

Note: Erasmus+ enable students to gain access to loans on favourable conditions, that are up to €18,000 for two years.

TUITION FEES
- Students from Programme Countries: €4,000 per year
- Students from Partner Countries: €8,000 per year

APPLICATION DEADLINES
- Students applying for an Erasmus+ scholarship: December 11th, 2015
- Students not applying for an Erasmus+ scholarship:
  - April 30th, 2016 (Partner countries students)
  - June 30th, 2016 (Programme countries students)

ADMISSION CRITERIA
To apply to IT4BI, candidates must meet the following eligibility criteria:
- They have been awarded a Bachelor’s degree (i.e., the equivalent of 180 ECTS) with a major in computer science, from an accredited university.
- They must be able to demonstrate proficiency in English by means of an internationally recognised test equivalent to level B2 in the CEFR.

DEGREE AWARDED
Upon completion of the programme, graduates will be awarded with a multiple degree, the nationally recognised master’s degrees from ULB, UFRT and the university of the specialisation.

SCHOLARSHIPS

WHY CHOOSE IT4BI?

- A two-year course in BI fully delivered in English, given by world-renowned European institutions who jointly designed the courses and programme, including three choices of specialisation,
- The first curriculum in Europe covering the broad scope of scientific and technological fields supporting today and tomorrow’s Business Intelligence systems,
- Strong connections with research and industry, through cooperation with industrial partners, research institutes, regional public authorities, universities around the world, and a European university network.

European Master’s Programme in INFORMATION TECHNOLOGIES for BUSINESS INTELLIGENCE

CONTACT
Esteban Zimanyi - Coordinator of IT4BI
ezimanyi@ulb.ac.be

Need more information about IT4BI?
it4bi.univ-tours.fr/
facebook.com/it4bi
twitter.com/IT4BIMASTER

Since its inception 20 years ago, Business Intelligence (BI) has become a huge industrial domain and a major economic driver, however overlooked by academics.

It encompasses many scientific and technological fields including data warehouses, data mining, content analytics, business process management, visual analytics, and requires competences in information systems, web science, decision science, software engineering, innovation and entrepreneurship.

The European Master’s Programme in Information Technologies for Business Intelligence (IT4BI) is designed to provide understanding, knowledge and skills in this broad scope of fields. Its main objective is to train computer scientists who understand and help develop the strategies of modern enterprise decision makers.
Presented by

The programme favours the integration of students into a network of specialists and researchers in BI.

The curriculum is jointly delivered by:

Université Libre de Bruxelles (ULB), Belgium
Université François Rabelais Tours (UFRT), France
CentraleSupélec (CS), France
Universitat Politècnica de Catalunya (UPC), Spain
Technische Universität Berlin (TUB), Germany

This consortium will prepare the graduates not only to answer today's professional challenges by a strong connection with the needs coming from the industry, but also to pursue their studies into doctorate programmes, through strong connections with the researchers' and innovators' views.

Course Structure

IT4BI is a two-year (4 semesters, 120 ECTS) Master’s programme offered by 5 higher education institutions.

The first year is devoted to fundamentals: the first semester at ULB, the second one at UFRT. Then, all students participate to the European Business Intelligence Summer School.

In the third semester, the programme offers three specialisations at CentraleSupélec, UPC and TUB and students move to the partner of the chosen specialisation.

The fourth semester is dedicated to the master’s thesis and can be realised either as a placement in industry, or as an internship in a research laboratory in any full or associated partner.

Course Content

Business Intelligence Fundamentals (ULB, Semester 1)
- Data Warehouses 5 ECTS
- Business Process Management 5 ECTS
- Applied Operational Research 5 ECTS
- Advanced Databases 5 ECTS
- Database Systems Architecture 5 ECTS
- Humanities 5 ECTS

Business Intelligence Fundamentals (UFRT, Semester 2)
- Advanced Data Warehousing 5 ECTS
- Knowledge Discovery and Data Mining 5 ECTS
- XML and Web Technologies 5 ECTS
- Information Retrieval 5 ECTS
- Business Intelligence Seminar 5 ECTS
- Humanities 5 ECTS

Decision Support and Business Intelligence (CS, Semester 3)
- Visual Analytics 5 ECTS
- Data Mining and Machine Learning 5 ECTS
- Corporate Semantics and Semantic Web 5 ECTS
- Decision Modeling 5 ECTS
- Introduction to innovation and research 5 ECTS
- Humanities 5 ECTS

Service-Oriented Business Intelligence (UPC, Semester 3)
- Service-Oriented BI 6 ECTS
- BI Project 6 ECTS
- Web Services 6 ECTS
- Viability of Business Projects 6 ECTS
- Humanities 6 ECTS

Distributed and Large-Scale Business Intelligence (TUB, Semester 3)
- Big Data Analytics Seminar 3 ECTS
- Implementation of a Database Engine 6 ECTS
- Big Data Analytics Projects 9 ECTS
- Heterogeneous and Distributed Information Systems or Large Scale Data Analysis and Data-Mining 6 ECTS
- Humanities 6 ECTS

Master’s Thesis (Semester 4) 30 ECTS

Mobility Scheme

Organised annually by one partner institution