



Master in Quantitative Techniques for Economics and Management

QTEM, an internationally networked master

The Solvay Brussels School of Economics and Management (SBS-EM, at Université Libre de Bruxelles) is the initiator and one of the founding members of the network master program in **Quantitative Techniques for Economics and Management (QTEM)**. The network, which aims at growing to up to 20 partners over the coming years, educates and provides highly qualified and internationally-minded decision-makers equipped with analytical and quantitative skills. In practice, participants in the program are delivered the standard master degree from their home institution, together with the QTEM Network Certificate.

Master structure

The QTEM master offers a unique learning experience with:

- **Strong foundations in management or economics;**
- **A strong background in quantitative and analytical skills and techniques applied to management or economics,** through four QTEM Elective Modules;
- **A strong international exposure** through two semesters abroad at two renowned schools of Economics & Management from the network of Academic Partners;
- **A strong immersion in the reality of top-notch companies** through a company internship.

| | INGE-QTEM | BUSEC-QTEM | |
|------------------------------|--|--|-----------------------|
| MA1 Q1 at SBS-EM | 6 compulsory courses | 6 compulsory courses | + 2 months internship |
| MA1 Q2 at Academic Partner 1 | 2 QTEM Elective Module | 2 QTEM Elective Module | |
| MA2 Q1 at Academic Partner 2 | 2 QTEM Elective Modules | 2 QTEM Elective Modules | |
| MA2Q2 at SBS-EM | 2 compulsory courses* + 2 seminars + Master thesis | 2 compulsory courses** + 1 seminar** + Master thesis | |
| | min 130 ECTS | min 120 ECTS | |
| | INGE Diploma + QTEM Network Certificate | BUSEC Diploma + QTEM Network Certificate | |

* INGE-QTEM Participants are exempt from "Experiences in Management & Corporate Governance" (compulsory for INGE students)

** BUSEC-QTEM Participants are exempt from the following courses (compulsory for BUSEC students):

- The Seminar "Business economics workshop"
- The Dutch course
- One course amongst: "Game theory with applications to economics" / "Advanced industrial organization" / "Financial econometrics / STAT-D-401 Applied multivariate statistical analysis"

| QTEM Elective Modules | |
|--|--|
| 1. Business Intelligence | 9. Marketing and Sales |
| 2. Controlling & Accounting | 10. Microeconomics, Contract & Auction Theory |
| 3. Entrepreneurship | 11. Policy-Making, Regulation and Pricing |
| 4. Finance - Actuarial Sciences | 12. Quantitative Techniques & Tools |
| 5. Finance - Banking and Management of Financial Institutions | 13. Risk Management |
| 6. Finance - Corporate Finance | 14. Strategy; Industrial Organization; Applied Game Theory |
| 7. Finance - Financial Markets and Derivatives | 15. Supply Chain, Operations and Logistics Management |
| 8. Macroeconomic Models and Forecasting, Computational Economics | 16. Tax Management and International Optimization Strategies |

QTEM access and recruitment process:

- QTEM is open to SBS-EM BA3 students who will enter next year their MA1 in Advanced Management or Business Economics.
- Students who will next year enter their Master in Business Engineering may also apply for the standard Exchange program of the SBS-EM. If they do so, in case they are not selected for QTEM, they might have one of their destinations in MA1. If not (i.e., they apply for QTEM only), in case they are not selected for QTEM, they have to do their standard exchange in MA2.
- Students who will next year enter their Master in Business Economics, may apply only for the QTEM exchange. If they are not selected for QTEM, they might apply for the traditional Exchange Program the following year, in order to do their exchange in MA2.
- A selection for QTEM takes precedence over the standard Exchange program.

QTEM selection criteria:

- Bachelor grades (with a special focus on quantitative courses)
- Level of English
- Motivation
- International experience
- Professional experience
- Extra-academic activities
- GMAT (strongly recommended >650; test taken within the last 3 years)

Criteria assessed through: the application form + an interview in front of a jury

Key deadlines for QTEM applicants:

November QTEM applicants submit their application
February QTEM pre-selected candidates are interviewed
March QTEM selected candidates at SBS-EM are announced

Contact Information (QTEM Coordinator):

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