

Module description

Field of study: *Business, Management and Services*

Degree course: *Bachelor of Science HES-SO in International Business Management*

1. Title of module	Economics III	2018-19
Code: 3053	Type of course: (Compulsory – 1 possible response) <input checked="" type="checkbox"/> Bachelor's <input type="checkbox"/> Master's <input type="checkbox"/> MAS <input type="checkbox"/> DAS <input type="checkbox"/> CAS <input type="checkbox"/> Other: ...	
Level: (Optional – 1 possible response) <input type="checkbox"/> Basic module <input type="checkbox"/> Further studies module <input checked="" type="checkbox"/> Advanced module <input type="checkbox"/> Specialised module <input type="checkbox"/> Other: ...	Characteristic: (Optional – 1 possible response) <input checked="" type="checkbox"/> Module where failure may lead to final dismissal from the degree course in accordance with Art.25 of the Framework directives on the Bachelor and Master degrees at the HES-SO	
Type: (Optional – 1 possible response) <input checked="" type="checkbox"/> Main module <input type="checkbox"/> Module linked to main module <input type="checkbox"/> Optional or subsidiary module <input type="checkbox"/> Other: ...	Time schedule: (Optional – multiple responses possible) <input checked="" type="checkbox"/> Module over 1 semester <input type="checkbox"/> Module over 2 semesters <input checked="" type="checkbox"/> Spring semester <input type="checkbox"/> Autumn semester <input type="checkbox"/> Other: ...	

2. Organisation

ECTS credits 4

Language:
(Compulsory – multiple responses possible)

<input type="checkbox"/> French	<input type="checkbox"/> Italian
<input type="checkbox"/> German	<input checked="" type="checkbox"/> English
<input type="checkbox"/> Other: ...	

3. Prerequisite

(Compulsory – 1 possible response)

To have validated the module
 To have followed the module
 No prerequisite
 Other: to have validated the first-year assessment

4. Skills to be gained / general learning objectives

Objectives for the course: **Economics of competition**

At the end of the course, the student will be able to:

- Recognize the basics of competition policy (theory and practice).
- Explain different instruments of competition policy.
- Analyse selected case studies of competition policy.

Objectives for the course: **Applied mathematics**

At the end of the course, the student will be able to:

- Use mathematics tools to model and solve problems in the fields of economics, management and finance.
- Apply optimization techniques to find the best solution to minimization or maximization problems.
- Perform numerical simulations for management problems.
- Develop multivariate calculus techniques.

5. Teaching and content**Course: Economics of competition**

- Chapter 1: Introduction
- Chapter 2: Market power and welfare
- Chapter 3: Market definition and the assessment of market power
- Chapter 4: Collusion
- Chapter 5: Horizontal mergers

Course: Applied mathematics

- Linear programming (graphical methods, use of Excel solver, application to management)
- Multivariate calculus (partial derivatives, optimization, optimization under constraints, quadratic programming)
- Calculus II (integration)
- Monte-Carlo simulations, applications to stock management.
- Selected topics chosen by the instructor.

6. Assessment and validation methods*(Compulsory – write in as required)*

The grading of the module shall be based on:

- A written exam in week 16/32 of the semester; **and**
- Student presentation of an anti-trust case (in Economics of competition) **and/or**
- Mid-term assessments during weeks 1 to 14 according to the decision of the instructor.

(The methods and weightings are communicated by the instructor before the evaluations.)

7. Reassessment requirements*(Compulsory – multiple responses possible)*

- Reassessment possible
 No reassessment
 Other (please specify): ...

7a Reassessment requirements (if module is repeated)*(Compulsory – multiple responses possible)*

- Reassessment possible
 No reassessment
 Other (please specify): ...

other reassessment modalities

Reassessment if the module grade is between 3.5 (included) and 3.9 (included).

After reassessment, the maximum grade is 4.0

8. Remarks**9. Bibliography****Economics of Competition**

Massimo Motta (2004) Competition Policy, theory and practice, Cambridge University Press, Cambridge.

Applied Mathematics:

Introductory Mathematical Analysis, for Business, Economics and Life and Social Sciences, Pearson New International Edition, E.F. Hauessler, R.S. Paul, R.J. Wood. Pearson Ed., 13th edition, 2013. ISBN13: 9781292021140

10. Teaching staff

To be confirmed

Name of the person responsible for the module:

Alexandre Caboussat

Module description validated on
(Compulsory)

module-descr-3053-Economics3.doc

Module description validated by
(Compulsory)

11.09.2018/ AGM/AC

Page 2/2