

Module description

Field of study: Business, Management and Services

Degree course: BSc HES-SO in International Business Management

Major: N/A

Subject to the *Règlement sur la formation de base (Bachelor et Master) à la HES-SO* (R-FB hereafter) and *Regulations for the degree programme Bachelor of Science HES-SO in International Business Management* (R-IBM hereafter; collectively *program regulations* hereafter); and *Règlement d'études des filières Bachelor de la HEG* (RE-HEG hereafter).

1. Title of module	Logic and Critical Thinking	2026-2027
Code: 3171	Revision date / Effective date: 2026-06-30 / 2026-09-14	
Equivalent to: N/A	ECTS Credits: 3 Credits	
Level: ☒ Basic module ☐ Further studies module ☐ Advanced module ☐ Specialised module ☐ Other: ...	Type of course: ☒ Bachelor's ☐ Master's ☐ MAS ☐ DAS ☐ CAS ☐ Other: ... Characteristic: (Optional – 1 possible response) ☒ Compulsory module	
Type: ☐ Main module ☐ Module linked to main module ☐ Optional or subsidiary module ☐ Other: ...	Time schedule: ☐ Module over 1 semester ☒ Module over 2 semesters ☐ Spring semester ☐ Autumn semester ☐ Other: ...	

2. Organisation

Primary teaching language:

- | | |
|---|-------------------------------------|
| ☒ English | ☐ French |
| ☐ German | ☐ Italian |
| ☐ Spanish | ☐ Other: ... |

Module composition

Module composed of the course units: 31711-Logic and Critical Thinking

Attendance:

Attendance is mandatory for all classes and other activities specified in the module description or syllabus, per art. 24 of the RE-HEG and unjustified absence may entail penalties. Where unjustified absence carries penalties, attendance is regularly monitored via written or digital signature, and any penalties are applied in accordance with institutional regulations.

Penalties for absences:

- ☐ Attendance at all scheduled teaching activities is mandatory and constitutes a condition for validation of the module. Students whose attendance falls below 80% of these activities are not eligible to be registered for the final examination which entails failure of the module.
- ☐ Attendance at all scheduled teaching activities is mandatory. Each unjustified absence results in a grade penalty of 0.5/6 applied to the final module grade.
- ☒ Each unjustified absence at scheduled course activities identified as mandatory or compulsory in the module description or syllabus entails a grade penalty of 0.5/6 applied to the final module grade...
- ☒ Absence from activities identified as mandatory or compulsory in the module description or syllabus results in the student not being entitled to receive a grade for any associated assessment.

- ☐ Attendance at all scheduled teaching activities contributes directly to the achievement of learning outcomes. Absences are not directly penalised. Attendance may nevertheless be monitored for pedagogical purposes.
- ☐ Additional details: (optional)

3. Prerequisite

- ☐ To have validated the module
- ☐ To have followed the module
- ☒ No prerequisite
- ☐ Other: ...

4. Skills to be gained / general learning objectives

This module introduces students to the core skills of critical thinking needed for HEG studies and everyday decision-making in a digital information environment. Students will learn how to identify their information needs, search for relevant sources effectively, and evaluate the quality and credibility of information. A specific focus will be given to AI. The module also develops students' ability to adopt adequate reasoning and to recognize common reasoning errors and cognitive biases. Finally the module will familiarize students with the fundamentals of communication and especially how to construct well-reasoned arguments to communicate ideas clearly, and convince.

Learning Objectives:

By the end of the module, students will be able to

- Master the fundamentals of information literacy: identify information needs, search for information using adapted tools, critically assess the credibility of sources, detect misinformation
- Analyze and question the validity of statements based on key logical concepts
- Identify biases and recognize logical fallacies
- Understand different types of reasoning (deductive, inductive, etc.)
- Justify their positions using structured and critically-constructed arguments
- Consider various perspectives by analyzing alternative approaches

5. Teaching and content

The module is delivered primarily online and is designed as a guided learning pathway. It combines concise PowerPoint presentations explaining key concepts, short video capsules, and interactive exercises and quizzes that allow students to apply what they learn and check their understanding. Two face-to-face workshops complement the online work: a first workshop in the fall semester introduces the module and its tools, while a second workshop in the spring semester focuses on practice and application. The online pathway is structured around the following sections:

- Information literacy
- Logic, reasoning and biases
- Argumentation

6. Assessment and validation methods

Student progress along the online learning pathway will be monitored via Cyberlearn, with formative and summative exercises and quizzes. Certifying quizzes will be embedded in each section. These quizzes evaluate both understanding and application of the core concepts and together account for 50% of the final grade. The remaining 50% will be based on a final in-class exam held during the June exam session, designed to assess students' mastery and ability to apply the various concepts explored throughout the year.

- ☒ Further details regarding assessment and validation methods are specified in the module or course unit syllabus available on the Cyberlearn Moodle page of the module or course unit.

7. Remediation and repetition

Module repetition and remediation are governed by the *program regulations* as well as the *RE-HEG*.

Remediation

Module eligible for remediation if the overall module grade is between 3.5 and 3.9, in accordance with Art. 29 R-FB. In case of remediation, grades for continuous assessments or bonus grades are not carried over.

☐ Module composed of multiple course units evaluated individually: remediation applies exclusively to those course units for which the grade obtained is below 4.0. Remediation takes the form of an additional assessment for each course unit concerned, covering the learning objectives of that course unit, as determined by the relevant course-unit coordinator.

☒ Module consisting of a single course unit, or of two integrated course units evaluated jointly at module level: remediation takes the form of one additional assessment covering the learning objectives of the module as a whole.

Repetition

In the event of module repetition, students are required to complete the module in accordance with the following provisions: for modules comprising more than two course units, only those course units for which a grade below 5.0 was obtained must be repeated; for modules comprising one or two course units, students repeating the module must repeat all course units in their entirety, irrespective of the grades previously obtained. Grades or assessment results obtained during a previous attempt are otherwise not carried over.

☒ In case of accelerated repetition per Art 7 of the R-IBM, grades for continuous assessments are carried over.

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8. Remarks

Further details regarding points 5, 6, 7, 9 & 10 may be specified in a module or course unit syllabus available on the Cyberlearn Moodle page of the module or course unit.

The institution reserves the right to modify the content and organization of the module.

9. Bibliography

10. Faculty

Filename : 3171_ModuleDescr_Logic-Critical-Thinking_26-27_V2.docx

Faculty responsible for the module:

(Compulsory)

Module description validated on
2026-06-30

Module description validated by
Astrid Dauverné