GHENT UNIVERSITY

Course Specifications

Valid in the academic year 2025-2026

Data Mining, Processing and Communication (C002798)

Course size *(nominal values; actual values may depend on programme)*

Credits 3.0 **Study time 90 h**

Course offerings and teaching methods in academic year 2025-2026

A (semester 1)	English	Gent	seminar
			independent work
			lecture

Lecturers in academic year 2025-2026

Braeckman, Bart	WE11	lecturer-in-charge
Bert, Wim	WE11	co-lecturer

Offered in the following programmes in 2025-2026	**crdts**	**offering**
International Master of Science in Agro- and Environmental Nematology	3	A

Teaching languages

English

Keywords

Computer infrastructure, software, WWW, data-gathering and input, word-processing, spreadsheet, data presentation, information evaluation, presentation skills

Position of the course

This course starts in the beginning of the 1st year and continues until the end of the first semester.
This course provides basic knowledge on using computers and several software packages (bibliographic tools, Word, Excel, PowerPoint, ...) allowing the student to search for, input, format, present and critically evaluate data.
The main objective is acquiring the ability to do independent and critical data management with appropriate scientific methods, to present data for a scientific audience and to evaluate published scientific papers.

Contents

Learning the basic operations of a computer, essential functions and troubleshooting.
The use of internet and intranet
Introduction to a wide range of bibliographic tools, and more extended focus on most important bibliographic tools
Critical analysis of scientific literature
Operation of word-processing and spreadsheet programs
Presentation of results: technical aspects (software) and attitude

Initial competences

Preliminary knowledge of computers and office-related software is helpful but not required.

Final competences

1 Master basic aspects of computer and internet use.
2 Efficiently retrieve appropriate scientific literature.
3 Evaluate scientific work on its relevance, accuracy and importance.
4 Gather and process scientific data.
5 Present results effectively and concisely.

Conditions for credit contract

Access to this course unit via a credit contract is determined after successful competences assessment

Conditions for exam contract

This course unit cannot be taken via an exam contract

Teaching methods

Seminar, Lecture, Independent work

Extra information on the teaching methods

Short theoretical introductions with on-screen demonstrations, immediately followed by hands-on implementations. Students should bring their laptops.

Study material

Type: Slides

Name: Datamining, processing and communication
Indicative price: Free or paid by faculty
Optional: no
Language : English
Available on Ufora : Yes
Online Available : No
Available in the Library : No
Available through Student Association : No

References

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Course content-related study coaching

Group and individual assistance during the exercises and interactive support via Ufora.

Assessment moments

end-of-term and continuous assessment

Examination methods in case of periodic assessment during the first examination period

Skills test, Written assessment with open-ended questions

Examination methods in case of periodic assessment during the second examination period

Skills test, Written assessment with open-ended questions

Examination methods in case of permanent assessment

Oral assessment, Participation, Assignment

Possibilities of retake in case of permanent assessment

examination during the second examination period is possible

Extra information on the examination methods

Written exam with open questions (minor part) and exercises that require the use of the computer (major part).

Calculation of the examination mark

Non-period bound evaluation (40%) and period bound evaluation (60%).
Non-period bound evaluation includes preparing a manuscript (including introduction with literature review, material and methods, results, discussion and reference list), a poster and an oral presentation of the same data.
Periodic bound valuation comprises limited theoretical questions and selected exercises. The final result is based on a combination of theoretical knowledge, results of the exercises, but mostly on the ability to show insight in the subject.
The score for the non-period bound evaluation remains valid for the second chance exam. Only the mark for the period bound evaluation can change.