

# Course Specifications

Valid as from the academic year 2025-2026

# Management of Information Systems in Healthcare (D013388)

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

Credits 5.0 Study time 125 h

Course offerings and teaching methods in academic year 2025-2026

A (semester 1) English Gent independent work

lecture

crdts

offering

# Lecturers in academic year 2025-2026

Coorevits, Pascal	GE39	lecturer-in-charge
Kalra, Dipak	GE39	co-lecturer
Staelens, Frank	GE39	co-lecturer

#### Offered in the following programmes in 2025-2026

Master of Science in Nursing and Midwifery(main subject Implementation Science in Health Care)

#### Teaching languages

English

# Keywords

Data, information, information systems

### Position of the course

The aim of the course is to give insights into the possibilities and restrictions of governing information and knowledge in a company or organisation by means of information systems. The courses are focussed towards healthcare.

# Contents

- · Introduction eHealth and mHealth
- · Digital innovations in healthcare
- Introduction to (relational) databases
- · Data quality and quality of electronic medical record systems
- Business Intelligence
- Data protection and GDPR
- · Information security
- Challenges and opportunities of the primary and secondary (re-)use of health data

#### Initial competences

- · Basic digital literacy
- Basic knowledge of English

# Final competences

- 1 To have insights into the possibilities and restrictions of governing information and knowledge in healthcare companies or healthcare organisations by means of information systems
- 2 To know eHealth and mHealth aspects regarding innovations in healthcare
- 3 To know important aspects of data quality and quality of electronic medical record systems
- 4 To know the foundations of (relational) databases
- 5 To know important aspects of the General Data Protection Regulation (GDPR) and data protection in healthcare
- 6 To know the introductory principles of information security
- 7 To have insights into the challenges and opportunities of the primary and

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secondary (re-)use of health data

8 To know what business intelligence encompasses and to reflect upon practical use-cases in healthcare

#### Conditions for credit contract

Access to this course unit via a credit contract is unrestricted: the student takes into consideration the conditions mentioned in 'Starting Competences'

#### Conditions for exam contract

This course unit cannot be taken via an exam contract

#### Teaching methods

Lecture, Independent work

#### Study material

Type: Slides

Name: Presentations on the electronic learning platform Indicative price: Free or paid by faculty Optional: no

#### References

#### Course content-related study coaching

Via the electronic learning platform Ufora

#### Assessment moments

end-of-term and continuous assessment

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

Written assessment

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

#### Examination methods in case of permanent assessment

Presentation

# Possibilities of retake in case of permanent assessment

examination during the second examination period is possible in modified form

#### Calculation of the examination mark

This course contains two parts:

- Management of information systems in healthcare (75%)
- Presentation (25%)

If a student passes for both parts (10 or more on 20), the end result is the weighted average of both parts. If a student has two or more shortage\* points he/she cannot pass for this course. If the weighted average would be 10 or more on 20, the score will be lowered to 9 on 20.

If a student on purpose withdraws from one of the two parts, he/she cannot pass for the course. In case the score would be 8 or more on 20, the score will be lowered to 7 on 20.

\*Shortage points are the number of points below 10 on 20, for each part of the course

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