



Course and Examination Fact Sheet: Spring Semester 2025

10,054: Operation and Information Management

ECTS credits: 4

Overview examination/s

(binding regulations see below)

decentral - Presentation, Analog, Individual work individual grade (100%)

Examination time: Term time

Attached courses

Timetable -- Language -- Lecturer

[10,054,1.00 Operation and Information Management](#) -- English -- [Wortmann Felix](#) , [Kowatsch Tobias](#) , [Fleisch Elgar](#)

Course information

Course prerequisites

Operation and Information Management (10,054) is a dissertation-accompanying seminar

Learning objectives

Together with the lecturers and their peers, students critically analyze the current status of their research in the fields of Digital Health, Digital Energy, Digital Mobility, Digital Manufacturing, and Digital Learning. They will reflect on their work, identify the strengths and weaknesses of their projects, and define the critical path for successfully advancing to the next phase.

Course content

Presentation

Prior to the 2-day seminar, students are required to prepare a scientific presentation that outlines the current state of their research work. The presentation, lasting 18 minutes, is inspired by the TED Talk format and follows the T-concept structure.

The presentation begins with a concise introduction that situates the topic within a broader context, highlighting its practical relevance and framing the research question (the crossbar of the "T"). This is followed by a deeper exploration, focused on a current publication in progress (the vertical bar of the "T"). This section emphasizes the data-driven aspects of the research, such as the experimental setup, data collection, analysis, or the development and evaluation of artifacts.

Presentations are expected to meet the highest standards of both content and delivery. They must be robust enough to withstand the scrutiny of an interdisciplinary audience, which includes researchers from fields such as digital health, digital energy, and related domains.

Peer Review

During the presentation, all attendees provide written feedback on aspects such as methodology, literature, tools, and didactics using specially prepared feedback forms. After the presentation, the feedback is handed over to the presenter for consideration and integration. Lecturers also provide verbal feedback.

Possible guiding questions for the design of the presentation are:



- What problem does my paper aim to solve?
- Are the topic and research question relevant, and do they have the potential to provide new insights?
- Is my research meaningful? Am I making a difference with my work?
- Is the research gap clearly identified and addressed?
- Have I thoroughly explored the existing literature in my field?
- How will I obtain the necessary data? Is the quality and scope of the data sufficient?
- Is the chosen method appropriate for answering the research question and working with the available or planned data? Do I have the expertise to apply the method, or do I know someone who can assist me?
- What is the greatest intellectual challenge in my research?
- Are surprising or counterintuitive results likely to emerge?
- How and where will my work contribute to the scientific community? Where should I publish the results, and what is the ranking of those outlets?
- Am I on the "critical path" to completing my work?

Course structure and indications of the learning and teaching design

The seminar comprises three key components: preparing the presentation as outlined in the content section, participating in the seminar itself, and providing written peer reviews for all other participants. The seminar spans two days and is held at an off-campus location. Attendance is mandatory for both days. During presentations, audience members are prohibited from using computers or any electronic devices. The focus should remain entirely on the speaker and the peer review process.

PhD students from diverse academic backgrounds are encouraged to participate. A brief application via email (to vincent.paffrath@unisg.ch), including a statement of motivation, topic area, and CV, is appreciated.

Course literature

None

Additional course information

The seminar will be held on April 30 and May 1, 2025, in Eastern Switzerland. External participants are responsible for covering their own expenses for meals and accommodation. Doctoral students from external universities who wish to attend must enroll as guest students at the University of St. Gallen (HSG). Typically, around 20 doctoral students participate in the seminar.

Date, time, and location information in this fact sheet is non-binding. Binding information on time and place will be published on the course website.

Examination information

Examination sub part/s

1. Examination sub part (1/1)

Examination modalities

Examination type	Presentation
Responsible for organisation	decentral
Examination form	Oral examination
Examination mode	Analog
Time of examination	Term time
Examination execution	Asynchronous
Examination location	On Campus
Grading type	Individual work individual grade
Weighting	100%
Duration	--

Examination languages

Question language: English
Answer language: English



Remark

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Examination-aid rule

Free aids provision

Basically, students are free to choose aids. Any restrictions are defined by the faculty members in charge of the examination under supplementary aids.

Supplementary aids

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Examination content

Presentation and peer review as described above

Examination relevant literature

None

Please note

Please note that only this fact sheet and the examination schedule published at the time of bidding are binding and takes precedence over other information, such as information on StudyNet (Canvas), on lecturers' websites and information in lectures etc.

Any references and links to third-party content within the fact sheet are only of a supplementary, informative nature and lie outside the area of responsibility of the University of St.Gallen.

Documents and materials are only relevant for central examinations if they are available by the end of the lecture period (CW21) at the latest. In the case of centrally organised mid-term examinations, the documents and materials up to CW 13 (Monday, 25 March 2025) are relevant for testing.

Binding nature of the fact sheets:

- Course information as well as examination date (organised centrally/decentrally) and form of examination: from bidding start in CW 04 (Thursday, 23 January 2025);
- Examination information (supplementary aids, examination contents, examination literature) for decentralised examinations: in CW 12 (Monday, 17 March 2025);
- Examination information (supplementary aids, examination contents, examination literature) for centrally organised mid-term examinations: in CW 14 (Monday, 31 March 2025);
- Examination information (regulations on aids, examination contents, examination literature) for centrally organised examinations: two weeks before ending with de-registration period in CW 15 (Monday, 07 April 2025).