



Course and Examination Fact Sheet: Spring Semester 2021

10,052: Design Science Research

ECTS credits: 6

Overview examination/s

(binding regulations see below)

Decentral - Presentation (in groups - all given the same grades) (75%)

Examination time: term time

Decentral - examination paper written at home (individual) (25%)

Examination time: term time

Attached courses

Timetable -- Language -- Lecturer

[10,052,1.00 Design Science Research](#) -- Englisch -- [vom Brocke Jan](#) , [Leimeister Jan Marco](#) , [Söllner Matthias](#)

Course information

Course prerequisites

None.

Learning objectives

- Students understand the paradigmatic differences between behavioural, descriptive research and design science research. Students have a good command of the most important methodological reference literature of design science research.
- Students can design a design science research design - i.e. they can make informed methodological choices how to approach a research problem in a design-oriented way.

Course content

This course introduces the methodology of Design Science Research on Ph.D. level. It is designed for Doctoral Students in Business Innovation.

While design science research (DSR) is widely applied in information systems (IS) research and a large amount of DSR methodology has been developed in the IS field, the paradigm as such is applied also in other Business Innovation disciplines - implicitly or explicitly.

Enabled by independent literature studies and supported by lecturer input and feedback, students will prepare, present and discuss a (group) design research project of their own choice.

The project should be chosen in the context of the dissertation projects of the participating students. Thereby, attending this course should provide direct benefits for dissertation projects.

Lecturers encourage students to develop their literature studies and design project group projects into publications and/or prototypes. A number of design projects from past courses has directly led to peer-reviewed publications and prototype presentations.

Course structure

Module 1 (start of term): - Independent literature studies - Kickoff of design projects - Group work phase
Module 2 (mid term): - Two walkthrough sessions with lecturers - Design project finalization (group work)
Module 3 (end of term): - Presentation and



discussion of group projects The interactive components of all modules are blocked in form of four days. Dates will be published in "Stundenplan online".

Course literature

A list of recommended readings will be made available for module 1.

An introduction to DSR for Business Innovation students is available in this book chapter:

Winter, R., Aier, S., Design Science Research in Business Innovation, in: Hoffmann, C., Lennerts, S., Schmitz, C., Stölzle, W., Ueberrnickel, F. (Eds.), Business Innovation: Das St. Galler Modell, Springer Gabler, Wiesbaden, 2016, pp. 475-498.

It is highly recommended to study this book chapter in order to determine what DSR is about, how it differs from other research paradigms in Business Innovation, and whether DSR as a research paradigm could provide utility for the individual dissertation project.

Additional course information

In the case of the President's Board having to implement new directives due to the SARS-CoV-2 pandemic in SpS2021, the course information listed above will be changed as follows:

The course is conducted online via the platform Zoom;

The recordings of the course are available for 30 days;

The lecturer informs via StudyNet/e-mail on the changed implementation modalities of the course;

The examination information will not be changed.

Examination information

Examination sub part/s

1. Examination sub part (1/2)

Examination time and form

Decentral - Presentation (in groups - all given the same grades) (75%)

Examination time: term time

Remark

Design Project

Examination-aid rule

Practical examination

No examination-aid rule is necessary for such examination types. The rules and regulations of the University of St. Gallen apply in a subsidiary fashion.

Supplementary aids

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Examination languages

Question language: English

Answer language: English

2. Examination sub part (2/2)

Examination time and form

Decentral - examination paper written at home (individual) (25%)

Examination time: term time

Remark

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Examination-aid rule

Term papers

Term papers must be written without anyone else's help and in accordance with the known quotation standards, and they must contain a declaration of authorship which is a published template in StudentWeb.

The documentation of sources (quotations, bibliography) has to be done throughout and consistently in accordance with the chosen citation standard such as APA or MLA.

For papers in law, the legal standard is recommended (by way of example, cf. FORSTMOSER, P., OGOREK R. et SCHINDLER B., *Juristisches Arbeiten: Eine Anleitung für Studierende*, newest edition respectively, or according to the recommendations of the Law School).

The indications of the sources of information taken over verbatim or in paraphrase (quotations) must be integrated into texts in accordance with the precepts of the applicable quotation standard, while informative and bibliographical notes must be added as footnotes (recommendations and standards can be found, for example, in METZGER, C., *Lern- und Arbeitsstrategien*, newest edition respectively).

For any work written at the HSG, the indication of the page numbers is mandatory independent of the chosen citation standard. Where there are no page numbers in sources, precise references must be provided in a different way: titles of chapters or sections, section numbers, acts, scenes, verses, etc.

Supplementary aids

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Examination languages

Question language: English

Answer language: English

Examination content

In the examination paper, students shall document that they are able to understand, summarize, reflect, and apply current scientific papers on DSR. Each student will be assigned a certain set of papers.

In the group presentation, students shall document that they are able to apply the state of the art of DSR paradigm to a research problem of their choice.

Examination relevant literature

Literature recommendations will be given in module 1.



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 12 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, 28 January 2021);
- Examination information (regulations on aids, examination contents, examination literature) for decentralised examinations: in CW 12 (Monday, 22 March 2021);
- Examination information (regulations on aids, examination contents, examination literature) for centrally organised mid-term examinations: in CW 12 (Monday, 22 March 2021);
- Examination information (regulations on aids, examination contents, examination literature) for centrally organised examinations: two weeks before the end of the registration period in CW 14 (Thursday, 8 April 2021).