



Course and Examination Fact Sheet: Autumn Semester 2019

5,131: Development of Business Process Automation and Monitoring Solutions

ECTS credits: 4

Overview examination/s

(binding regulations see below)

Decentral - examination paper written at home (individual) (20%)

Decentral - Group examination paper (all given the same grades) (30%)

Decentral - Group examination paper with presentation (all given the same grades) (50%)

Attached courses

Timetable -- Language -- Lecturer

[5,131,1.00 Development of Business Process Automation and Monitoring Solutions](#) -- Englisch -- [Weber Barbara](#)

Course information

Course prerequisites

Students attending this course should have some programming experience.

Course content

Aim of this course is to teach students how business process management technologies can be used to develop process automation and monitoring solutions.

More specifically, the course will help students to achieve the following learning objectives:

- Students understand and can create business process models
- Students understand and can create decision models
- Students are able to automate business processes and decisions using an existing business process management technology
- Students are able to create user forms as well as integrate external services into a business process
- Students are able to analyze the execution of a business process using process mining
- Students have a basic understanding of business process monitoring

Course structure

The course will be conducted on a weekly basis. Lectures will be combined with practical exercises closely aligned to the lecture. Moreover, a team project will be conducted.

Course literature

Marlon Dumas, Marcello La Rosa, Jan Mendling, Hajo A. Reijers: Fundamentals of Business Process Management, Second Edition. Springer 2018, ISBN 978-3-662-56508-7, pp. 1-527.

Additional course information

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Examination information

Examination sub part/s

1. Examination sub part (1/3)

Examination time and form

Decentral - examination paper written at home (individual) (20%)

Remark

Modelling assignment

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.
- The documentation of sources (quotations, bibliography) has to be done throughout and consistently in accordance with the APA or MLA standards. The indications of the sources of information taken over verbatim or in paraphrase (quotations) must be integrated into the text 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. (2017), Lern- und Arbeitsstrategien (12th ed., Cornelsen Schweiz).
- For any work written at the HSG, the indication of the page numbers both according to the MLA and the APA standard is never optional.
- 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.
- For papers in law, the legal standard is recommended (by way of example, cf. FORSTMOSER, P., OGOREK R. et SCHINDLER B. (2018, Juristisches Arbeiten: Eine Anleitung für Studierende (6. Auflage), Zürich: Schulthess, or the recommendations of the Law School).

Supplementary aids

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Examination languages

Question language: English

Answer language: English

2. Examination sub part (2/3)

Examination time and form

Decentral - Group examination paper (all given the same grades) (30%)

Remark

Process mining assignment

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.
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Supplementary aids

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Examination languages

Question language: English

Answer language: English

3. Examination sub part (3/3)

Examination time and form

Decentral - Group examination paper with presentation (all given the same grades) (50%)

Remark

Team project

Examination-aid rule

Term papers

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Supplementary aids

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Examination languages

Question language: English

Answer language: English

Examination content

All contents from lecture and exercise sessions as well as referenced literature on the following topics:

- process modelling
- decision modelling
- business process management systems and process automation
- usage of external services
- business process monitoring and mining

Examination relevant literature



- Provided lecture and exercise slides
- Exercise assignments
- Provided hand-outs
- Referenced literature
- Discussion during the lecture and exercise sessions

Please note

Please note that this fact sheet alone is binding and has priority over any other information such as StudyNet (Canvas), personal databases or faculty members' websites and information provided in their lectures, etc.

Any possible references and links within the fact sheet to information provided by third parties are merely supplementary and informative in nature and are outside the University of St.Gallen's scope of responsibility and guarantee.

Documents and materials that have been submitted no later than the end of term time (CW51) are relevant to central examinations.

Binding nature of the fact sheet:

- Information about courses and examination time (central/decentral) and examination type starting from the beginning of the bidding on 22 August 2019
- Information about examinations (examination aid regulations, examination content, examination-relevant literature) for decentral examinations after the 4th semester week on 14 October 2019
- Information about examinations (examination aid regulations, examination content, examination-relevant literature) for central examinations as from the starting date for examination registration on 4 November 2019

Please consult the fact sheet again after these deadlines have expired.