# Module description

## Module title
Process and System Modelling

## Abbreviation
12-PSM-141-m01

<table>
<thead>
<tr>
<th>Module coordinator</th>
<th>Module offered by</th>
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<tbody>
<tr>
<td>holder of the Chair of Business Management and Business Information Systems</td>
<td>Faculty of Business Management and Economics</td>
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| ECTS | Method of grading | Only after succ. compl. of module(s) | |
|------|-------------------|--------------------------------------|
| 5    | numerical grade   | --                                   |

| Duration | Module level | Other prerequisites | |
|----------|--------------|---------------------|
| 1 semester | graduate    | --                   |

## Contents

The course familiarises students with relevant principles, concepts and methods of process and system modelling. It is divided up into two parts:

**Part A: Introduction to business process management**

Contents Part A:

- Purpose of business process management
- How are business processes modelled?
- What is business process management?
- Strategic Management

**Part B: Simulation**

Contents Part B:

- Simulation
- Theoretical foundations
- Petri nets
- Smalltalk inscription language

## Intended learning outcomes

The students have

1. substantial knowledge of the basic principles, concepts and methods of process and system modeling and
2. recognize their economic importance and consequences.

## Courses

(V + Ü (no information on SWS (weekly contact hours) and course language available)

**Method of assessment**

(a) written examination (approx. 60 minutes) or (b) written examination consisting entirely or partly of multiple/single choice questions (approx. 60 minutes) or (c) presentation (15 to 20 minutes) with written elaboration (approx. 20 pages), weighted 1:2 or (d) oral examination (one candidate each: approx. 10 to 15 minutes; groups of 2: approx. 20 minutes; groups of 3: approx. 30 minutes) or (e) entirely or partly computerised written examination (approx. 60 minutes)

Language of assessment: German, English
## Allocation of places

Number of places: 20. Should the number of applications exceed the number of available places, 15 places will be set aside for Master’s students of Business Information Systems. (1) Should the number of applications exceed the number of available places, places will be allocated in a standardised procedure among all applicants irrespective of their subjects according to the following quotas: Quota 1 (50% of places): total number of ECTS credits already achieved in the respective degree subject; among applicants with the same number of ECTS credits achieved, places will be allocated by lot. Quota 2 (25% of places): number of subject semesters of the respective applicant; among applicants with the same number of subject semesters, places will be allocated by lot. Quota 3 (25% of places): allocation by lot. In this procedure, applicants who already have successfully completed at least one module component of the respective module will be given preferential consideration. (2) Places on all courses of the module component with a restricted number of places will be allocated in the same procedure. (3) A waiting list will be maintained and places re-allocated as they become available.

## Additional information

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**Referred to in LPO I** (examination regulations for teaching-degree programmes)

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**Module appears in**

Master’s degree (1 major) Business Management (2014)