Syllabus

Name:

Real-time Process Analytics

Responsible:

Professor Christian Janiesch, Assistant Professor for Information Management

Programme:	**Term:**	**ECTS:**
Master	Winter	6 CP

Contents & Objectives:

The course teaches advanced approaches to process analytics. Students will learn to model and measure processes and process execution based on past and present data.

After successfully completing the course, students should be able to

- Understand process modeling and process execution in an SOA
- OLAP analysis in a process warehouse
- Business Rules for BPM
- Complex Event Processing
- Event-driven BPM using CEP and Business Rules

The CEP part of the course loosely builds on top of the "Event Processing in Action" by Etzion and Niblett [1].

Prerequisites:

The course is designed for Master students with an interest in BPM and business/process analytics.

Course Structure:

Week	**Content**
1	Intro
2-3	Traditional Business Analytics
4-6	BPM, BPMN and Process Execution
8	Business Rules
10-12	Complex Event Processing
13	Event-driven BPM
14	Further Applications of EdBPM

Literature:
[1] Etzion, O. and Niblett, P. *Event Processing in Action*. Manning, Stamford, CT, 2010.
Exam:
60-minute final written exam
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