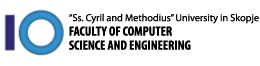
**DRAFT HANDOUT:  
BUSINESS PROCESS MANAGEMENT**







o. Univ. Prof. Prof h.c. Dr. Dimitris Karagiannis

Dr. Florin Abazi

Dr. Hans-Georg Fill

Mag. Wilfrid Utz

# DRAFT Agenda Topics

* BPM Foundations
* BPM Lifecycles
* BPM Technologies
* Break-Out: Motivation from Industrial Case “IAEA” Nuclear Inspection Processes
* BPM Design
* BPM Modelling Languages
* Break-Out Custom BPM Modelling Languages
* BPM Design: Evaluation/Analysis/Simulation
* BPM Modelling Languages – BPMN
* BPM Application Scenarios
* Break Out: iSMM
* BPM Case Study

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| **Monday,  April 8, 2013** |
| *Start at 9:30 on first day*   |  |  | | --- | --- | | 9:30 – 10:00 | Introduction to Course  Agenda  Goal/Objective of course  Evaluation Schema  Introduction Lecturers, Institution, Research Objective  Technology Used (ADONIS:CE Intro) | | Florin Abazi | |  |  |  | | --- | --- | | 10:00 – 11:00 | **BPM Foundations**  Definitions + Interactive Motivation (What is BPM for the students, based on a sample, etc.)  Example: AMAZON/Online Book Store (adapt according to feedback from Florin)  Slide Input: WINF BPM Foundations slides | | Hans-Georg Fill | |  |  |  | | --- | --- | | 11:00 – 11:15 | BREAK |  |  |  | | --- | --- | | 11:15 – 12:30 | **BPM Lifecycles**  Focus BPMS  Example: AMAZON/Online Book Store (adapt according to feedback from Florin)  Readings:  Karagiannis 1995: BPMS Paper  Slide Input: Ecole de Mines (01b, 19-29) + Konsolidierung mit WINF | | Hans-Georg Fill | |  |  |  | | --- | --- | | 12:30 – 14:00 | LUNCH BREAK | |
| |  |  | | --- | --- | | 14:00 – 14:30 | **BPM Technologies**  Focus ADONIS:CE  Distinction between BPM and WF, Business Graph, Execution Graph, Evaluation Graph -> Formal representation!!!  Readings:  Junginger et. Al. Workflow-based Business Monitoring  Business Graph/Execution Graph  Example: AMAZON/Online Book Store (adapt according to feedback from Florin)  Slide Input: WINF BP Technologies, Ecole de Mines (11b) | | Hans-Georg Fill | |  |  |  | | --- | --- | | 14:30 – 15:30 | **Break-Out: Motivation from Industrial Case “IAEA” Nuclear Inspection Processes**  Slide Input: Slides from Florin | | Florin Abazi | |  |  |  | | --- | --- | | 15:30 – 15:45 | BREAK |  |  |  | | --- | --- | | 15:45 – 17:30 | **Assignments & InClass Preparation**  BPM Case Distribution for Domain Example   * Groups a 5 students * Develop Business case * Follow BPMS paradigm   Input   * *Domain list:* Bank, Insurance, Car production, Hotel, Hospital, Railway, Telecommunication, Retail, Beverage, Restaurant chain   Output   * 1 slide per sub-process per student to be handed in | | Florin Abazi, Hans-Georg Fill | | |

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| **Tuesday,  April 9, 2013** |
| |  |  | | --- | --- | | 09:00 – 11:00 | **Presentation of Business CAses**  5 min presentation + 5min Q&A per Group | | Florin Abazi, Hans-Georg Fill | |  |  |  | | --- | --- | | 11:00 – 11:45 | **BPM Design**  Focus ADONIS:CE  Distinction between BPM and WF, Business Graph, Execution Graph, Evaluation Graph -> Formal representation!!!  Readings:   * GoM, Design principles, Becker Schütte   Slide Input: WINF Process Design, VGU, GoM Folien | | Hans-Georg Fill | |  |  |  | | --- | --- | | 11:45 – 12:00 | BREAK |  |  |  | | --- | --- | | 12:00 – 12:30 | **Introduction ADONIS**   * Setup (Individual, Labor), UI, Tool, Functionalities, Constructions Principles   Reading:   * BPTrends ONLINE   Slide Input: ADONS Training Intro, Basic construction principles, spider net (01b, 30-43, 46, 47) | | Hans-Georg Fill | |  |  |  | | --- | --- | | 12:30 – 14:00 | LUNCH BREAK |  |  |  | | --- | --- | | 14:00 – 15:30 | **Modelling in ADONIS**  Construction Principles in Processes  Reading:   * Integrated Modelling and Simulation of Inter-Organisational Business Processes   Slide Input: ADONS Training Intro, Basic construction principles, spider net (01b, 30-43, 46, 47) | | Hans-Georg Fill | |  |  |  | | --- | --- | | 15:30 – 15:45 | BREAK |  |  |  | | --- | --- | | 15:45 – 17:30 | **Assignments & InClass Preparation**  Domain specific case process landscape, and 5 processes per group (1 per person). Integrated view. | | Florin Abazi, Hans-Georg Fill | | |

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| **Wednesday,  April 10, 2013** |
| |  |  | | --- | --- | | 09:00 – 11:00 | **Presentation of Models in Tool**  5 min presentation + 5min Q&A per Group | | Florin Abazi, Hans-Georg Fill | |  |  |  | | --- | --- | | 11:00 – 11:15 | BREAK |  |  |  | | --- | --- | | 11:15 – 12:00 | **BPM Modelling Languages**  Language classification and types  Sample: EPC  Sample: UML  Readings:   * Formalisation and Verification of EPC (van Der Aalst)   Slide Input: Ecole de Mines (04b, 24-29, 55-62), WINF | | Hans-Georg Fill | |  |  |  | | --- | --- | | 12:00 – 12:30 | **Break-Out Custom BPM Modelling Languages**  Sample: iSMM - Custom process modeling language IAEA  ONLY “Nuclear Fuel Cycle Process Model”  Reading:  Paper Florin/Hans-Georg/Bergmayr | | Florin Abazi | |  |  |  | | --- | --- | | 12:30 – 14:00 | LUNCH BREAK |  |  |  | | --- | --- | | 14:00 – 15:30 | **BPM Design: Evaluation/Analysis/Simulation**  Static evaluation (verification, validation, optimization) -> Analyse  Dynamic evaluation (simulation) -> Simulation  Examples: Händisches Rechnen von Beispielen  Slide Input: Ecole de Mines (05b, 4-48), WINF | | Hans-Georg Fill, Wilfrid Utz | |  |  |  | | --- | --- | | 15:30 – 15:45 | BREAK |  |  |  | | --- | --- | | 15:45 – 17:30 | **Evaluation/Analysis/Simulation in ADONIS**  Reading:   * Simulation in Financial Services with the Business Process Management System ADONIS * Agenten -> Florian Bartl   Slide Input: ADONS Training Intro, Basic construction principles, spider net (01b, 30-43, 46, 47)  Case development to simulatable models PART 1 | | Wilfrid Utz | | |

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| **Thursday,  April 11, 2013** |
| |  |  | | --- | --- | | 09:00 – 10:00 | **Evaluation/Analysis/Simulation in ADONIS contd.**  Conclusion of sample | | Wilfrid Utz | |  |  |  | | --- | --- | | 10:00 – 10:15 | BREAK |  |  |  | | --- | --- | | 10:15 – 11:00 | **BPM Modelling Languages**  Standard language: BPMN  Readings:   * Formalisation and Verification of EPC (van Der Aalst)   Slide Input: BPMN Example | | Wilfrid Utz | |  |  |  | | --- | --- | | 11:00 – 12:30 | **Modelling, Analysis, Simualtion and Evaluation of BPMN Models**  Same sample as above, BPMN based optimization of results | | Wilfrid Utz | |  |  |  | | --- | --- | | 12:30 – 14:00 | LUNCH BREAK |  |  |  | | --- | --- | | 14:00 – 15:30 | **BPM Application Scenarios**   * Interpretation of Simulation Results and SHOULD-BE Scenario Development * WF Engine * Process as Specification * Process as Knowledge Platform   Example: AMAZON/Online Book Store (adapt according to feedback from Florin) | | Wilfrid Utz | |  |  |  | | --- | --- | | 15:30 – 15:45 | BREAK |  |  |  | | --- | --- | | 15:45 – 17:30 | **Assignments & InClass Preparation**  Domain Sample ready for Simulation  Data collection  Scenario development  Simulation and evaluation of different scenarios  Improvement proposal based on 1 process | | Florin Abazi, Wilfrid Utz | | |

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| **Friday,  April 12, 2013** |
| |  |  | | --- | --- | | 09:00 – 11:00 | **Presentation of assignment** | | Wilfrid Utz | |  |  |  | | --- | --- | | 11:00 – 11:15 | BREAK |  |  |  | | --- | --- | | 11:15 – 12:30 | **Introduction to case study “Airport”**   * Case study description and format * Evaluation * First concept development on an individual basis | | Wilfrid Utz | |  |  |  | | --- | --- | | 12:30 – 13:30 | **WrapUp & Q&A Case Study**  Course evaluation  Announcement of exam |  |  | | --- | | Wilfrid Utz | |