n|w Fachhochschule Nordwestschweiz
Hochschule für Wirtschaft

Semester Programme: *Digitalisation of Business Processes*

Semester	Spring 2018	Module Coordinator	Andreas Martin	Class	
Programme / Campus	MSc BIS / Olten	Lecturers	Knut Hinkelmann, Prajakta Diwanji, Emanuele Laurenzi, Andreas Martin	Room	

Nr	CW	Date	Topics	Exercise / Team-based Assessment (TbA)
1	8	22.02.	**Digitalisation of Business Processes** • Teaching and Learning Model & Team-based Assessment (**TbA**) {Andreas} • Digitalisation of Business Processes {Andreas} • Modelling Environment (Camunda Modeller) and Project Repository (GitHub Repository and Wiki) {Andreas}	• Hands-on: Register on GitHub, Download GitHub Desktop and Camunda Modeller {Emanuele, Prajakta} • **TbA**: Controlled random team formation {Emanuele} • **TbA**: Use case identification, project context definition and innovation elicitation – first brainstorming {all coaches}
2	9	1.03.		• **TbA**: GitHub repository creation {Emanuele} • **TbA**: Project context definition and strategic process modelling – discussions with lecturers and coaches {all coaches}
3	10	8.03.	**Decision Modelling and Collaborative Processes** • Decision Modelling {Knut} • Digital Data {Knut} • Non-structured and Collaborative Processes {Knut}	• Exercise: Modelling DMN and/or DRD in Camunda {Knut, Prajakta} • **TbA**: Decision modelling
4	11	15.03.	**Human Workflow Management** • Workflow Management Systems {Andreas} • Microservices and "Microflows" {Andreas} • BPM in the Cloud {Andreas} • Infrastructure and Tools for Workflow Management in the Cloud (Camunda Workflow Engine, Heroku PaaS)	• Exercise: Human Workflow Modelling and Execution {Emanuele} • Exercise: Human Workflow Cloud Deployment {Andreas} • **TbA**: Operational process, workflow and decision modelling
5	12	22.03.	*Toulont missing*	• **TbA**: Operational process, workflow and decision modelling – discussions with lecturers and coaches
-	13	29.03.	----	----
6	14	5.04.	**AI and Bots for BPM** • Artificial Intelligence and Bots Defined {Andreas} • Agile Modelling and Artificial Intelligence {Emanuele, Knut} • Robotic Process Automation (RPA) {Prajakta, Knut}	• Showcase: Intelligent Food Inc. • Exercise: Digital Assistant • **TbA**: Selection of AI services or definition of assistant use cases

Manuel missing

			- Digital Assistants for Cooperation - AI as a Service	
7	15	12.04.		**TbA**: Elaboration of AI services or implementation of assistant dialogues
8	16	19.04.	**TbA: Intermediate Review** (not evaluated – just feedback)	
9	17	26.04.	**Service Integration, Orchestration and Automation** - APIs as the Digital Glue {Andreas} - Synchronous and Asynchronous Communication - Service Integration and iPaaS - Self-Service Integration, Automation Services and iSaaS - Tools and Guidelines for WfMS Service Integration	- Service integration, orchestration and choreography - Exercise: iSaaS integration **TbA**: Selection of external services and iSaaS
10	18	3.05.	**Optional: In-depth AI and Bot Workshops** - In-depth Alexa Workshop {Emanuele} - In-depth Google Assistant Workshop {Andreas}	**TbA**: Integration of external services and iSaaS **TbA**: Integration of AI services or digital assistants
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11	20	17.05.		**TbA**: Integration of external services and iSaaS **TbA**: Integration of AI services or digital assistants
12	21	24.05.		**TbA**: Deployment, documentation and finalisation of project
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13	23	07.06.	**TbA: Final Presentation** (evaluated)	
LMS (Moodle)				

The module description and this semester programme also represent the relevant content for performance evaluation. Subject to any oral explanations and additions made by the lecturer / lecturer. The lecturer reserves situational adaptions of the present programme.