Syllabus
GMT 5704 Agile Project Management
Prof. Dr. Matthias Handrich
Summer Semester 2023

Level	Master	
Credits	2	
Student Contact Hours	30 hours	
Workload	60 hours (30 contact hours + 30 hours self-study)	
Prerequisites	**Knowledge of classic Project Management**	
Time	Fridays, 11:30 am – 6pm	
Room	W 4.1.06	
Start Date	19.05	
Lecturer(s)	**Name**	Prof. Dr. Matthias Handrich
	Office	W 2.3.04
	Virtual Office	https://app.alfaview.com/#/join/alfaview-wur/6d2e0514-01f9-4d0f-bf50-4efb1164f14c/b8e637fe-031d-4422-a149-7ca663e6b6c
	Colloquium	Mondays, 5:15 pm – 6:45 pm
	Phone	(07231) 28-6266
	Email	**matthias.handrich@hs-pforzheim.de**

Learning Objectives:

By the end of the course, the participants shall be able to conduct a project with the agile project management method SCRUM. In detail student should be capable of:

- knowing the basic agile principles and how to apply them

- assessing if SCRUM or a classic project management approach should be applied to conduct the project

- discussing and evaluating their first real experiences with conducting an agile SCRUM project

Course contributions to the MBA program goals / learning outcomes

Goal		Learning Objectives	Course Contributions to Goal	Assessment
1	Responsible leadership in organizational contexts	1.1 Knowledge of leadership principles 1.2 Application of leadership principles 1.3 Critical reflection of leadership concepts	1.2 Students have to work in teams consisting of students from different countries and have to solve the problems connected with it.	Team work: Agile case study Team Presentations
2	Creative problem solving skills in a complex business environment	2.1 Ability to identify, differentiate and classify problems 2.2 Ability to analyze problems (instrumental competence) 2.3 Ability to find creative solutions (systemic competence) 2.4 Ability to present problems (communicative competence)	2.1 to 2.4 The case study is based on a realistic project situation. The team needs to set the project goals, analyse the situation, identify all the challenges and conduct the project using agile SCRUM methods. The are in constant exchange with the professor to discuss project challenges/problems and derive their own solutions	Dealing with external disruptions: Agile case study
3	Research Skills	3.1 Methodological knowledge (extending knowledge) 3.2 Competence in applying relevant state of the art research methods (instrumental competence) 3.3 Ability to collect innovative results by using relevant research methods (systemic competence)	31. to 3.3: The students will apply their SCRUM knowledge directly in the case study. They will get templates which are based on innovative agile concepts to collect their project results	Learning different SCRUM roles in the Agile case study
4	Management of Innovation	4.1 Fundamental knowledge of operational innovation processes 4.2 Ability to assess a company´s innovation potential 4.3 Ability to develop complex technological strategies	4.3 The students will be able to conduct complex technological projects (digital/IT projects) using SCRUM as an agile projects management method.	Conducting a complete project from end-to-end using the Agile case study
5	Management of the challenges of global sustainability and awareness for social and corporate responsibilities	5.1 Fundamental knowledge of sustainability issues 5.2 Ability to identify and analyze sustainability issues and its causes 5.3 Development of sustainability strategies		

		Not applicable	Not applicable

Main course topics:

- Introduction to Agile Project Management and SCRUM
    - o Why is agility relevant (VUCA World) ?
    - o What is agile project management?
    - o The concept of SCRUM, its elements/artefacts and SCRUM roles
- Practicing the SCRUM Flow
    - o Introduction to the case study
    - o SCRUM Meetings
- Dealing with disruptions
    - o Current status of SCRUM project
    - o Introduction of external disruptions
    - o Solution to deal with disruptions
- Moving forward with Agile Project Management and SCRUM
    - o Project finalization and team presentations
    - o Project Success Stories / do's and don'ts
    - o Limitations of agile project management and SCRUM

Basic outline and organization:

The course consists of two main elements:

1. **Interactive lectures with discussion**: The course begins with an introduction into agile project management methods and SCRUM and how they differ from classic project management.

2. **Agile SCRUM Case Study**: The major part of the course deals with a case study. The students will work in teams on their case study. During the course they will get additional information which simulate a real project with real challenges. The professor will serve as a coach.

Grading:

Attendance in the introductory sessions and in the presentations of your fellow students is mandatory. Preparation and active participation are expected.

Grading will be based on the performance in the case study. It consists of a team grade and an individual grade (team 70% individual 30%)

Course Materials:

All the materials for the case study will be provided on the learning platform moodle just before the first lecture.

Recommended Literature:

- Schwaber, Ken, Agile Project Management with Scrum
- Cohn Mike, User Stories Applied
- Cohn Mike, Agile Estimating and Planning
- Derby Esther, Larse, Diana, Agile Retrospectives: Making Good Teams Great

Availability of the lecturer and teaching philosophy:

Prof. Dr. Matthias Handrich
Office: W.2.3.04: or online: https://app.alfaview.com/#/join/alfaview-wur/6d2e0514-01f9-4d0f-bf50-4efb1164f14c/b8e637fe-031d-4422-a149-7ca663e6b6c5

Office hours: online meetings upon request
Email: matthias.handrich@hs-pforzheim.de

I care about your learning. Therefore, do not hesitate to contact me if you have any questions/problems with your learning or with the course.

Preliminary schedule for GMT5704 – Agile Project Management

		Mandatory textbook for preparation:
19.05	Introduction to Agile Project Management and SCRUM	See course materials

11:30 – 18:00		
09.06 11:30 – 18:00	Practicing the SCRUM Flow	See course materials
16.06 11:30 – 18:00	Dealing with disruptions	See course materials
23.06 11:30 – 18:00	Moving forward with Agile Project Management and SCRUM	See course materials