


**Master of
Cyber Physical Systems**

International Master of Science on Cyber Physical Systems

WP2: Development

D2.4 Schedule proposal for master courses and their activities

Project Acronym	MS@CPS	Project Number	598750-EPP-1-2018-1-DE-EPPKA2-CBHE-JP
Date	2020-03-14	Deliverable No.	2.4
Contact Person	Christian Weber	Organisation	USI
Phone	+49 271 740 5199	E-Mail	christian.weber@uni-siegen.de
Version	1.0	Confidentiality level	Public



Version History

Version No.	Date	Change	Editor(s)
1.0	April 2021	Complete draft	Christian Weber

Contributors

Name	Organization
This deliverable saw contributions from a wide range of contributors. However, only a selected few added their name to the list.	*

Disclaimer

This project has been funded with support from the European Commission. This publication reflects the views only of the author(s), and the Commission cannot be held responsible for any use which may be made of the information contained therein.

Table of Contents

- Version History 2
- Contributors 2
- Disclaimer 2
- Table of Contents 3
- 1 MS@CPS Schedule Proposal for Master Courses and their Activities 4
 - 1.1 Purpose of this Document..... 4
 - 1.2 MS@CPS Schedule Proposal for Master Courses and their Activities 4

1 MS@CPS Schedule Proposal for Master Courses and their Activities

1.1 Purpose of this Document

The students' course book D2.2, including a clean list of all course definitions, together with the curriculum report D2.3, are the base of the MS@CPS study programme. They define the composition, frame and ordering of classes and learning outcomes.

This document will provide an example schedule along the framing of D2.2. and D2.3. In the following the schedule of the partner AQU is shown and extended to give an impression how the study programme can be put into action for a local schedule.

1.2 MS@CPS Schedule Proposal for Master Courses and their Activities

The tables below are showing the example schedule, following the D2.3 curriculum concept. Following these and the pedagogy of D2.1, the following points have to be considered:

- **Courses:** Within each semester at least one core course has to be visited by the students, along the set module requirements. Core courses are here mandatory courses that cover the core learning outcomes, defining the must-have learning outcomes to be able to master a base knowledge within the respective module. Depending on the remaining schedule, additional elective courses are selected.
- **Theory vs practice:** The student needs to select a sufficient number of elective courses per module to meet the minimum requirement of 12 credit points (6 CHR below) to pass a module. Furthermore, a sufficient number of practical courses should be selected, following the MS@CPS pedagogy.
- **Master thesis works:** The master thesis should optimally include a collaboration or at least input from the local or abroad industry to enable a link into the practical relevance beyond the theoretical research focus of the work. To guide students on how to pick and use a fitting research method, the master thesis may include a tutorial where supervisors support students to pick, adjust and develop a research method along the designated topic.

Semester 1						
#	Course Name	Course Code	CHR	Theoretical	Practical	Course Type
1	Internet of Things	8072101	3	3	-	Core
2	Innovation and entrepreneurship	8072202	3	3	-	Core
3	Elective course	8072xxx	3	3	-	Elective
4	Elective course	8072xxx	3	3	-	Elective
5	Elective course (incl. labs)	8072xxx	3	-	3	Elective
Total Credits - First Semester			15			

Semester 2						
#	Course Name	Course Code	CHR	Theoretical	Practical	Course Type
1	Machine learning	8072103	3	3	-	Core
2	Human Computer Interaction	8072102	3	3	-	Core
3	Elective course	8072xxx	3	3	-	Elective
4	Elective course (incl. labs)	8072xxx	3	-	3	Elective
5	Elective course (incl. labs)	8072xxx	3	-	3	Elective
Total Credits - Second Semester			15			

Semester 3						
#	Course Name	Course Code	CHR	Theoretical	Practical	Course Type
1	Master's Thesis preparation	8072409	3	3	-	Core
2	Embedded Systems	8072203	3	3	-	Core
3	Security & Privacy in CPS	8072201	3	3	-	Core
4	Elective course	8072xxx	3	3	-	Elective
5	Elective course (incl. labs)	8072xxx	3	-	3	Elective
Total Credits - Third Semester			15			

Semester 4						
#	Course Name	Course Code	CHR	Theoretical	Practical	Course Type
1	Master's Thesis	8072410	9	9	-	Core
2	Elective course	8072xxx	3	3	-	Elective
Total Credits - Fourth Semester			15			