

Study and Examination Plan

Computer Science and Software Engineering (CSSE) BSc										
Matriculation Fall 2022										
Program-Specific Modules				Type	Assessment	Period	Status¹	Sem.	CP	
Year 1								60		
<i>Take all the mandatory YEAR 1 modules listed below, as this is a requirement for the Computer Science and Software Engineering program.</i>										
CH-232	Module: Introduction to Computer Science⁵						m	1	7.5	
CH-232-A	Introduction to Computer Science	Lecture	Written examination	Examination period					7.5	
CH-230	Module: Programming in C and C++						m	1	7.5	
CH-230-A	Programming in C and C++	Lecture	Written examination	Examination period					2.5	
CH-230-B	Programming in C and C++ Tutorial	Tutorial	Practical assessment	During the semester					5	
CH-700	Module: Introduction to Data Science						m	1	7.5	
CH-700-A	Introduction to Data Science	Lecture	Written examination	Examination period					7.5	
JTMS-MAT-09	Module: Calculus and Elements of Linear Algebra I						m	1	5	
JTMS-09	Calculus and Elements of Linear Algebra I	Lecture	Written examination	Examination period					5	
CH-231	Module: Algorithms and Data Structures						m	2	7.5	
CH-231-A	Algorithms and Data Structures	Lecture	Written examination	Examination period					7.5	
BCSSE-Y1-02	Module: Introduction to Cyber Physical Systems						m	2	7.5	
BCSSE-Y1-CPS-A	Introduction to Cyber Physical Systems (CPS) Lecture	Lecture	Written examination	Examination period					5	
BCSSE-Y1-CPS-B	Introduction to Cyber Physical Systems (CPS) Tutorial	Tutorial	Assignments	During the semester					2.5	
BCSSE-Y1-03	Module: Software Design and Prototyping						m	2	7.5	
BCSSE-Y1-SDP-A	Software Design and Prototyping Lecture	Lecture	Written examination	Examination period					5	
BCSSE-Y1-SDP-B	Software Design and Prototyping Tutorial	Tutorial	Project	During the semester					2.5	
JTMS-MAT-10	Module: Calculus and Elements of Linear Algebra II						m	2	5	
JTMS-10	Calculus and Elements of Linear Algebra II	Lecture	Written examination	Examination period					5	
BCSSE-Y1-01	Module: Distributed Development						m	1/2	5	
BCSSE-Y1-DD-A	Distributed Development I	Lecture & Lab	Practical assessment	During the semester			1		2.5	
BCSSE-Y1-DD-B	Distributed Development II	Lecture & Lab	Practical assessment	During the semester			2		2.5	
Year 2								60		
<i>Take all the mandatory YEAR 2 modules listed below (50 CP), as this is a requirement for the Computer Science and Software Engineering program. Further, please choose 10 CP of Electives.</i>										
CO-560	Module: Databases and Web Services						m	3	7.5	
CO-560-A	Databases and Web Services - Lecture	Lecture	Written examination	Examination period					5	
CO-560-B	Databases and Web Services - Project	Project	Project	During the semester					2.5	
CO-562	Module: Operating Systems						m	3	7.5	
CO-562-A	Operating Systems	Lecture	Written examination	Examination period					7.5	
CO-710	Data Analytics and Modeling						m	3	7.5	
CO-710-A	Data Analytics and Modeling	Lecture	Written examination	Examination period					7.5	
JTMS-MAT-12	Module: Probability and Random Processes						m	3	5	
JTMS-12	Probability and Random Processes	Lecture	Written examination	Examination period					5	
CO-561	Module: Software Engineering						m	4	7.5	
CO-561-A	Software Engineering	Lecture	Written examination	Examination period					2.5	
CO-561-B	Software Engineering Project	Project	Project	During the semester					5	
CO-547	Module: Artificial Intelligence						m	4	7.5	
CO-547-A	Artificial Intelligence	Lecture	Written examination	Examination period					5	
xxx	Artificial Intelligence Tutorial (CSSE)	Tutorial	Assignments	During the semester					2.5	
xxx	Module: Machine Learning + Machine Learning Tools						m	4	7.5	
CO-541-A	Machine Learning	Lecture	Written examination	Examination period					5	
xxx	Machine Learning Tools	Lab	Lab Assignments	During semester					2.5	
Electives²								m	3/4	10
<i>Take a total of 10 CP CSSE Electives</i>										

Year 3							60	
<i>Take all mandatory Year 3 modules listed below (30 CP). Further, select 15 CP of CSSE Specialization Modules, 10 CP of Management Modules and 5 CP of Elective Modules.</i>								
CA-INT-900	Module: Summer Internship					m	4/5	15
CA-INT-900-0	Summer Internship		Report	During the 5 th semester				15
xxx	Module: Thesis / Seminar CSSE					m	6	10
xxx	Thesis CSSE	Thesis	Thesis	15th of May				10
xxx	Module: Collaborative Software Project					m	5	5
xxx	Collaborative Software Project	Project	Project report	During the semester				5
	CSSE Specialization Modules³ <i>Take a total of 15 CP CSSE Specialization Modules</i>					m	5/6	15
	Management Modules⁴ <i>Take a total of 10 CP Management Modules.</i>					m	5/6	10
	Electives² <i>Take a total of 5 CP Electives</i>					m	6	5
Total CP								180
¹ Status (m = mandatory, me = mandatory elective)								
² For a full listing of all Elective modules please consult the current online course catalogue and/or the study program handbooks.								
³ For a full listing of all CSSE Specialization modules please consult the current online course catalogue and/or the study program handbooks.								
⁴ For a full listing of all Management modules please consult the current online course catalogue and/or the study program handbooks.								