Course of Study Computational Science and Engineering (Study Cohort w17)

Sample course plan M Master Computational Science and Engineering (IIWMS)
Specialisation Scientific Computing

LP	Semester 1	Form	Hrs/wk	Semester 2	Form	Hrs/wk	Semester 3	Form	Hrs/wk	Semester 4	Form	Hrs/wk
1	**Efficient Algorithms**			**High-Performance Computing**			**Research Project and Seminar**			**Master Thesis**		
2	Efficient Algorithms	VL	2	Fundamentals of High-Performance Computing	VL	2	Seminar	SE	2			
3	Efficient Algorithms	UE	2				Project Work	PK	10			
4				Fundamentals of High-Performance Computing	PBL	2						
5												
6												
7	**Hierarchical Algorithms**			**Approximation and Stability**								
8	Hierarchical Algorithms	VL	2	Approximation and Stability	VL	3						
9	Hierarchical Algorithms	UE	2	Approximation and Stability	UE	1						
10												
11												
12												
13	**Matrix Algorithms**			**Numerical Mathematics II**								
14	Matrix Algorithms	VL	2	Numerical Mathematics II	VL	2						
15	Matrix Algorithms	UE	2	Numerical Mathematics II	UE	2						
16												
17												
18												
19	**Matrix Theory**			**Numerical Treatment of Ordinary Differential Equations**			**Scientific Computing and Accuracy**					
20	Numerical Analysis and Matrix Theory	VL	2				Verification Methods	VL	2			
21	Numerical Analysis and Matrix Theory	UE	2	Numerical Treatment of Ordinary Differential Equations	VL	2	Verification Methods	UE	2			
22												
23				Numerical Treatment of Ordinary Differential Equations	UE	2						
24												
25							**Numerics of Partial Differential Equations**					
26							Numerics of Partial Differential Equations	VL	2			
27							Numerics of Partial Differential Equations	UE	2			
28												
29												
30												

Business & Management (from catalogue) - 6LP

Nontechnical Elective Complementary Courses for Master (from catalogue) - 6LP

The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.