## Course of Study Theoretical Mechanical Engineering (Study Cohort w18)

Sample course plan A Master Theoretical Mechanical Engineering (TMBMS) Specialisation Maritime Technology

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

Core qualification Compulsory Specialisation Compulsory Focus Compulsory Thesis Compulsory

Core qualification Elective Compulsory Compulsory Compulsory Thesis Compulsory Thesis Compulsory Thesis Compulsory Compulsory Focus Elective Compulsory Compulsory Complement

LP	Semester 1 Form Hrs/w		/wkSemester 2	Form Hrs/v	kSemester 3 Form Hi	s/wkSemester 4	Form Hrs/wk
1 2 3 4 5 6	Finite Elements Methods Finite Element Methods Finite Element Methods	VL 2 HÜ 2	No. 100 April 700 April 100 April 10	VL 2 UE 2	Research Project Theoretical Mechanical Engineering	Master The	sis
7 8 9 10 11	Control Systems Theory and Design Control Systems Theory and Design Control Systems Theory and Design	VL 2 UE 2	A P I B I	VL 2 PR 3			
13 14 15 16 17	Modelling and Optimization in Dynar Flexible Multibody Systems Optimization of dynamical systems	nics VL 2 VL 2		VL 2 HÜ 2	Ship Vibration Ship Vibration VL Ship Vibration UE		
19 20 21	Control Lab C Control Lab VII Control Lab VIII Control Lab IX	PR 1 PR 1 PR 1	Identification	t <b>ifikation</b> VL 2	Arctic Technology Ship structural design for arctic PBL conditions Ice Engineering VL	2	
22 23 24 25 26 27 28 29 30	Fatigue Strength of Ships and Offshore Structures Fatigue Strength of Ships and Offshore Structures Fatigue Strength of Ships and Offshore Structures	VL 2 UE 2	Approaches in Structural Analysis	vL 2	Ice Engineering UE		
	Business & Management (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.