	Study track: Ship Design	
	Students start: Aalto	
Semester	Prerequisite: BSc Mechanical Engineering or Naval Architecture	ECTS
	MEC-E1003 Principles of Naval Architecture, Period I-II	5
	MEC-E1001 Mechanical engineering in society, Period I-II	5
	MEC-E1002 Mechanical engineering project (Mar. tech. track), P. I-IV	5
	MEC-E2001 Ship hydrodynamics, Period II	5
	MEC-E2002 Ship buoyancy and stability, Period II	5
	*Language studies/Scientific methodology	
	Electives (check pre-requisites for each course):	10-15
1	MEC-E2009 Marine risks and safety. Period I	(5)
Autumn	MEC-E1030 Random loads and processes, Period I	(5)
Aalto	MEC-E1020 Fluid dynamics, Period I	(5)
(2019)	MEC-E2010 Computational fluid modelling, Period I**	(5)
	MEC-E4003 Ice mechanics; Period I	(5)
	MEC-E8004 Fatigue and fracture of structures, Period I	(5)
	Kul-24.4710 Analysis of large complex structures, Period II**	(5)
	MEC-E1050 Finite element method in solids, Period II	(5)
	MEC-E1040 Dynamics of structures, Period II MEC E4004 Model cools testing in ice. Deriod U**	(5)
	MEC-E2003 Passenger shins Period II	(5)
	MEC-E2005 Passenger sings, Period II MEC-E2012 Computational marine hydrodynamics. Period II**	(5)
	MEC-E1002 Mechanical engineering project (Mar. tech. track), P. I-IV	5 (10)
	MEC-E2004 Ship dynamics, Period III	5
	MEC-E2007 Ship structures and construction, Period IV	5
2	MEC-E2005 Ship systems, Period IV	5
Spring	*Language studies/Scientific methodology	5
Aalto		
(2020)	Electives (check pre-requisites for each course):	5-10
	MEC-E8001 Finite element analysis, Period III**	(5)
	MEC-E4001 Winter navigation, Period III	(5)
	MEC-E4002 Ice Loads on structures, Period IV**	(5)
	MMA151 Marine design project	15
3	TME260 Fatigue and fractures	7.5
Autumn		
Chalmers	Electives (choose one):	7.5
(2019/	IBB136 Project management	(7.5)
2020)	MTT100 Mechanical performance of engineering materials	(7.5)
	MTF072 Computational fluid dynamics	(7.5)
4		
Spring	Master Thesis, Chalmers	30
(2020/1)		
(2020/1)		

* Courses "Kie-98.1500 Thesis writing", "Kie-98.1503 Conference talk", "Kie-98.1700 Integrated course in English" should be taken either during the autumn or spring semester. ** Prerequisites must be checked based on earlier studies.

5 August 2019 Note: Modifications and corrections to this table may be issued without prior notice.