

MSC-PROGRAMME IN MARINE TECHNOLOGY (MSN1)

Term 1 (May-July 2005)*

Term 2 and 3 (Autumn 2005 and Spring 2006)*

Term 4 (Autumn 2006 to February 2007)

MARINE STRUCTURES

Ex	Subject no.	Subject title	Note	Autumn			Spring			Cr	Exam
				F	Ø	S	F	Ø	S		
		Compulsory subjects:									
1a	TMR5140	MARINE STRUCT BC		3	6	3			7,5	x	
1a	TMR5150	MARINE DYNAMICS BC		3	6	3			7,5	x	
1a	TMR5190	MARINE HYDRODYN BC		4	6	2			7,5	x	
		Weighting compulsory courses		10	18	8			22,5		
		Compulsory subjects:									
2h	TMR4190	ELEM METHODS STRUCT		3	6	3			7,5	x	
2h	TMR4215	SEA LOADS		3	6	3			7,5	x	
2h	TPG5100	MATH/COMPUTER METHOD	1	2	8	2			7,5	-	
		Weighting compulsory courses		8	20	8			22,5		
		Optional subjects:									
2h	TMR4200	FATIGUE/FRACTURE	2	3	6	3			7,5	x	
2h	TMR4235	STOCH THEORY SEALOAD	2	3	6	3			7,5	x	
2v	TMR4195	DESIGN OFFSHOR STRUC	3				3	6	3	7,5	x
2v	TMR4205	BUCKLING/COLLAPS STR	3				3	6	3	7,5	x
2v	TMR4217	HYDRO HIGH-SPEED VEH	3				3	6	3	7,5	x
2v	TMR4220	NAVAL HYDRODYNAMICS	3				3	6	3	7,5	x
2v	TMR4225	MARINE OPERATIONS	3				3	6	3	7,5	x
2v	TMR4230	OCEANOGRAPHY	3				3	6	3	7,5	x
2v	TMR5160	MARIN STRUCT PROJECT	4					12		7,5	-
2v	TMR5200	MARINE HYDRO PROJECT	4					12		7,5	-
3h	TMR5170	MAR STRUC SPEC SUBJ	5	4	4	4			7,5	x	
3h	TMR5220	MAR HYDRO SPEC SUBJ	5	4	4	4			7,5	x	
3h		Master Thesis							30,0		

Ex 1a = Term 1, Exam August

Ex 2h = Term 2, Exam Autumn

Ex 2v = Term 3, Exam Spring

Ex 3h = Term 4, Exam Autumn, the Master Thesis is to be submitted in February 2007.

*) MSC-PROGRAMME IN MARINE TECHNOLOGY are offered every second year. Next time starting in May 2007, with preliminary application deadline 1. December 2006 (www.marin.ntnu.no/msc). E-mail for information: mscadm@ivt.ntnu.no. The programme may be subject to change.

- 1) Exercises with examples from marine technology topics.
- 2) Select 1 of the subjects.
- 3) Select 3 of the subjects.
- 4) Select 1 of the subjects.
- 5) Select 1 of the subjects, so that the total weighting of the programme contains 120 credits (Cr.).

MSC-PROGRAMME IN MARINE TECHNOLOGY (MSN1)

Term 1 (May-July 2005)*

Term 2 and 3 (Autumn 2005 and Spring 2006)*

Term 4 (Autumn 2006 to February 2007)

MARINE SYSTEMS ENGINEERING

Ex	Subject no.	Subject title	Note	Autumn			Spring			Cr	Exam
				F	Ø	S	F	Ø	S		
		Compulsory subjects:									
1a	TMR5100	MAR DESIG/MAR ENG BC		4	6	2			7,5	x	
1a	TMR5190	MARINE HYDRODYN BC		4	6	2			7,5	x	
1a	TMR5270	OPERATION TECHN BC		3	6	3			7,5	x	
		Weighting compulsory courses		11	18	7			22,5		
		Compulsory subjects:									
2h	TMR4115	DESIGN METHODS		3	6	3			7,5	x	
2h	TMR4290	DIESEL-EL PROP SYST		3	6	3			7,5	x	
2h	TMR5120	DESIGN MAR VEHICLES			12				7,5	-	
2v	TMR4130	RISK ANALYSIS SAFETY					2	8	2	7,5	-
2v	TMR4280	INTERNAL COMB ENGINE					3	6	3	7,5	x
		Weighting compulsory courses		6	24	6	5	14	5	37,5	
		Optional subjects:									
2h	TMR4275	MOD/SIM/AN DYN SYST	2	3	6	3			7,5	x	
2h	TPG5100	MATH/COMPUTER METHOD	1,2	2	8	2			7,5	-	
2v	TMR4125	BUILD SHIPS/PLATFORM	3				3	3	6	7,5	x
2v	TMR4220	NAVAL HYDRODYNAMICS	3				3	6	3	7,5	x
2v	TMR5110	MAR DESIGN PROJECT	4					12		7,5	-
2v	TMR5280	MAR ENGINEER PROJECT	4					12		7,5	-
2v	TMR5290	TECH OPERAT PROJECT	4					12		7,5	-
3h	TMR5130	MAR DESIGN SPEC SUBJ	5	4	4	4				7,5	x
3h	TMR5300	MAR ENG SPEC SUBJ	5	4	4	4				7,5	x
3h	TMR5310	TECH OP SPEC SUBJ	5	4	4	4				7,5	x
3h		Master Thesis								30,0	

Ex 1a = Term 1, Exam August

Ex 2h = Term 2, Exam Autumn

Ex 2v = Term 3, Exam Spring

Ex 3h = Term 4, Exam Autumn, the Master Thesis is to be submitted in February 2007.

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- 1) Exercises with examples from marine technology topics.
- 2) Select 1 of the subjects.
- 3) Select 1 of the subjects.
- 4) Select 1 of the subjects.
- 5) Select 1 of the subjects, so that the total weighting of the programme contains 120 credits (Cr.).

MSC-PROGRAMME IN MARINE TECHNOLOGY (MSN1)

Term 1 (May-July 2005)*

Term 2 and 3 (Autumn 2005 and Spring 2006)*

Term 4 (Autumn 2006 to February 2007)

MARINE CONTROL SYSTEMS

Ex	Subject no.	Subject title	Note	Autumn			Spring			Cr	Exam
				F	Ø	S	F	Ø	S		
		Compulsory subjects:									
1a	TMR5140	MARINE STRUCT BC	1	3	6	3			7,5	x	
1a	TMR5150	MARINE DYNAMICS BC		3	6	3			7,5	x	
1a	TMR5190	MARINE HYDRODYN BC		4	6	2			7,5	x	
		Weighting compulsory courses		10	18	8			22,5		
		Compulsory subjects:									
2h	TMR4215	SEA LOADS		3	6	3			7,5	x	
2h	TMR5180	CONTROL ENGINEERING		3	6	3			7,5	x	
2v	TMR4240	MARINE CONTROL SYST					3	6	3	7,5	x
2v	TTK4130	MODELLING/SIMULATION					4	4	4	7,5	x
2v	TTK4190	GUIDANCE AND CONTROL					3	2	7	7,5	x
		Weighting compulsory courses		6	12	6	10	12	14	37,5	
		Optional subjects:									
2h	TMR4190	ELEM METHODS STRUCT	2	3	6	3			7,5	x	
2h	TMR4275	MOD/SIM/AN DYN SYST	2	3	6	3			7,5	x	
2h	TTK4150	NONLINEAR CONTR SYST	2	3	2	7			7,5	x	
2h	TTT4140	FUND OF NAVIGATION	2	4	2	6			7,5	x	
2v	TMR4220	NAVAL HYDRODYNAMICS	3				3	6	3	7,5	x
2v	TMR4225	MARINE OPERATIONS	3				3	6	3	7,5	x
2v	TMR4230	OCEANOGRAPHY	3				3	6	3	7,5	x
2v	TTT4150	NAVIGATION SYSTEMS	3				4	2	6	7,5	x
3h	TMR5210	CONTR SYST SPEC SUBJ	4	4	4	4			7,5	x	
3h		Master Thesis							30,0		

Ex 1a = Term 1, Exam August

Ex 2h = Term 2, Exam Autumn

Ex 2v = Term 3, Exam Spring

Ex 3h = Term 4, Exam Autumn, the Master Thesis is to be submitted in February 2007.

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- 1) Can be replaced by the subject Calculus 4.
- 2) Select 2 of the subjects.
- 3) Select 1 of the subjects.
- 4) Select 1 subject, so that the total weighting of the programme contains 120 credits (Cr.).

MSC-PROGRAMME IN MARINE TECHNOLOGY (MSN1)

Term 1, 2,3 and 4*)

NAUTICAL SCIENCE

Ex	Subject no.	Subject title	Note	Autumn			Spring			Cr	Exam
				F	Ø	S	F	Ø	S		
		Compulsory subjects:									
1h	TMA5100	CALCULUS 4		4	2	6			7,5	x	
1h	TMR4215	SEA LOADS		3	6	3			7,5	x	
1h	TMR5190	MARINE HYDRODYN BC		4	6	2			7,5	x	
1h	TTT4140	FUND OF NAVIGATION		4	2	6			7,5	x	
1v	TMR5150	MARINE DYNAMICS BC					3	6	3	7,5	x
1v	TMR5230	NAUTICAL SCIENCE BC					3	6	3	7,5	x
1v	TTT4150	NAVIGATION SYSTEMS					4	2	6	7,5	x
		Weighting compulsory courses		15	16	17	10	14	12	52,5	
		Optional subjects:									
1v	TMR4130	RISK ANALYSIS SAFETY	1				2	8	2	7,5	-
1v	TMR4220	NAVAL HYDRODYNAMICS	1				3	6	3	7,5	x
1v	TMR4225	MARINE OPERATIONS	1				3	6	3	7,5	x
1v	TMR4230	OCEANOGRAPHY	1				3	6	3	7,5	x
1v	TMR4240	MARINE CONTROL SYST	1				3	6	3	7,5	x
1v	TTK4190	GUIDANCE AND CONTROL	1				3	2	7	7,5	x
		Compulsory subjects:									
2h	TMR5240	NAUTICAL SCIENCE AC		3	6	3				7,5	x
2h	TMR5250	NAUTICAL SC PROJECT			12					7,5	-
2h	TMR5260	NAUTIC SC SPEC SUBJ		2	8	2				7,5	x
		Weighting compulsory courses		5	26	5				22,5	
		Optional subjects:									
2h	TMR4235	STOCH THEORY SEALOAD	2	3	6	3				7,5	x
2h	TMR5180	CONTROL ENGINEERING	2	3	6	3				7,5	x
2v		Master Thesis								30,0	

Ex 1h = Term 1, Exam Autumn 2005

Ex 1v = Term 2, Exam Spring 2006

Ex 2h = Term 3, Exam Autumn 2006

Ex 2v = Term 4, The Master Thesis Spring 2007.

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- 1) Select 1 of the subjects..
- 2) Select 1 of the subjects.