

A: Mekelweg 2 Z: 2628 CD DELFT T: +31 15 27 88359 E: S.A.Miedema@tudelft.nl

MSC OFFSHORE & DREDGING ENGINEERING 2014-2015

Faculty of Mechanical, Maritime and Materials Engineering

Student name	::	Student number:						
☐ HBO BACHELORS (only for HBO-Bachelors)								
□ " S	CHAKELKLAS" (HBO civil engineering Bachelors):						
	Course code	Course name	ECTS					
	WI1708TH1	Analysis 1	3					
	WI1708TH2	Analysis 2	3					
	WI1708TH3	Analysis 3	3					
	WI1807TH	Linear Algebra 1	3					
	WI1909TH	Differential Equations	3					
	WB1225	Fluid Dynamics	3					
	WI3097TU	Numerical Methods for Differential Equations	4					
	WI1102CT	Probability and Statistics	3					
	CTB1210	Dynamica & Modelvorming	5					

☐ "SCHAKELKLAS" (other HBO engineering Bachelors):

Course code	Course name	ECTS
WI1708TH1	Analysis 1	3
WI1708TH2	Analysis 2	3
WI1708TH3	Analysis 3	3
WI1807TH	Linear Algebra 1	3
WI1909TH	Differential Equations	3
WB1225	Fluid Dynamics	3
WB1216-13	Dynamics 2	3
WB1217	Strength of Materials 2	3
WB2207-07	Systems and Control Engineering	3
MT837	Construction and Strength 2	3
	Total	≥ 30

CORE CURRICULUM (first year)

Course code	Course name				ECTS
OE4605	Introduction ODE				0
OE4606	Introduction to Offshore Engineering				3
OE4607	Introduction to Dredging Engineering				3
OE4630	Offshore Hydromechanics				8
CIE4130	Probabilistic Design				4
□CIE4325	Ocean Waves				6
□CIE43250E	Ocean Waves for Offshore				3
□OE4610-13	Survey of Offshore Engineering Projects	(or OE4611-13)			6
□OE4611-13	Research Exercise	(or OE4610-13)			6
☐AES1730	Introduction to Geotechnical Engineering	(ME/MT students	()		3
□SC4026	Control System Design	(or WB2105mt,	CE students)		3
☐WB2105mt	Control Engineering for MT	(or SC4026,	CE students)		3
				Total	≥ 30

CORE CURRICULUM (second year)

 	(,			
Course code	Course name			ECTS
□OE5680-15	Industrial Practice			15
OE5685-15	Problem Analysis Thesis	(together with OE5690, total 45 ECTS)		15
OE5690-30	Thesis Work	(together with OE5685, total 45 ECTS)		30
			Total	60

Place and date: Signature Professor: Signature student: Examination board:



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Student name:					Student number:			
☐ DREDGING	G ENGIN	NEERII	NG, TR	ENCHING & DEE	EPSEA MINING	(to be signed by Pr	of. dr.ir. C.	van Rhee)
CORE	Course co	nde	Course	name			ECTS	
	OE4625	oue		ng Pumps and Slurry Tr	anchort		4	
	OE4626			ng Processes I	ansport		4	
	OE4627			ng Processes II			3	
	OE4628			Dredging & Offshore I	Enginooring		3	
					rigineering		1	
	OE1402		Total	ng Student Colloquia			15	
RECOM	MENDED	ELECTIV	/ES					
	Course	code	Course	e name			ECTS	
	CIE5			ied Flows			3	
	CIE5			ence in Hydraulics			3	
	OE46			g Structures			4	
	☐ OE46			System Design Princ	inles		3	
	☐ OE46			g Structures	ipies		4	
	L OL40	332	rioatii	ig Structures			4	
						Total		
ELECTI	□ ARC1	FIC ENG Course		NG Course name			ECTS	
		OE4680		Arctic Engineering			4	
		AT327-		Arctic Offshore Engin	eering (Snitshergen)		6	
		A1327-	12	Aretic Offshore Englis	cering (Spitsbergen)	Total	10	
	☐ SUB	CE V						
	30B	Course	code	Course name			ECTS	
		OE4654		Sub Sea Engineering			4	
		OE4653		Marine Pipelines			4	
		014030	,	Warrie Fipelines		Total	8	
Place and date:		Signat	ure Prof	essor:	Signature student:	Examir	ation board	i:



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t name:			Student number:		
OTTOM FOU	NDFD STR	UCTU	RES, ARCTIC & WIND		
CORE				(to be signed by	Prof. dr.
	urse code	Cours	e name		ECTS
	4651		m Founded Structures		6
CIE	4140	Struct	ural Dynamics		4
OE.	4652	Floatii	ng Structures		4
				Total	14
RECOMMEN	DED ELECTI	VES			
	ARCTIC ENG	INEER	ING		
_	Course		Course name		ECTS
	OE4680)	Arctic Engineering		4
	AT327		Arctic Offshore Engineering (Spitsbergen)		6
	OE4629	9	Identification of Loads on Offshore Structures		4
				Total	14
П	OFFSHORE \	VIND F	NERGY		
	Course		Course name		ECTS
	AE3W0		Introduction to Wind Energy		4
	OE5662	2	Offshore Wind Farm Design		4
	OE566!	5	Offshore Wind Support Structures		4
				Total	12
П	SUB SEA				
_	Course	code	Course name		ECTS
	OE465	1	Sub Sea Engineering		4
	OE465	3	Marine Pipelines		4
	OE4629	9	Identification of Loads on Offshore Structures		4
				Total	12
	INTEGRATEI	DESI	GN & MANAGEMENT		
	Course	code	Course name		ECTS
	CIE338		Infrastructure Management		4
	CME23		Financial Engineering		4
	TW202	0	Optimization	T	6
				Total	14
ELECTIVES					FOTO
	urse code		se name		ECTS
	☐ OE4680-12 ☐ OE4629		Engineering fication of Loads on Offshore Structures		4
	OE4624		pre Soil Mechanics		3
			e Pipelines		4
	OE4654		ea Engineering		4
			om Vibrations		3
	-		and Nonlinear Vibrations in Mechanical Systems		3
	CIE5317 Physic		al Oceanography		3
			or Dredging & Offshore Engineering		3
	OE4631		e and Fracture in Marine Structures		3
				Total	
				1000	



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Student name:					Student numbe	r:			
	OFFSH	ORE S	TRUCT	URES		(to be signed by	/ Prof.dr.i	ir. R.H.M.	Huijsmans)
CORE	Course	odo	Course	namo				ECTS	
		oue		Structures				4	
				e Moorings				3	
CORE CORE Course code OE4652 OE5664 OE5663 CIE4140 OE1402 RECOMMENDED ELEC Course code WI4011 OE4628 OE4623 ELECTIVES ARCTIC E Cou OE4 AT3				c Positioning				3	
				ral Dynamics				4	
				ng Student Colloquia				1	
	UE 1402		Atteriuii	ng Student Colloquia			Total	15	
RECOM	MENDED	ELECTIV	/ES				Total	13	
	Course	code	Course	name				ECTS	
				tational Fluid Dynamics	<u> </u>			6	
				Dredging & Offshore				3	
				ystem Design Principle				3	
		,23	Dilve 5	ystem besign minorpie	<u> </u>				
							Total		
ELECTIV	VES								
	☐ ARC	TIC ENG	INEERIN	NG					
		Course	code	Course name				ECTS	
		OE4680)-12	Arctic Engineering				4	
		AT327-1	12	Arctic Offshore Engin	eering (Spitsbergen)			6	
							Total	10	
	☐ SUB								
		Course		Course name				ECTS	
		OE4654		Sub Sea Engineering				4	
		OE4653	1	Marine Pipelines				4	
							Total	8	
Place and date:		Signati	ure Prof	essor:	Signature studen	t:	Examin	ation boa	rd:



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Course code	ne:			Student number:	
Course code	CTURAL D	ESIGN A	ND AI		rof.dr.ir. N
DE4652	ORE		0	· · ·	FOTO
CIE4140 Structural Dynamics 4					
DE4631					
MTS23-S Numerical Methods - Structural 2.5 MT830 Applications of the Finite Element Method 3 Total 16.5 Total 16.5 EXPERT IN STRUCTURAL ANALYSIS (PhD preparation)					
### Applications of the Finite Element Method ### Total 16.5 ### ECOMMENDED ELECTIVES ### ECOMMENDED ELECTIVES ### EXPERT IN STRUCTURAL ANALYSIS (PhD preparation) Course code					
ECOMMENDED ELECTIVES EXPERT IN STRUCTURAL ANALYSIS (PhD preparation) Course code Course name ECTS WB1412 Linear and Nonlinear Vibrations in Mechanical Systems 3 MT835 Hydro-Structural and Hydro-elastic problems 3 CIE5145 Random Vibrations 3 MT816 Composite Structures 2 Total 11 ARCTIC ENGINEERING 4 Course code Course name ECTS OE4680 Arctic Engineering 4 AT-327 Arctic Offshore Engineering (UNIS) 6 OE4629 Identification of Loads on Marine Structures 4 OFFSHORE WIND ENERGY 2 Course code Course name ECTS AE3-WO2 Introduction to Wind Energy 4 OE5662 Offshore Wind Support Structures 4 OE5665 Offshore Wind Support Structures 4 OE5665 Offshore Wind Support Structures 4 OE4653 Marine Pipelines 4 OE4629 Identification of Loads on Marine Structures 4 OE4629 Identification of Loads on Marine Structures 4 OE4629 Identification of Loads on Marine Structures 4 OE4630 Infrastructure Management 4 OE4635 Durability of Offshore Materials 3 INDIVIDUAL PACKAGE Course name ECTS Course code Course name ECTS Course code Course name ECTS Course code Course name ECTS Course code Course name ECTS Course code Course name ECTS OE4635 Durability of Offshore Materials 3 Individual Package Course name ECTS Course code C					_
□ EXPERT IN STRUCTURAL ANALYSIS (PhD preparation) ECTS Course code Course name ECTS WB1412 Linear and Nonlinear Vibrations in Mechanical Systems 3 MT835 Hydro-Structural and Hydro-elastic problems 3 ClE5145 Random Vibrations 3 MT816 Composite Structures 2 Total 11 ARCTIC ENGINEERING Course code Course name ECTS OE4680 Arctic Engineering 4 AT-327 Arctic Offshore Engineering (UNIS) 6 OE4629 Identification of Loads on Marine Structures 4 Total 14 OFFSHORE WIND ENERGY ECTS Course code Course name ECTS A23-W02 Introduction to Wind Energy 4 OE5662 Offshore Wind Farm Design 4 OE5665 Offshore Wind Support Structures 4 Course code Course name ECTS OE4653 Marine Pipelines 4 OE4653 Marine Pipelines 4 OE4629 Identification of Loads on	WITOS	00	Аррііса		
□ EXPERT IN STRUCTURAL ANALYSIS (PhD preparation) ECTS Course code Course name ECTS WB1412 Linear and Nonlinear Vibrations in Mechanical Systems 3 MT835 Hydro-Structural and Hydro-elastic problems 3 ClE5145 Random Vibrations 3 MT816 Composite Structures 2 Total 11 ARCTIC ENGINEERING Course code Course name ECTS OE4680 Arctic Engineering 4 AT-327 Arctic Offshore Engineering (UNIS) 6 OE4629 Identification of Loads on Marine Structures 4 Total 14 OFFSHORE WIND ENERGY ECTS Course code Course name ECTS A23-W02 Introduction to Wind Energy 4 OE5662 Offshore Wind Farm Design 4 OE5665 Offshore Wind Support Structures 4 Course code Course name ECTS OE4653 Marine Pipelines 4 OE4653 Marine Pipelines 4 OE4629 Identification of Loads on	COMMEND	ED ELECTIV	/FS		
Course code				ANALYSIS (DED assessed to a)	
WB1412	☐ E2				ГСТС
MT835					
CIE5145			2		_
MT816 Composite Structures 2 Total 11					
ARCTIC ENGINEERING					
□ ARCTIC ENGINEERING Course code Course code ○E4680 Arctic Engineering 4 AT-327 Arctic Offshore Engineering (UNIS) 6 ○OE4629 Identification of Loads on Marine Structures 4 □ OFFSHORE WIND ENERGY Course code Course name ECTS AE3-WO2 Introduction to Wind Energy 4 ○E5662 Offshore Wind Support Structures 4 ○E5665 Offshore Wind Support Structures 4 □ OE4654 Subsea Engineering 4 ○E4654 Subsea Engineering 4 ○E4629 Identification of Loads on Marine Structures 4 ○E4629 Identification of Loads on Marine Structures Total 12 □ ASSET MANAGEMENT ECTS ○CUrse code Course name ECTS ○CH635 Durability of Offshore Materials 3 ○CH635 Durability of Offshore Materials 3 ○CH635 Course code Course code Course code		W11816		· · · · · · · · · · · · · · · · · · ·	
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OE4680 Arctic Engineering 4 AT-327 Arctic Offshore Engineering (UNIS) 6 OE4629 Identification of Loads on Marine Structures 4 OFFSHORE WIND ENERGY Total 14 OFFSHORE WIND ENERGY ECTS AE3-WO2 Introduction to Wind Energy 4 OE5662 Offshore Wind Farm Design 4 OE5665 Offshore Wind Support Structures 4 OE5665 Offshore Wind Support Structures 4 OE4654 Subsea Engineering 4 OE4653 Marine Pipelines 4 OE4629 Identification of Loads on Marine Structures 4 Total 12 ASSET MANAGEMENT ECTS CIE3380 Infrastructure Management 4 CME2300 Financial Engineering 4 OE4635 Durability of Offshore Materials 3 Total 11 INDIVIDUAL PACKAGE ECTS Course code Course name ECTS CIE3380 Infrastructure Management 4 OE4635 Durability of Offshore Materials 3	☐ A!				
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OE4629 Identification of Loads on Marine Structures Total 14 OFFSHORE WIND ENERGY Course code Course name ECTS AE3-WO2 Introduction to Wind Energy 4 OE5662 Offshore Wind Farm Design 4 OE5665 Offshore Wind Support Structures 12 SUBSEA Course code Course name ECTS OE4654 Subsea Engineering 4 OE4653 Marine Pipelines 4 OE4629 Identification of Loads on Marine Structures 12 ASSET MANAGEMENT Course code Course name ECTS CIE3380 Infrastructure Management 4 CME2300 Financial Engineering 4 OE4635 Durability of Offshore Materials 3 Total 11 INDIVIDUAL PACKAGE Course code Course name ECTS Course code Course name ECTS Course code Course name ECTS CIE3380 Engineering 14 CME2300 Financial Engineering 15 COURSE COURSE COURSE COURSE NAME ECTS COURSE NAME EC					
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□ OFFSHORE WIND ENERGY Course code ECTS AE3-WO2 Introduction to Wind Energy 4 ○E5662 Offshore Wind Farm Design 4 ○E5665 Offshore Wind Support Structures 4 Total 12 SUBSEA Course code Course name ECTS ○E4654 Subsea Engineering 4 ○E4653 Marine Pipelines 4 ○E4629 Identification of Loads on Marine Structures 4 Total 12 □ ASSET MANAGEMENT ECTS Course code Course name ECTS CIE3380 Infrastructure Management 4 CME2300 Financial Engineering 4 OE4635 Durability of Offshore Materials 3 Total 11 □ INDIVIDUAL PACKAGE ECTS		OE4629)		
Course code Course name ECTS AE3-WO2 Introduction to Wind Energy 4 OE5662 Offshore Wind Farm Design 4 OE5665 Offshore Wind Support Structures 4 OE5665 Offshore Wind Support Structures 12 SUBSEA Course code Course name ECTS OE4654 Subsea Engineering 4 OE4653 Marine Pipelines 4 OE4629 Identification of Loads on Marine Structures 4 OE4629 Identification of Loads on Marine Structures 4 Course code Course name ECTS C1E3380 Infrastructure Management 4 CME2300 Financial Engineering 4 CME2300 Financial Engineering 3 OE4635 Durability of Offshore Materials 3 Total 11 INDIVIDUAL PACKAGE Course code Course name ECTS Course code Course name 5 Course code Course name 6 CME2300 Financial Engineering 6 OE4635 Durability of Offshore Materials 5 Course code Course name 6 COURSE COURSE COURSE NAME 5 COURSE CODE COURSE NAME 5 COURSE COURSE NAME 5 COURS				Tot	al 14
AE3-WO2 Introduction to Wind Energy OE5662 Offshore Wind Farm Design OE5665 Offshore Wind Support Structures Total 12 SUBSEA Course code Course name OE4654 Subsea Engineering OE4653 Marine Pipelines OE4629 Identification of Loads on Marine Structures ASSET MANAGEMENT Course code Course name OE4635 Durability of Offshore Materials INDIVIDUAL PACKAGE Course code Course name Course code Course name OE4635 Course name OE4635 Durability of Offshore Materials Total 11	□o	FFSHORE W	VIND E	NERGY	
OE5662 Offshore Wind Farm Design 4 OE5665 Offshore Wind Support Structures		Course	code	Course name	ECTS
OE5665 Offshore Wind Support Structures Total 12 SUBSEA Course code Course name ECTS OE4654 Subsea Engineering 4 OE4653 Marine Pipelines 4 OE4629 Identification of Loads on Marine Structures 4 Total 12 ASSET MANAGEMENT Course code Course name ECTS CIE3380 Infrastructure Management 4 CME2300 Financial Engineering 4 OE4635 Durability of Offshore Materials 3 Total 11 INDIVIDUAL PACKAGE Course code Course name ECTS CIE356 COURSE COURSE NATE AND COURSE NAT		AE3-WC)2	Introduction to Wind Energy	4
SUBSEA Course code Course name ECTS OE4654 Subsea Engineering 4 OE4653 Marine Pipelines 4 OE4629 Identification of Loads on Marine Structures 4 Total 12 ASSET MANAGEMENT Course code Course name ECTS C1E3380 Infrastructure Management 4 CME2300 Financial Engineering 4 OE4635 Durability of Offshore Materials 3 Total 11 INDIVIDUAL PACKAGE Course code Course name ECTS CIE380 Engineering 5 COURSE CO		OE5662	<u>)</u>	Offshore Wind Farm Design	4
□ SUBSEA Course code Course name ECTS OE4654 Subsea Engineering 4 OE4653 Marine Pipelines 4 OE4629 Identification of Loads on Marine Structures 4 Total 12 □ ASSET MANAGEMENT Course code Course name ECTS CIE3380 Infrastructure Management 4 CME2300 Financial Engineering 4 OE4635 Durability of Offshore Materials 3 Total 11 □ INDIVIDUAL PACKAGE Course code Course name ECTS ECTS COURSE code COURSE name ECTS CIE3380 ENGRET STRUCTURE MANAGEMENT STRUCTURE STRU		OE5665	;	Offshore Wind Support Structures	4
Course code Course name ECTS OE4654 Subsea Engineering 4 OE4653 Marine Pipelines 4 OE4629 Identification of Loads on Marine Structures 4 Total 12 ASSET MANAGEMENT Course code Course name ECTS C1E3380 Infrastructure Management 4 CME2300 Financial Engineering 4 OE4635 Durability of Offshore Materials 3 Total 11 INDIVIDUAL PACKAGE Course code Course name ECTS ECTS Course code Course name ECTS COURSE code COURSE name ECTS ECTS ECTS ECTS ECTS ECTS ECTS ECTS				Tot	al 12
OE4654 Subsea Engineering 4 OE4653 Marine Pipelines 4 OE4629 Identification of Loads on Marine Structures 4 Total 12 ASSET MANAGEMENT Course code Course name ECTS C1E3380 Infrastructure Management 4 CME2300 Financial Engineering 4 OE4635 Durability of Offshore Materials 3 Total 11 INDIVIDUAL PACKAGE Course code Course name ECTS ECTS Course code Course name ECTS CETS COURSE COURSE NAME ECTS COURSE CODE COURSE NAME ECTS	□ s	UBSEA			
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OE4653 Marine Pipelines 4 OE4629 Identification of Loads on Marine Structures 4 Total 12 ASSET MANAGEMENT Course code Course name ECTS CIE3380 Infrastructure Management 4 CME2300 Financial Engineering 4 OE4635 Durability of Offshore Materials 3 Total 11 INDIVIDUAL PACKAGE Course code Course name ECTS ECTS CIE300 Financial Engineering 4 CME2300 Financial Engineering 5 COURSE COURSE COURSE MATERIAL STORY ECTS COURSE CODE COURSE NAME ECTS					
OE4629 Identification of Loads on Marine Structures ASSET MANAGEMENT					4
ASSET MANAGEMENT Course code Course name ECTS C1E3380 Infrastructure Management 4 CME2300 Financial Engineering 4 OE4635 Durability of Offshore Materials 3 Total 11 INDIVIDUAL PACKAGE Course code Course name ECTS				·	4
Course code Course name ECTS CIE3380 Infrastructure Management 4 CME2300 Financial Engineering 4 OE4635 Durability of Offshore Materials 3 Total 11 INDIVIDUAL PACKAGE Course code Course name ECTS					al 12
Course code Course name ECTS CIE3380 Infrastructure Management 4 CME2300 Financial Engineering 4 OE4635 Durability of Offshore Materials 3 Total 11 INDIVIDUAL PACKAGE Course code Course name ECTS	□ A	SSET MANA	GEMEN	ит	
CME2300 Financial Engineering 4 OE4635 Durability of Offshore Materials 3 Total 11 INDIVIDUAL PACKAGE Course code Course name ECTS		Course	code	Course name	ECTS
OE4635 Durability of Offshore Materials 3 Total 11 INDIVIDUAL PACKAGE Course code Course name ECTS				Infrastructure Management	4
OE4635 Durability of Offshore Materials 3 Total 11 INDIVIDUAL PACKAGE Course code Course name ECTS		CME230	00		4
Total 11 □ INDIVIDUAL PACKAGE Course code Course name ECTS		OE4635	5		3
Course code Course name ECTS				•	
Course code Course name ECTS	□ ! !	NDIVIDUAL	. PACK	IGE	
Total					ECTS
Total					
Total					
Total				Tot	al



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Student name:					Student number:				
_	S FOR	OFFSH	ORE S	TRUCTURES		(to be signed l	by Prof.	dr. I.M. R	ichardson
CORE	Course o	odo.	Course	nama				ECTS	
	OE4632	oue	Course	re Materials				3	
	OE4632							3	
	OE4634			g of Offshore Materials e Mechanics in Offshor				3	
	OE4635							3	
				ity of Offshore Materia					
	OE4631		Total	and Fracture in Marin	e Structures			3 15	
RECOM	MENDED	ELECTIV					,		
	Course	code	Course	e name				ECTS	
	CIE5			Reinforced Polymer	Structures (FRP)			3	
	CIE				Aluminium Structures			4	
	CIE5				Non-Linear Solid Med	chanics		3	
							Total		
ELECTI	VES								
	□ ABC	TIC ENG	INEEDII	NC					
		Course		Course name				ECTS	
		OE4680		Arctic Engineering				4	
		AT327-			neering (Spitsbergen)			6	
		A1327-	12	Arctic Offshore Engli	leering (Spitsbergen)		Total	10	
							rotar	10	
	☐ SUB	SEA							
		Course	code	Course name				ECTS	
		OE4654	1	Sub Sea Engineering	1			4	
		OE4653	3	Marine Pipelines				4	
							Total	8	
Place and date:		Signat	ure Prof	essor:	Signature student:	!	Examina	ation board	d: