

# Water Management

Aquatic Ecotechnology

Delta Management

Information for exchange student

2021-2022





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## General information for exchange students in the programme Water Management

Exchange students can either choose to follow courses from our Water Management programme or work on a real project (30ECTS) related to our study programme.

#### **Courses in English**

The Bachelor study of Water Management is a four year, applied bachelor study programme. Exchange students choose from a number of courses from the study programme with a total study load of 30 ECTs per semester.

Semesters 3, 5 and 7 are from 1<sup>st</sup> of September up to end of January (fall semester). Semesters 2, 4 and 6 from 1<sup>st</sup> of February to end of June (spring semester).

#### English courses offered in 2 specializations.

The Bachelor of Water Management is one study programme with two different specializations, Aquatic Ecotechnology and Delta Management.

If you choose for different courses from both specializations we advise to choose all courses from the same semester of one academic year and one specialization, to prevent that courses overlap in the schedule. If you choose a mixture of two or even more semesters the lectures might be scheduled at the same time. It is most of the time not possible to attend all lectures. Therefore, we advise you to have extra courses in your Learning Agreement, which have been approved by your home institute, so that you have a 'back up' plan if courses do overlap in the schedule.

More detailed info on the study programme can also be found here

Semester	Course code	Course name	ECTS
3		Ecological Water Quality	12.5
		Water Pollution and Treatment	12.5
4		Hydrology	12.5
		Ecological Engineering	12.5
7		Integrated Coastal Challenge (multi-	10
		disciplinary project) <sup>*</sup>	
		Aquaculture	10
		Ecological Risk Assessment	10
		Advanced Water Technology	10
		Urban Water and Asset Management	10

#### **Course offer Specialization Aquatic Ecotechnology:**

Detailed course descriptions for as from page 5.





#### **Course offer Specialization Delta Management:**

Semester	Course code	Course name	ECTS
3		Vision development (applied in European	15
		Deltas)	12,5
		Adaptive Planning for Climate Change (applied	
		in European Deltas)	
4		Integrated Risk Assessment for delta areas	12,5
		(applied in Mississippi Delta)	12,5
		Strategic planning for resilient deltas (applied	
		in Mississippi delta)	
7		System analysis & Planning for circularity	20
		(applied in Mekong Delta)	
		Coastal Challenge	10

Detailed course descriptions as from page 18.

#### **Optional courses especially for international students**

CU34638	Dutch Culture & Languages	2 ECTS
This course will	be offered at the Vlissingen Can	npus.
VCC3842	Peer project	1.25 ECTS
The Peer project	ct is to improve contact between	Dutch and foreign students at HZ. Dutch students help
foreign student	s to settle in Vlissingen so that t	hey have a good time in Holland and at HZ. Experiences
and friendship	gathered by this project will hop	efully enable Dutch students to study in other countries
as well.		

#### **Projects of 30 ECTS**

You will work on and gain experience in a real project (30 ECTS). Stakeholders and experts from the work field are looking forward to collaborate with you and to find solutions to the challenges they currently encounter. Your contribution will be of direct use to them, and future minor participants will build on your results.

Topics related to our Water management programme are;

- Building with Nature
- Climate Adaption (formerly known as Water Safety & Spatial Planning)
- Water Technology
- Aquaculture

To work on a project an application must be handed in before May 1<sup>st</sup> (fall semester) or November 1<sup>st</sup> (spring semester); a limited number of places is available. Students have to submit a motivation letter and may be asked to do a Skype interview in order to be selected to join the Research minor.

More detailed information on these projects can be found <u>here</u> under "projects".





# Courses offered within the Water Management programme – Aquatic Ecotechnology

#### Semester 3

### Module 5 (AET): Ecological Water Quality

-													
CU20	<b>590v</b> 1	1   '	Title:	Concepts of e	cological water quality		Number of E	Cs: 5.0 Man	datory	Teachir	ng language:		
		(	Conta	ict hours: 44			English						
Cond	Conditions of participation: not applicable												
Speci	Special condition for awarding study points (tick-box test): not applicable												
Brief	Brief description of the course content: You will deal with an important water issue: water quality. In this module you also learn how to monitor, analyze causes and effects of												
chang	es in v	water	quali	ty. And what tl	ne ecological principles (interaction between cher	mistry and biology) are b	ehind it and ho	w these are rela	ated to different	t water syste	ms like rivers,		
lakes,	estua	aries a	nd se	as. In this cou	rse 'concepts', you also learn what policy tools, l	ike European Water Fran	nework Directiv	/e , are used to	access the quali	ity of water b	odies and the		
appro	priate	e mea	sures	to be taken.									
Test	Form	m			Subtask	Weighting	Minimum	<b>Planned test</b>	Inspection	Resit	Inspection of		
no. factor score in week of work							of work	planned	resits				
in week in w									in week				
	V	W	0	Form									
1		х		Exam (I)	1.1 (table 1) Ecological water quality	100%	5.5	Wk 43	Wk 44	Wk 45	Wk 47		





CU20	<b>591v</b> 1	1 '	Title	: Applied ecolo	gical water quality			Number	of ECs: 5.0	Mandatory	Теа	ching language:	
			Con	tact hours: 44							Dut	ch / English	
Conditions of participation: not applicable													
Special condition for awarding study points (tick-box test): not applicable													
Brief	3rief description of the course content: You will deal with an important water issue: water quality. In this course 'applied' you will apply the knowledge and skills from the												
other	other two courses 'concepts' and 'in practice' in specific water systems. Meaning that you will prepare and carry out ecological water quality measurements in the field.												
Identi	fy the	e orga	anisi	ms found and a	nalyze physical, chemical and biologica	l data. And b	based on preva	ailing policy inst	ruments ind	icate the qual	ity. Finally you a	ire asked to	
evalua	ate w	/hat a	ppro	opriate measure	es can be taken to improve the ecologi	cal water qu	ality.						
Test	Form	m			Subtask	Weighting	Minimum	Planned test	Inspection	of work	Resit planned	Inspection of	
no.						factor	score	in week			in week	resits	
	in week									in week			
	V	W	0	Form									
1	x	х		Project (I)	2.1, 3.1, 4.1, 8.1, 8.2, 8.4 (table 1)	100%	5.5	Wk 43	Wk 44		Wk 45	Wk 47	

CU205	592v1	L   1	Title	: Ecological wate	r quality in practice			Number	of ECs: 2.5	Mandatory	Теа	ching language:	
			Cont	act hours: 22							Dut	ch / English	
Condi	Conditions of participation: Agreement to laboratory instructions												
Special condition for awarding study points (tick-box test): not applicable													
Brief	Brief description of the course content: You will deal with an important water issue: water quality. In this course ' in practice', you will learn specific tools to assess the water												
qualit	quality based on the presence of organisms and pigments. Apart from that you learn in an experimental setting how the role of specific organisms like filter feeders, in the												
food o	chain	can b	e de	etermined based	on the processes measured. And ye	ou will work w	ith a computer	model, used ir	n water man	agement pract	tice, to analyze	causes and	
feasib	le me	easur	es to	improve water o	quality in lakes.								
Test	Form	n			Subtask	Weighting	Minimum	Planned test	Inspection	of work	<b>Resit planned</b>	Inspection of	
no.	factor score				score	in week			in week	resits			
											in week		
	V	W	0	Form									
1		х		Practicals (I)	6.1 (table 1)	100%	5.5	Wk 43	Wk 44		Wk 45	Wk 47	





#### Module 6 (AET): Water Treatment

CU20	593v:	1 -	Title:	Concepts of w	ater pollution and treatment			Number	of ECs: 5.0	Mandatory	Теа	ching language:	
			Conta	ict hours: 55							Eng	glish	
Condi	Conditions of participation: not applicable												
Specia	Special condition for awarding study points (tick-box test): not applicable												
Brief	Brief description of the course content: In this module, you will investigate the possibilities of combatting poor water quality with various treatment techniques. During this												
modu	ile yo	u will	learn	about the wa	iter system and how to monitor its st	atus. You will	use calculation	is to determine	the effect o	f different disc	charges on a wa	ater system and	
how y	/ou ca	an lim	it the	ese effects through	ough water treatment. Treatment typ	pes that will be	e investigated	include biologic	al, chemical	and physical.			
Test	For	m			Subtask	Weighting	Minimum	Planned test	Inspection	of work	Resit planned	Inspection of	
no.						factor	score	in week			in week	resits	
	in week										in week		
	V	W	0	Form									
1	x     Exam (I)     1.1, 1.2, 1.3 (table 1)     100%     5.5					5.5	Wk 2	Wk 3		Wk 15	Wk 17		

CU205	<b>595v1</b> Title: Applications of water pollution and treatment						Number	of ECs: 5.0	Mandatory	Teachin	ig language:		
		(	Cont	tact hours: 50						English			
Condi	Conditions of participation: Abiding by laboratory instructions and behaving safely in the lab												
Specia	Special condition for awarding study points (tick-box test): not applicable												
Brief o	Brief description of the course content: In the 'Applied' project, you will work on a problem for a local company to help them to try and solve a water quality issue that they												
have,	by pr	oduc	ing a	a design for a tre	atment technique. You will report your results and fina	al design bacl	to the com	pany at the ei	nd of the project	t.			
Test	Form	n			Subtask	Weighting	Minimum	Planned test	t Inspection	Resit planned	Inspection of		
no.						factor	score	in week	of work	in week	resits		
	in week									in week			
	V	W	0	Form									
1	х	х		Project (I)	1.2, 1.3, 2.1, 4.1, 6.1, 7.1, 8.1, 8.2, (table 1)	100%	5.5	Wk 2	Wk 3	Wk 4	Wk 6		





CU20	594v1	1 .	Title	: Water pollution	and treatment in practice			Number	of ECs: 2.5	Mandatory	Теа	ching language:	
		(	Cont	act hours: 22							Eng	lish	
Cond	Conditions of participation: Abiding by laboratory instructions and behaving safely in the lab												
Special condition for awarding study points (tick-box test): not applicable													
Brief in the water	<b>Brief description of the course content:</b> During the 'In practice' lab sessions you will learn how to perform water quality analysis of certain essential water quality parameters in the world of water treatment. Besides the lab skills you learn to use balances to analyze a water system. Water and mass balances will be applied to analyze both natural water systems and a waste water treatment system. You also learn to use some analysis tools in GIS.												
Test	Form	m			Subtask	Weighting	Minimum	Planned test	Inspection	of work	Resit planned	Inspection of	
no.						factor	score	in week			in week	resits	
	in week									in week			
	v	W	0	Form									
1		х		Practicals (I)	6.1. (table 1)	100%	5.5	Wk 2	Wk 3		Wk 4	Wk 6	





#### **SEMESTER 4**

## Module 7 (AET): Hydrology

<u></u>	CA 4	Number of ECs: 5.0 Mandatory Teaching language:											
CU20	611V:	3	litle:	Concepts of hydro	ology			Number	of ECs: 5.0	Mandatory	lea	aching language:	
		(	Conta	ict hours: 38							Du	tch / English	
Cond	Conditions of participation: not applicable												
Special condition for awarding study points (tick-box test): not applicable													
Brief	Brief description of the course content: This course is explaining the theory about rural water requirements in polders; water in the saturated and unsaturated zone,												
mana	nanaging the water levels, small hydraulic structures; wetlands.												
Test	Forr	Form Subtask Weighting Minimum							Inspection	of work	Resit planned	I Inspection of	
no.						factor	score	in week			in week	resits	
												in week	
	V	w	0	Form									
1			х	Exam (I)	1.1 (table 1) Open channel	20%	5.5	Wk 7	Wk 9		Wk 15	Wk 17	
					hydraulics								
2		х		Exam (I)	1.1 (table 1) Polder hydrology	70%	5.5	Wk 13	Wk 14		Wk 15	Wk 17	
3			х	Assignmnt (G)	1.1 (table 1) Polder hydraulics	10%	5.5	Wk 9	Wk 11		Wk 15	Wk 17	

CU206	5 <b>16</b> v2	1 1	۲itle	Applied hydro	logy		Number	of ECs: 5.0	Mandatory	Теа	ching language:		
			Cont	tact hours: 20							Du	tch / English	
Conditions of participation: not applicable													
Specia	Special condition for awarding study points (tick-box test): not applicable												
Brief o	Brief description of the course content: In this course the rural water problems of water excesses and fresh water shortages in the delta are explored. The course focusses on												
desigr	ning v	water	solu	utions for stakel	holders in agriculture.								
Test	For	m			Subtask	Weighting	Minimum	Planned test	Inspection	of work	Resit planned	Inspection of	
no.						factor	score	in week			in week	resits	
												in week	
	V	W	0	Form									
1	х	х		Project (I)	1.2, 1.3, 2.2, 8.3, 9.1, 9.3 (table 1)	100%	5.5	Wk 14	Wk 14		Wk 15	Wk 17	





CU20	615v	1 .	Title	Hydrology in pr	actice			Numbe	r of ECs: 2.5	Mandatory	Те	aching language:
			Con	tact hours: 22							Du	itch / English
Condi	itions	s of pa	artic	ipation: not appl	licable							
Specia	al co	nditio	n fo	or awarding study	y points (tick-box test): not application	ble						
Brief	rief description of the course content: In this course you will learn how to work with two software systems; a system to model hydraulic water systems 'Sobek' and a GIS											
syster	ystem 'ARC GIS'.											
Test	For	m			Subtask	Weighting	Minimum	Planned tes	Inspection	n of work	Resit planne	d Inspection of
no.						factor	score	in week			in week	resits
												in week
	v	W	0	Form								
1		х		Practicals (I)	2.2, 6.1 (table 1)	100%	5.5	Wk 13	Wk 14		Wk 15	Wk 17





#### Module 8 (AET): Eco Engineering

CU20	617v3	3 -	Title:	Concepts of Eco I	Engineering			Number	of ECs: 5.0	Mandatory	Теа	ching language:
			Conta	act hours: 38							Dut	tch / English
Condi	itions	s of pa	articip	bation: not applic	able							
Specia	al cor	nditio	n for	awarding study p	ooints (tick-box test): not applicat	ble						
Brief	Brief description of the course content: In concepts you will get insight in coastal protection trough measures that are based on natural materials and processes, that also											
increa	increase the landscape and natural values of the area. The focus is on the interactions and feedback loops between hydrology (waves, tides, currents), morphology (sediment											
transp	transport, erosion, sedimentation) & ecology (adaptations of species to harsh environments, biodiversity, ecosystem engineers as oysters and mussels).											
Test	Form	m			Subtask	Weighting	Minimum	Planned test	Inspection	of work	Resit planned	Inspection of
no.						factor	score	in week			in week	resits
												in week
	v	w	0	Form								
1			х	Exam (I)	1.1 (table 1) Ethics	20%	5.5	Wk 21	Wk 22		Wk 26	Wk 28
2		х		Exam (I)	1.1 (table 1) Eco engineering	80%	5.5	Wk 24	Wk 25		Wk 26	Wk 28

CU20	6 <b>20</b> v3	3 1	Title	: Applied Eco	Engineering			Number of ECs: 5.0	Mandatory	Теа	ching language:	
		(	Con	tact hours: 20						Dut	ch / English	
Condi	tions	ofpa	rtic	<b>ipation:</b> not a	pplicable							
Specia	Special condition for awarding study points (tick-box test): not applicable											
Brief	Brief description of the course content: In applied you will come up with an own experimental design in a research setting to tackle coastal safety issues and to increase											
biodiv	biodiversity in the Dutch delta. You will work in small groups to analyze maps and data and come up with new ideas for further research.											
Test	Forr	n			Subtask	Weighting	Minimum	n Planned test	Inspection	Resit planned	Inspection of	
no.						factor	score	in week	of work	in week	resits	
											in week	
	V W O Form											
1	х	x		Project (G)	2.1, 6.1, 7.3, 8.2, 9.2 (table 1)	20%	5.5	Wk 20-25	Wk 20-22	Wk 23	Wk 28	
2		x		Project (G)	2.1, 6.1, 7.1, 7.3, 8.2, 8.3, 9.2 (table 1)	80%	5.5	Wk 20-25	Wk 20-25	Wk 26	Wk 28	





CU20	618v:	1 .	Title:	Eco Engineering	; in practice		Number of E	Cs: 2.5 Ma	andatory	Teachir	ig language:
			Conta	ict hours: 22						Dutch /	' English
Condi	itions	s of pa	articip	<b>bation:</b> not appl	icable						
Specia	al cor	nditio	n for	awarding study	points (tick-box test): not applicable						
Brief	rief description of the course content: You will practice with several eco-engineering tools like the Coastal Hazard Wheel, building with eco-engineers and the hypsometric										
curve	curve. You will apply this in several research cases.										
Test	For	m			Subtask	Weighting	Minimum	Planned tes	st Inspection	Resit	Inspection of
no.						factor	score	in week	of work	planned	resits
	in week in week									in week	
	۷	W	0	Form							
1		х		Practicals (I)	2.1, 6.1 (table 1) Weekly assignments	100%	5.5	Wk 16 - 24	Wk 18 – 24	Wk 26	Wk 28





#### SEMESTER 7 (AET)

CU20	)700	/1	Titl	e: Advanced Water Technology		Number of	Elective		Teaching langu	age: English			
			Cor	ntact hours: 90			ECs: 10.0						
Cond	litior	s of	parti	cipation:									
	. 7	The c	- ourse	e will only be aiven if at least 8 stu	udents subscribe for this elective o	course							
	• 4	Prone	pdeut	ic exam passed									
		At lea	nst 17	20 FC obtained (including provisio	nal credits)								
		nteri	nshin	OR Minor nassed	nar er caresy								
		\nnli	cants	should have completed AFT cour	rse: Water Pollution and Treatme	nt (C1120593)	or CE: Sanita	v Engineering	n (CI 123880)				
Snec	ial co	ndit	ion f	or awarding study points (tick-br	<b>stest):</b> not applicable	11 (020333)	or ce. sumu	y Engliteening	(023000)				
Spee		man		or awarding study points (lick be	<b>ix testj.</b> not applicable								
Brief	Brief description of the course content: This course will build on the students' existing basic knowledge of wastewater treatment theory and technologies used. During this												
cours	course the student will learn to determine what water quality measurements are needed for a specific water source and desired water product and they will be able to set up												
cours	course the student will learn to determine what water quality measurements are needed for a specific water source and desired water product and they will be able to set up												
a wai	ter tr	eatn	nent	scheme to treat the water from c	luality A (source) to quality B (pro	auct). Once t	ney nave set t	p a theoretic	al treatment s	cheme, they will	also learn now to		
calcu	late	the v	vater	balance, water recovery and how	w to monitor the system on main	performance	parameters, i	ncluding stati	stical analysis	and optimisation	1.		
	-												
Test	FOI	m			Subtask	Weighting	Minimum	Planned	Inspection	Resit planned	Inspection of		
no.						factor	score	test in	of work	in week	resits		
	in week in week												
	V	W	0	Form									
-													
1		х		Concepts of Advanced Water	1.1, 6.1 (Table 1)	25%	5.5	Wk 38 - 43	Wk 38 - 43	Wk 45 - 46	Wk 45 - 46		
				Technology: Portfolio									
2		х		Applications of Advanced	1.1, 1.2, 1.3, 2.1, 2.2, 3.1, 6.1,	50%	5.5	Wk 2	Wk 3	Wk 4	Wk 6		

2xApplications of Advanced<br/>Water Technology: Portfolio1.1, 1.2, 1.3, 2.1, 2.2, 3.1, 6.1,<br/>7.1 (Table 1)50%5.5Wk 2Wk 3Wk 4Wk 63xAdvanced Water Technology<br/>in Practice: Portfolio1.1 (Table 1)25%5.5Wk 49Wk 50Wk 2Wk 4





CU79	044 <sup>.</sup>	v1	Title: Ecological Risk Assessment		N	umber of EC	s: Ele	ctive	Teaching lan	guage: ENG			
			Contact hours: 35 contact hours eco	toxicology theory, 15 contact ho	ours for 1	0.0							
			practicals ecotoxicology, 20 contact	hours Environmental Impact									
			Assessment.										
Cond	itior	ns of I	participation:										
•		The co	ourse will only be given if at least 8 stu	dents subscribe for this elective	course								
•		Prope	deutic exam passed										
•		At lea	st 120 EC obtained (including provision	nary credits)									
•	· 1	ntern	ship										
•		OR M	linor passed										
Speci	al co	onditi	on for awarding study points (tick-bo	<b>x test):</b> not applicable									
Brief envir skills studie effect tissue what impa Test no.	rief description of the course content: During the course, you will make an ecological risk assessment on a project that is being carried out or planned and can have an nvironmental impact. Examples of these projects are dumping of polluted dredging sludge or the use of LD steel slag as substrate for dikes. For this, practical laboratory kills and theoretical knowledge about ecotoxicology is necessary in order to analyse and predict adverse effects of pollution on the aquatic environment. Effects will be tudied at different levels, in particular from the level of molecules to the level of ecosystems. In order to come up with a well-founded conclusion on ecotoxicological ffects, you need knowledge on the behaviour of chemical substances in the abiotic and biotic environment. The biotic environment can be studied at the level of the cell, ssue, organism, population, community or ecosystem. You will learn what guiding principles are in environmental policy on different levels (UN, EU, national, regional) and that legal policy instruments are, which are used in practise. For the legal instrument environment al impact assessment (EIA) you will go through the whole procedure of an npact assessment, in different roles by means of a case study. In such a way you learn the pro's and con's of EIA.Planned Inspection of workInspection of resitsInspection of resits												
	v	wc	) Form				week			III week			
1		х	mid-term exam: Ecotoxicology (I)	1.1, 1.3, 5.1, 7.2 (table 1)	30%	5.5	Wk 43	Wk 44	Wk 45	Wk 47			
2		Х	Practical: Ecotoxicology (G)	2.1, 3.1, 4.1 , 6.1, 7.3 (table 1)	25%	5.5	Wk 3	Wk 5	Wk 15	Wk 17			
3		х	Report: Environmental Impact Assessment (G)	2.1, 2.2, 3.1, 6.1, 7.2, 8.2, 9.2 (table 1)	30%	5.5	Wk 3	Wk 5	Wk 15	Wk 17			
4			Literature review (I)	1.1, 7.1, 7.2 (table 1)	15%	5.5	Wk 42	Wk 44	Wk 4	Wk 6			





CU79	043	v1	Titl	e: Aquaculture			Number of	ECs:	Elective	Teachir	ng language: English			
			Cor	itact hours: 88			10.0							
Cond	litio	ns of	parti	cipation:						·				
•		The c	ourse	e will only be given if at least 8 st	udents subscribe for this el	lective course								
•		Prope	edeut	ic exam passed										
•	•	At lea	ast 12	0 EC obtained (including provision	onary credits)									
•		Inter	nship	OR Minor passed										
Speci	ial c	ondit	tion fo	or awarding study points (tick-b	ox test):									
•		Intro	ducto	ry case study (G): oral presentat	ion about history, biology,	cultivation pra	ctices, susta	inability and	d pricing of a cho	osen aquaculture	organism. Content: 1.1,			
		7.1, 7	7.2											
	•	Excui	rsions	(I): participation mandatory			<u> </u>							
Brief	des	cript	ion of	the course content: This introd	uctory course to aquacultu	are is an electiv	/e course, in	which the f	ocus primarily w	ill be on the cult	ivation of saltwater			
orgar	nism	is and	d the	setup of an aquaculture busines:	s case. More and more she	ellfish and fish,	crops like Sa	licornia, an	d also for instan	ce ragworms are	being cultivated under			
contr	olle	d circ	cumst	ances. There is also a large secto	or still cultivating in natural	l areas, which l	brings its ow	n challenge	s. The large amo	unt of input fror	n experts of the sector			
(gues	guest lectures and excursions) in this course and the various case studies and current research mean you will get a good impression of all the different aspects of													
aqua	aquaculture, both in the Netherlands as well as globally. You will learn about the biology of cultured organisms, the technical aspects of culturing (reproduction), the													
cultiv	cultivation systems, sustainability of aquaculture, legislation, animal welfare, health management and economic aspects. In addition you will get a taste for cost price													
calcu	calculations, how to make a financial business plan, and how to bring your chosen product to the market.													
	-									<u> </u>				
Test	Fo	rm			Subtask	Weighting	Minimum	Planned	Inspection	Resit planned	Inspection of			
no.						factor	score	test in	of work	in week	resits			
	v	۱۸/	0	Form				week			п week			
	v	vv	U	Form										
1		х		Final exam (I) Concepts of	1.1, 1.2, 7.2 (table 1)	25%	5.5	Wk 2	Wk 3	Wk 4	Wk 6			
				Aquaculture										
2		х		Business plan (G)	2.1, 2.2, 3.1, 7.3, 8.1,	40%	5.5	Wk 2	Wk 3	Wk 4	Wk 6			
					8.2, 8.3, 9.5, 9.6									
					(table 1)									
3		х	х	Practical mini farm (I)	1.3, 2.2, 5.1, 8.2, 8.3	25%	5.5	Wk 48	Wk 49	Wk 3	Wk 5			
					(table 1)									
4	x	х		Poster international – peer	1.1, 1.2, 1.3, 8.4	10%	5.5	Wk 50	Wk 51	Wk 3	Wk 5			
				review (G)	(table 1)									





CU79	087\	/1	Tit	le: Urban Water Managemer	ıt		N	umber of ECs: 10	0 Elective	Te	eaching language:			
			Со	ntact hours: 72						EI	nglish			
Condi	tion	s of	par	ticipation to the exam:										
•		The	cou	rse will only be given if there a	re sufficient applications for	it.								
•	•	Prop	bede	eutic exam passed										
•	•	At le	ast	120 EC obtained (including pro	ovisionary credits)									
•	•	Inte	rnsh	ip OR Minor passed										
Specia	al co	ndit	ion	for awarding study points (tio	<b>k-box test):</b> none									
Brief	Brief description of the course content:													
Sewer	Sewer systems are critical infrastructures from technical, environmental and management viewpoints. The course takes advantage of this scenario to develop several cross-													
discip	line	and	trar	nsferable skills. About 60% of t	he course focuses on sewer s	systems design,	from the calc	ulation of wastew	ater and rainwat	er input to the sizi	ng of the ducts and			
the pu	ump	ing s	tati	ons. This requires applying the	e theory proactively and tailor	ring the solution	n to the partic	ular case study, a	s the design cann	ot rely on compre	hensive manuals such			
as the	as the Eurocode.													
roper	roper design, construction and functioning of sewer systems are crucial in order to avoid pollution of soil and water. The remaining 40% of the course deals with management and													
maint	maintenance, which is complicated due to the infrastructure being underground and prone to deteriorating. You will learn how to apply Asset Management skills, from the													
underlying way of thinking to technical in-depth knowledge on how to recover aging infrastructures. The best Engineers have knowledge about all aspects of the complete life cycle														
of infrastructure.														
This c	ours	e ha	is be	en developed in cooperation	with the asset management r	esearch group	of HZ and exte	ernal experts from	the professiona	field.				
Test	Fo	rm			Subtask	Weighting	Minimum	Planned	Inspection	Resit planned	Inspection of			
no.						factor	score	test in	of work (< 10	in week	resits			
								week	working days		in week			
									after receiving					
			~	<b>F</b>					grade)					
4	V	W	0	Form	44 24 22 24 72 04	2004		N/L 42	\\/. 44					
1		х		Portfolio sewer systems	1.1, 2.1, 2.2, 3.1, 7.2, 8.1	30%	5.5	WK 43	WK 44	WK 45	WK 46			
				design	(table 1)									
2		v		Deutfalia esset	111241510202	200/		) A ( + 2	\\//L 2					
2		х			1.1, 1.3, 4.1, 5.1, 8.2, 9.2 (table 1)	30%	5.5	VVK Z	VVK 3	VVK 4	VVK b			
2		v				400/		) A ( + 2	M/L 2					
3		х		Final exam	1.1, 1.3, 2.1, 2.2, $3.1$ , $4.1$ ,	40%	5.5	VVK Z	VVK 3	VVK 4	VVK b			
					5.1 (table 1)									





CU79	085	/1	Tit Co	le: Integrated coastal challe ntact hours: 100	nge		Ν	umber of ECs: 10	.0 Mandator	y T Ia	eaching anguage: English
Condi	tior	is of	f pa	rticipation to the exam:							
•	F	Prop	bed	eutic exam passed							
•	ļ	۹t le	east	120 EC obtained (including	provisionary credits)						
•	I	nte	rnsl	hip OR Minor passed							
Specia	al co	ondi	itio	n for awarding study points	s (tick-box test): none						
<b>Brief</b> from design	deso diffe n the	eren eren e pr	tior nt st oje	n of the course content: In t sudy programs. The coastal o ct as well as learn and apply	his course, you will devel challenge is based on the tools for communicatior	op abilities to principles of I n, collaboratio	work in a mu CZM which w n, manageme	ultidisciplinary en vill be applied in ent and innovatic	vironment. Yo a real-life case n.	u will work in a project. You wi	group with colleagues Il initiate and
Test no.	gn the project as well as learn and <b>Form</b>				Competence/subtask	Weighting factor	Minimum score	Planned Ir test in o week w ai	spection work (< 10 orking days ter receiving ade)	Resit planned in week	Inspection of resits in week
	V	w	0								
1	х		х	Professional development (individual)	8; 9 (table 3)	40%	5.5	Wk 3 W	'k 3	Wk 4	Wk 6
2		х	Х	Final product(s) (group)	1; 2; 3; 7.1; 8 (table 3)	40%	5.5	Wk1 W	′k 2	Wk 3	Wk 4
			-								





# Courses offered within Water Management programme – Delta Management

#### Module 5 (DM): Vision Development

CU79	025v:	1   1	Title:	Vision develo	pment theory			Number	of ECs: 3.0	Mandatory	Te	aching language:
			Conta	act hours: 26							En	glish
Condi	Conditions of participation: not applicable											
Specia	pecial condition for awarding study points (tick-box test): not applicable											
Brief	rief description of the course content: This course covers theories about vision development. You will learn how to formulate a vision by using scenarios based on different											
uncer	uncertainties and driving forces. Furthermore you learn about the management of these processes (embedded within the Environmental and Development Act), stakeholder											
partic	varticipation and communication with different target groups.											
Test	For	m			Subtask	Weighting	Minimum	Planned test	Inspection	of work	Resit planne	d Inspection of
no.						factor	score	in week			in week	resits
												in week
	V	W	0	Form								
1		x		Exam (I)	1.1, 1.2, 2.2, 8.4 (table 2)	100%	5.5	Wk 42	Wk 43		Wk 44	Wk 46

CU79	026v	1	Title	: Research methodology	y I			Number	of ECs: 2.5	Mandatory	Te	aching language:	
			Con	tact hours: 22							En	glish	
Cond	itions	ofpa	artio	cipation: not applicable				·		•	· · · ·		
Speci	ial cor	nditio	n fo	or awarding study points	s (tick-box test): not applica	ble							
Brief	descr	riptio	n of	the course content: Thi	s course covers the first ste	ps of the rese	arch cycle till th	e research pro	posal. Resea	arch cyclus; 1]	Basics (backgro	ound information,	
probl	problem statement, objective and research questions, planning), 2] Data collection methods, 3] Theoretic Framework. You will conduct a research proposal by assignments												
(pract	practical's) which you have to hand in a portfolio. The research proposal will be assessed by an assessment form.												
Test	For	m			Subtask	Weighting	Minimum	Planned test	Inspection	n of work	Resit planned	Inspection of	
no.						factor	score	in week			in week	resits	
												in week	
	V W O Form												
1		х		Portfolio(I)	6.1, 7.1, 7.2, 7.3 (table 2)	30%	5.5	Wk 42	Wk 43		Wk 44	Wk 46	
2		х		Research proposal (I)	6.1, 7.1, 7.2, 7.3 (table 2)	70%	5.5	Wk 41	Wk 43		Wk 44	Wk 46	





CU79	027v1	1	Title	: Statistics for Climate Chan	ige			Number	of ECs: 1.0	Mandatory	Te	eaching language:	
		(	Cont	tact hours: 9							Er	nglish	
Condi	tions	ofpa	artic	ipation: not applicable									
Specia	al cor	nditio	n fo	r awarding study points (ti	ck-box test): for this co	urse MS Excel i	is required						
Brief	Brief description of the course content: In this course you will learn how to gather reliable data for statistical analysis, how to setup an applicable dataset in MS Excel and to												
condu	onduct a statistical significant trendline graph out of these data, to apply in your (area) vision. Course will be assessed by a portfolio of assignments of each week and a												
comp	computer assignment												
Test	For	m			Subtask	Weighting	Minimum	<b>Planned test</b>	Inspection	n of work	Resit planne	d Inspection of	
no.						factor	score	in week			in week	resits	
												in week	
	V W O Form												
1			x	Portfolio (I)	6.1, 6.2 (table 2)	30%	5.5	Wk 41	Wk 43		Wk 44	Wk 46	
2			х	Computer assignment (I)	6.1, 6.2 (table 2)	70%	5.5	Wk 41	Wk 43		Wk 44	Wk 46	
	x Computer assignment (I) 6.1, 6.2 (table 2) 70% 5.5 Wk 41 Wk 43 Wk 44 Wk 46												

CU79	028v1	1 '	Title	: GIS-advanced		Number of E	Cs: 2.0 M	andatory	1	Feaching la	inguage:
			Con	tact hours: 18					1	English	
Condi	itions	ofpa	artic	ipation: not applicable							
Specia	cial condition for awarding study points (tick-box test): for this course (open source) Qgis i										
Brief	ief description of the course content: In this course you will learn the basics of cartography, h					her reliable d	ata for map	ping analys	is, the basics	s of the ope	en source
GIS so	ftwa	re Qg	is, b	y realizing an GIS analysis of	f your project area. Course will be assessed by a portfolio of	of assignment	s of each we	eek and a co	omputer ass	ignment.	
Test	For	m			Subtask	Weighting	Minimum	Planned	Inspection	Resit	Inspection
no.						factor	score	test	of work	planned	of resits
								in week		in week	in week
V W O Form											
1	1 x Portfolio (I) 1.1, 8.1 (table 2)			1.1, 8.1 (table 2)	30%	5.5	Wk 41	Wk 43	Wk 44	Wk 46	
2	x Computer assignment (I) 1.1, 8.1 (table 2)			1.1, 8.1 (table 2)	70%	5.5	Wk 41	Wk 43	Wk 44	Wk 46	





CU79029v1	Title: Project vision for Climate Change Contact hours: 36	Number of ECs: 4.0	Mandatory	Teaching language: English				
Conditions of participation: not applicable								
Consist and iting for surveying study prints (tink have test), proticination in stress test (CC), proticination in EU project weak								

Special condition for awarding study points (tick-box test): participation in stress test (SG); participation in EU project week

Brief description of the course content: In this project you will develop a vision for an European flood prone region. This vision will be based on area analysis, desk research and scenarios. The vision will be displayed in a rapport, a group product, and underpinned by the products of the courses 'Research methodology I', 'Statistics for Climate Change' and 'GIS-advanced' and knowledge of the course 'Vision development theory '. The summary of the vision will be presented in a poster as individual product, assessed by oral examination.

Mandatory is the participation in climate stress test (a serious game) in the first week of the course and the participation in EU project week. The EU project week is a field trip/excursion to the project areas of module 5 and 6.

Test	Form		Subtask		Subtask	Weighting factor	Minimum	Planned test	Inspection of work	Resit planned	Inspection of
					luctor	score	in week	of work	in week	in week	
	V W O Form		Form								
1	x     x     Poster (I)     1.1, 1.2, 2.2, 3.2, 6.1, 7.1, 8.1, 8.2, 8.3, 8.4, 9.1, 9.2, 9.3, 9.4, 9.5     9.6 (table 2)		1.1, 1.2, 2.2, 3.2, 6.1, 7.1, 8.1, 8.2, 8.3, 8.4, 9.1, 9.2, 9.3, 9.4, 9.5, 9.6 (table 2)	50%	5.5	Wk 41	Wk 43	Wk 44	Wk 46		
2	x Report (G)		Report (G)	1.1, 1.2, 2.2, 3.2, 6.1, 7.1, 8.1, 8.2, 8.3, 8.4, 9.1, 9.2, 9.3, 9.4, 9.5, 9.6 (table 2)	50%	5.5	Wk 41	Wk 43	Wk 44	Wk 46	





#### Module 6 (DM): Adaptive Planning for Climate Change

CU79	030v1	1	Title: Conta	Adaptive plan act hours: 26	ning for climate change theory		Number of ECs:	3.0 Mandato	ory	Teachin English	g language:
Condi	itions	sofpa	articip	oation: not ap	plicable			1		-	
Specia	pecial condition for awarding study points (tick-box test): not applicable										
Brief the D Clima	<b>descr</b> utch I te Ch	r <b>iptio</b> Delta Iange	<b>n of t</b> progr Tend	<b>he course con</b> ramme, taking er.	tent: This course covers theories for planning and management into consideration the different socio-economic and cultural	ent for ada I dimensio	ptation and miti ns and the Europ	gation. This will bean context. Th	be explained his course pre	l via the ap pares for	oplication in the adaptive
Test	For	m			Subtask	Weighti	ng Minimum	Planned test	Inspection	Resit	Inspection of
no.						factor	score	in week	of work	planned	resits
										in week	in week
V W O Form											
1		x		Exam (I)	1.1, 1.2, 2.1, 2.2, 3.1, 3.2, 3.3, 4.1, 6.1, 7.1, 8.1, 8.2, 8.3,	100%	5.5	Wk 2	Wk 3	Wk 4	Wk 6
	8.4, 9.1, 9.2, 9.3, 9.4, 9.5, 9.6 (table 2)										

CU79	031v1	1 1	Title	Research methodology	/		Number of E	Cs: 2.5 Mand	datory	Teachir	ng language:
		(	Con	tact hours: 18						English	
Condi	itions	ofpa	artic	ipation: not applicable		·					
Specia	al cor	nditio	n fo	r awarding study points	s (tick-box test): not applicable						
Brief	descr	iptior	n of	the course content: This	s course covers the steps of the research cycle fr	om the resea	rch proposal t	ill writing your	report. Resear	ch cyclus 1]	Conceptual
mode	nodel -> Theoretic Framework-> Background info 2] References (Referring in MS Word) 3] basics ( evaluating problem statement - R. questions). You will conduct a report of										
your r	resea	rch by	/ ass	signments (practical's) w	hich you have to hand in a portfolio. The report	will be assess	ed by an asse	ssment form.			
Test	For	m			Subtask	Weighting	Minimum	<b>Planned test</b>	Inspection	Resit	Inspection of
no.						factor	score	in week	of work	planned	resits
										in week	in week
V W O Form											
1 x Portfolio (I) 6.1, 6.2, 6.3, 7.1, 7.2, 7.3, 8.2 (table 2) 30				30%	1	Wk 51	Wk 3	Wk 4	Wk 6		
2	1     X     Polition (I)     0.1, 0.2, 0.3, 7.1, 7.2, 7.3, 0.2 (table 2)       2     X     Research proposal (I)     6.1, 6.2, 6.3, 7.1, 7.2, 7.3, 8.2 (table 2)				70%	2	Wk 51	Wk 3	Wk 4	Wk 6	





CU79032v1 Title: Forecasting Statistics Contact hours: 9								of ECs: 1.0	Mandatory	Te	aching language:
	(	Con	tact hours: 9							En	glish
ions	of pa	rtic	ipation: not applicable								
l con	nditio	n fo	r awarding study points (tio	ck-box test): for this co	urse MS Excel i	s required					
escr	iptior	n of	the course content: In this	course you will learn ho	w conduct a st	atistical signific	ant trendline g	raph in MS I	Excel out of yo	our reliable dat	a and to conduct a
istical significant forecasting (Two variable statistics based) out of these data, to apply in your adaptive area planning. Course will be assessed by a portfolio of assignments											
h we	ek an	d a	computer assignment								
Forr	m			Subtask	Weighting	Minimum	Planned test	Inspection	of work	Resit planne	d Inspection of
					factor	score	in week			in week	resits
											in week
V	W	0	Form								
1     x     Portfolio (I)     6.1, 6.2 (table 2)     30%     5.5						5.5	Wk 51	Wk 3		Wk 4	Wk 6
2     x     Computer assignment (I)     6.1, 6.2 (table 2)     70%     5.5							Wk 51	Wk 3		Wk 4	Wk 6
	32v: ions l con escr cal s n we For	32v1 ( ions of pa l conditio escription cal signific week an Form	32v1 Title Continues of partice condition for escription of cal significant week and a Form V W O x x x	32v1 Title: Forecasting Statistics Contact hours: 9   ions of participation: not applicable   I condition for awarding study points (tie escription of the course content: In this cal significant forecasting (Two variables o week and a computer assignment   Form   V W   O Form   x Portfolio (I)   x Computer assignment (I)	32v1   Title: Forecasting Statistics Contact hours: 9     ions of participation: not applicable     I condition for awarding study points (tick-box test): for this co escription of the course content: In this course you will learn ho cal significant forecasting (Two variable statistics based) out of to week and a computer assignment     Form   Subtask     V   W   O     k   Portfolio (I)   6.1, 6.2 (table 2)     k   Computer assignment (I)   6.1, 6.2 (table 2)	32v1   Title: Forecasting Statistics Contact hours: 9     ions of participation: not applicable     I condition for awarding study points (tick-box test): for this course MS Excel i escription of the course content: In this course you will learn how conduct a st cal significant forecasting (Two variable statistics based) out of these data, to a n week and a computer assignment     Form   Subtask   Weighting factor     V   W   O   Form     x   Portfolio (I)   6.1, 6.2 (table 2)   30%     x   Computer assignment (I)   6.1, 6.2 (table 2)   70%	32v1   Title: Forecasting Statistics Contact hours: 9     ions of participation: not applicable     I condition for awarding study points (tick-box test): for this course MS Excel is required     escription of the course content: In this course you will learn how conduct a statistical signific cal significant forecasting ( <i>Two variable statistics based</i> ) out of these data, to apply in your add to week and a computer assignment     Form   Subtask   Weighting factor   Minimum score     V   W   O   Form   4     x   Portfolio (I)   6.1, 6.2 (table 2)   30%   5.5     x   Computer assignment (I)   6.1, 6.2 (table 2)   70%   5.5	32v1   Title: Forecasting Statistics Contact hours: 9   Number     ions of participation: not applicable   Iondition for awarding study points (tick-box test): for this course MS Excel is required   Iondition for awarding study points (tick-box test): for this course MS Excel is required     escription of the course content: In this course you will learn how conduct a statistical significant trendline g cal significant forecasting ( <i>Two variable statistics based</i> ) out of these data, to apply in your adaptive area pla to week and a computer assignment     Form   Subtask   Weighting factor   Minimum score   Planned test in week     V   W   O   Form   Iondition   Iondition   Iondition     v   x   Portfolio (I)   6.1, 6.2 (table 2)   30%   5.5   Wk 51     x   Computer assignment (I)   6.1, 6.2 (table 2)   70%   5.5   Wk 51	Number of ECs: 1.0     Number of ECs: 1.0     Number of ECs: 1.0     Ions of participation: not applicable     I condition for awarding study points (tick-box test): for this course MS Excel is required     escription of the course content: In this course you will learn how conduct a statistical significant trendline graph in MS I cal significant forecasting ( <i>Two variable statistics based</i> ) out of these data, to apply in your adaptive area planning. Course week and a computer assignment   Number of ECs: 1.0     Form   Subtask   Weighting factor   Minimum score   Planned test in week   Inspection     V   W   O   Form   A   Portfolio (I)   6.1, 6.2 (table 2)   30%   5.5   Wk 51   Wk 3     x   Computer assignment (I)   6.1, 6.2 (table 2)   70%   5.5   Wk 51   Wk 3	32v1   Title: Forecasting Statistics Contact hours: 9   Number of ECs: 1.0   Mandatory     ions of participation: not applicable   Iondition for awarding study points (tick-box test): for this course MS Excel is required   Iondition for awarding study points (tick-box test): for this course MS Excel is required   Iondition for awarding study points (tick-box test): for this course MS Excel is required     escription of the course content: In this course you will learn how conduct a statistical significant trendline graph in MS Excel out of you cal significant forecasting ( <i>Two variable statistics based</i> ) out of these data, to apply in your adaptive area planning. Course will be assessed week and a computer assignment   Minimum factor   Planned test in week   Inspection of work     V   W   O   Form   Inspection of .1, 6.2 (table 2)   30%   5.5   Wk 51   Wk 3     v   x   Portfolio (I)   6.1, 6.2 (table 2)   70%   5.5   Wk 51   Wk 3	32v1   Title: Forecasting Statistics Contact hours: 9   Number of ECs: 1.0   Mandatory   Te En     ions of participation: not applicable   Ional to not not applicable   Ional to not not applicable   Ional to not not not applicable   Ional to not not not not not not not not not

CU79	033v:	1	Title	: GIS for climate change				Number	of ECs: 2.0	Mandatory	Te	aching language:
			Con	tact hours: 18							En	glish
Condi	itions	ofpa	artic	ipation: not applicable								
Specia	al cor	nditio	n fo	or awarding study points (ti	ck-box test): for this cou	rse (open sour	rce) Qgis is requ	iired				
Brief description of the course content: In this GIS course you will learn the basics of how to use Geo databases, the advanced skills of the open source GIS software Qgis, by								software Qgis, by				
realizi	ing ar	n GIS	anal	lysis of your project area. Co	ourse will be assessed by	a portfolio of	assignments of	f each week an	d a compute	r assignment.		
Test	For	m			Subtask	Weighting	Minimum	Planned test	Inspection	of work	Resit planne	d Inspection of
no.						factor	score	in week			in week	resits
												in week
V W O Form												
1	x Portfolio (I) 1.1, 8.1 (table 2)				1.1, 8.1 (table 2)	30%	5.5	Wk 51	Wk 3		Wk 4	Wk 6
2	x     Portfolio (I)     1.1, 8.1 (table 2)     30%       x     Computer assignment (I)     1.1, 8.1 (table 2)     70%						5.5	Wk 51	Wk 3		Wk 4	Wk 6





CU/9	034v	1	Title	e: The adaptive Climate (	daptive Climate Change Tender u <b>rs:</b> 36			Mandato	ry	Teachin	g language:				
			Con	tact hours: 36			of ECs: 4.0			English					
Cond	itions	s of p	artio	cipation: not applicable											
Speci	al coi	nditio	n fo	or awarding study points	s (tick-box test): not applicable										
Brief	desci	riptio	n of	the course content: In t	this project you will enrol as team (your group) for a 'clir	nate adaptive	area planning	' tender. Th	nis tender wil	l be based	on area				
analy	sis, d	esk re	sea	rch and theories for plar	nning and management for adaptation and mitigation. T	he vision will b	e displayed in	n a tender-r	eport, a grou	ip product	, which is				
unde	roinned by the products of the courses 'Research methodology II'. 'Forecasting Statistics' and 'GIS for climate change' and knowledge of the course 'Adaptive planning for														
clima	primed by the products of the courses research methodology if, processing statistics and Gistor climate change and knowledge of the course Adaptive planning for the change theory. The summary of the vision will be presented as a group product accessed in by the other groups and the lecturers according to the EMVI (OPP).														
china	le chi		une.	idual anal avamination	e vision will be presented as a group product, assessed in	i by the other	groups and th	le lecturers	according to		(QFN)				
stand	arus	and I		idual oral examination.		tandards and individual oral examination.									
Test	- Fee				Cubanda	Mainhting	N dise income	Diamag	Inconstinu	Desit	Incorpetion				
Test	For	m			Subtask	Weighting	Minimum	Planned	Inspection	Resit	Inspection				
Test no.	For	m			Subtask	Weighting factor	Minimum score	Planned test	Inspection of work	Resit planned	Inspection of resits				
Test no.	For	m			Subtask	Weighting factor	Minimum score	Planned test in week	Inspection of work	Resit planned in week	Inspection of resits in week				
Test no.	For	m W	0	Form	Subtask	Weighting factor	Minimum score	Planned test in week	Inspection of work	Resit planned in week	Inspection of resits in week				
Test no.	For V	w x	0 x	Form Group project report	Subtask 1.1, 1.2, 2.1, 2.2, 3.1, 3.2, 3.3, 4.1, 6.1, 7.1, 8.1, 8.2,	Weighting factor 40%	Minimum score 5.5	Planned test in week Wk 51	Inspection of work Wk 3	Resit planned in week Wk 4	Inspection of resits in week Wk 6				
Test no.	For V	w x	0 X	Form Group project report (G)	Subtask 1.1, 1.2, 2.1, 2.2, 3.1, 3.2, 3.3, 4.1, 6.1, 7.1, 8.1, 8.2, 8.3, 8.4, 9.1, 9.2, 9.3, 9.4, 9.5, 9.6 (table 2)	Weighting factor 40%	Minimum score 5.5	Planned test in week Wk 51	Inspection of work Wk 3	Resit planned in week Wk 4	Inspection of resits in week Wk 6				





#### Module 7 (DM) : Risk and Disaster Management

CU79	035v1	1	Title Con	: Integrated risk assess	sment for delta areas – Spatia	l planning for	deltaic risks	Number	of ECs: 3.0	Mandatory	Tea	ching language: lish
Cond	tions	sofpa	artic	ipation: not applicable	?			I		Į	5	
Speci	al cor	nditio	n fo	r awarding study poin	ts (tick-box test): not applical	ble						
Brief partic about	<mark>descr</mark> ular. : plan	r <b>iptio</b> r You v Ining f	<b>n of</b> vill l for r	the course content: W earn which environme isks and disaster mana	/ithin this module you will foc ntal, ecological, spatial and ris gement.	us on environ sks are presen	mental and spa t and how they	atial risks presei / relate to each	nt in delta a other and s	reas in general ocial-economic	and the Mississ crisks. You will l	sippi delta, USA in earn theories
Test	For	m			Subtask	Weighting	Minimum	Planned test	Inspection	n of work	Resit planned	Inspection of
no.						factor	score	in week			in week	resits
											in week	
	V W O Form											
1 x Written Exam (I) 1.1, 1.2 (table 2) 100% 5.5			5.5	Wk 13	Wk 14		Wk 15	Wk 17				

CU79	036v	1	Title Con	: Integrated risk asses: tact hours: 22	sment for delta areas – Delta I	Economics 2		Number	of ECs: 3.0	Mandatory	Tea Eng	ching language: Iish
Cond	itions	s of pa	artic	ipation: not applicable	?							
Specia	al coi	nditio	n fo	r awarding study poin	ts (tick-box test): not applical	ble						
Brief USA. analy:	rief description of the course content: : Within this module you will learn about risk analysis of delta areas. We will focus on the case of the Mississippi delta in Louisiana, JSA. You will learn which social and economic risks are present within deltas. You will learn theories about hazards and disaster management, design, actor- and stakeholder analysis, spatial and disaster economics.											
Test	For	m			Subtask	Weighting	Minimum	Planned test	Inspection	n of work	Resit planned	Inspection of
no.						factor	score	in week			in week	resits
	in week											
V W O Form												
1	1     x     Written Exam (I)     1.1, 1.2 (table 2)     100%     5.5				5.5	Wk 13	Wk 14		Wk 15	Wk 17		





CU79	037v:	1 '	Title	: Integrated risk assessment for delta	areas – Project & process	Number	of ECs: 3.0	Mandato	ry	Teachin	ig language:
			Con	act hours: 22						English	
Cond	itions	ofpa	artic	ipation: not applicable							
Special condition for awarding study points (tick-box test): not applicable											
Brief description of the course content: Within this module you will learn about risk analysis of delta areas. We will focus on the case of the Mississippi delta i						i delta in L	ouisiana, USA.				
You v	vill lea	arn w	hich	social and institutional risks are prese	nt within deltas. You will learn theories about	process ma	nagement a	nd design,	actor- and st	akeholder	analysis,
gover	nanc	e.									
Test	For	m			Subtask	Weighting	Minimum	Planned	Inspection	Resit	Inspection of
no.						factor	score	test	of work	planned	resits
								in week		in week	in week
	V	W	0	Form							
1		х		Written Exam: Project & process (I)	1.1, 3.1 (table 2)	100%	5.5	Wk 13	Wk 14	Wk 15	Wk 17

CU790	038v1	1 1	<b>Fitle</b>	: Integrated risk assessme	ent for the Mississippi Delta (project)	Numbe	er of ECs: 3.5	Mandato	ry	Teaching	language:
			Cont	tact hours: 30						English	
Condi	tions	ofpa	rtic	ipation: not applicable							
Specia	al cor	nditio	n fo	r awarding study points (	tick-box test): not applicable						
Brief	descr	iptio	n of	the course content: : In the	nis project you will execute a risk assessment of a certa	in area in the	Mississippi d	elta. You wi	ill apply theori	ies of risk a	nd disaster
mana	gement, ecosystem services, spatial analysis, process management and design, actor- an					eholder analy	sis, governan	ce, spatial e	conomics and	l disaster e	conomics.
You w	vill apply this knowledge in a group project. In this project you also have to apply the stat					GIS and visua	lisation skills	you have ob	otained in prev	/ious modu	les and will
furthe	er dev	/elop	in tl	his module . You will also r	eflect on your performance and development within a	group and w	ill be assesse	d on this.			
Test	For	m			Subtask	Weighting	Minimum	Planned	Inspection	Resit	Inspection
no.						factor	score	test	of work	planned	of
								in week		in week	resits
											in week
	V W O Form										
1 x Report (G) 1.1, 1.2, 3.2, 7.1, 7.2, 8.2 (table 2)				75%	5.5	Wk 12	Wk 13	Wk 15	Wk 17		
2	x	x	х	Performance	7.1, 7.2, 8.3, 8.4, 9.1, 9.2, 9.3, 9.4, 9.5, 9.6 (table 2)	25%	5.5	Wk 5 - 13	Wk 14	Wk 15	Wk 17
	Assessment (I)										





#### Module 8 (DM): Strategic Planning for Resilient Deltas

CU79	039v:	1 1	Title:	Strategic planning for resilient deltas - Spatial plan	ning for resilience	Number	of ECs: 1.5	Mandatory		Teaching	language:
			Conta	ct hours: 22				English			
Cond	Conditions of participation: not applicable										
Speci	al cor	nditio	n for	awarding study points (tick-box test): not applical	ble						
Brief	descr	riptior	n of th	ne course content: Within this course you will lear	n about strategic planning for res	silient delta	s. We will fo	cus on the cas	e of the Miss	issippi delt	ta in
Lousia	ana, l	JSA. Y	'ou w	ill learn theories on broad concepts of spatial resili	ence, spatial planning in the US	context and	strategy dev	elopment for	resilient del	tas.	
Test	For	m			Subtask	Weighting	Minimum	Planned	Inspection	Resit	Inspection
no.						factor	score	test	of work	planned	of resits
								in week		in week	in week
	V	W	0	Form							
1		х		Portfolio Spatial and Environmental Planning (I)	1.1, 1.2, 2.1, 2.2 (table 2)	100%	5.5	Wk 16 - 24	Wk 25	Wk 26	Wk 28

CU79	040v:	1 '	Title:	Strategic planning	g for resilient deltas – Economic R	lesilience		Number	of ECs: 1.5	Mandatory	Tea	ching language:
			Conta	act hours: 22							Eng	lish
Condi	Conditions of participation: not applicable											
Specia	Special condition for awarding study points (tick-box test): not applicable											
Brief Lousia analy:	Brief description of the course content: Within this course you will learn about strategic planning for resilient deltas. We will focus on the case of the Mississippi delta in Lousiana, USA. You will learn theories on concepts of resilience, strategy development, economic thinking and system thinking, cost estimation and social cost and benefit analysis.											
Test	For	m			Subtask	Weighting	Minimum	Planned test	Inspection	of work	Resit planned	Inspection of
no.	no. factor score						score	in week			in week	resits
												in week
	V	V W O Form										
2	x     Portfolio (I)     1.1, 1.2, 2.1, 3.1, 3.2 (table 2)     100%     5.5					5.5	Wk 16 - 24	Wk 25		Wk 26	Wk 28	





CU79	041v	1 '	Title:	Strategic plannin	g for resilient deltas – Delta Mana	agement		Number	of ECs: 1.5	Mandatory	Tea	aching language:
			Conta	act hours: 22							Eng	glish
Cond	Conditions of participation: not applicable											
Speci	Special condition for awarding study points (tick-box test): not applicable											
Brief	desci	riptio	n of t	he course conten	t: Within this course you will lear	n about strate	gic planning for	r resilient delta	s. We will fo	cus on the cas	e of the Missis	sippi delta in
Lousi	ana, I	USA. \	/ou w	ill learn theories (	on concepts of strategy developm	nent and proje	ect planning incl	uding stakehol	der plan, m	aintenance pla	n and impleme	ntation plan.
Test	For	m			Subtask	Weighting	Minimum	Planned test	Inspection	of work	Resit planned	I Inspection of
no.						factor	score	in week			in week	resits
												in week
	V W O Form											
3	x Portfolio (I) 3.1, 3.2, 3.3, 4.1, 5.1 (table 2) 100% 5.5				Wk 16 - 24	Wk 25		Wk 26	Wk 28			

CU79	042v1	1 1	<b>Title</b>	Strategic planning for resilien	t deltas - Project	Numbe	r of ECs: 8.0	Mandat	tory	Teachin	ig language:	
			Cont	tact hours: 66						English		
Condi	Conditions of participation: not applicable											
Specia	Special condition for awarding study points (tick-box test): not applicable											
Brief	descr	riptior	n of	the course content: Within this	s module you will learn about strategic planning fo	resilient de	ltas. We will	focus on a	case within th	ne Mississi	ppi delta in	
Lousia	ana, l	JSA. Y	ou	will learn theories on resilience,	, spatial planning in the US context, strategy develo	pment, eco	nomic thinki	ng and syst	tem thinking, o	cost estima	ation and	
social	cost	and b	ene	fit analysis. You will apply this l	knowledge within an individual project where you	vork on a pr	oposal for a	competitic	on to make a N	ew Orlean	is more	
resilie	ent. Ye	ou wil	lap	ply your visualisation, GIS and s	statistics skills in the project. You will develop your	presentatio	n skills to giv	e a pitch fo	or the proposa	Ι.		
Test	For	m			Subtask	Neighting	Minimum	Planned	Inspection	Resit	Inspection of	
no.						actor	score	test	of work	planned	resits	
								in week		in week	in week	
	V	W	0	Form								
1		x Report Strategy Proposal (I) 2.2, 3.1, 3.		Report Strategy Proposal (I)	2.2, 3.1, 3.2, 8.2, 8.4 (table 2)	75%	5.5	Wk 23	Wk 24	Wk 25	Wk 27	
2	x			Pitch Strategy Proposal (I)	2.2, 8.1, 8.4 (table 2)	25%	5.5	Wk 23	Wk 24	Wk 25	Wk 27	





#### SEMESTER 7 (DM)

CU790	47v1	Title Con	e: Me tact l	kong area and system analysis h <b>ours</b> : 22		Number of E	Cs: 2.5	Mandato	ry	Teaching la English	anguage:
Condit	Conditions of participation:										
Propedeutic exam passed											
•	At lea	rst 12	0 EC (	obtained (including provisionary credits)							
•	Interi	nship	OR M	linor passed							
Specia	l condit	ion fo	or aw	arding study points (tick-box test): not applicab	ole						
Brief d	lescripti	on of	the o	course content: In this course an integrated area	and system analysis of an ar	ea in the Mek	ong Delta wi	ll be condu	icted. This ana	alysis will be	used to
develo	p releva	ant sc	enari	os.							
Test	Form				Subtask	Weighting	Minimum	Planned	Inspection	Resit	Inspection
no.						factor	score	test in	of work	planned	of resits
								week		in week	in week
	V	V W O Form									
1		Х		Report Mekong area and system analysis (G)	1.1, 1.2, 1.3, 2.1, 7.3, 8.3,	100%	5.5	Wk 39	Wk 41	Wk 42	Wk 44
					8.4, 9.3, 9.5, 9.6 (table 2)						

CU79048	Bv1 T	itle: Spa	tial plan	ning for circu	ılarity		Number of E	Cs: 2.5 N	/landatory	Teaching	language: English		
	0	Contact h	ours: 22	?									
Conditio	Conditions of participation:												
•	Propedeutic exam passed												
•	At least 120 EC obtained (including provisionary credits)												
•	Internship OR Minor passed												
Special o	onditio	n for awa	arding st	udy points (	tick-box test): not applicable								
Brief des	scription	of the c	ourse co	ontent: The o	course Spatial planning for circulari	ty consists of	three mayor	components ar	nd has its focus on t	he Mekong delt	a:		
•	Plannin	g with ec	osystem	n services (m	angroves, sedimentation, wetlands	s, etc.;							
•	Plannin	g for resi	lience: c	ommunity re	esilience vs individual resilience, m	ethods the Vie	etnamese soo	iety has develo	oped for planning a	nd managing the	e Mekong delta		
	conditio	ons and h	now to a	dapt the delt	ta to the challenges of climate char	nge;							
•	Plannin	g for circ	ularity: f	low charts, l	andscape as force for organising ci	rcular process	es.						
Test	Form				Subtask	Weighting	Minimum	Planned	Inspection	Resit planned	Inspection of		
no.						factor	score	test in	of work	in week	resits		
								week			in week		
	v	w	0	Form									
1		x		Exam (I)	1.1, 1.2, 1.3, 2.1, 3.3 (table 2)	100%	5.5	Wk 42	Wk 43	Wk 44	Wk 46		





CU790	49v1 T	<b>itle:</b> De	lta Econo	omics 3			Number of E	Cs: 2.5	Ma	indatory	Teaching language: English		
	0	Contact	hours: 22	2									
Condit	ions of pa	rticipati	ion:										
•	Propede	eutic exa	am passe	d									
•	At least	120 EC	obtainea	l (including p	rovisionary credits)								
•	Internsh	nip OR N	Ainor pas	sed									
Specia	Special condition for awarding study points (tick-box test): not applicable												
Brief d	escription	of the	course co	ontent: In th	e course Delta Economics 3, you lea	arn to analyse	e the econom	ic system	of the N	Mekong delta, Vi	etnam. We will l	ook at value	
chains,	economic	: system	ns and fo	rces, econon	nic policies and global trends in eco	nomic develo	pment and t	hinking. Co	oncepts	s of circular econ	omy will be discu	ussed. Latest	
debate	on how to	o shift t	owards s	ustainable s	olutions for climate resilience and g	reen/blue an	d circular dev	elopment	t. Atten	tion will be given	as well to empo	owering the	
studen	t on impro	oving co	mmunica	ation throug	h basic notions of infographic and d	ata represen	tation, as wel	l as slogar	n and b	randing concepts	s.	1	
Test Form Subtask Weighti						Weighting	Minimum	Planned		Inspection	Resit planned	Inspection of resit	
no.						factor	score	test in		of work	in week	in week	
				1				week					
	V	W	0	form									
1				Even (I)	121222161(table 2)	100%	66	W/L 42		W/L 42		WIL AC	
1 x Exam (I) 1.2, 1.3, 2.2, 3.1, 6.1 (table 2) 100% 5.5 Wk 42 Wk 43 Wk 44 Wk 46													
CU790	50v1 T	itle: Del	ta Mana	gement			Number of E	Cs: 2.5	Manda	atory	Teaching langu	age: English	
CU790	50v1 Ti	i <b>tle:</b> Del ontact l	ta Mana hours: 22	gement			Number of E	Cs: 2.5	Manda	atory	Teaching langu	age: English	
CU790	50v1 Ti Cons of par	i <b>tle:</b> Del ontact l rticipati	ta Mana hours: 22 ion:	gement			Number of E	Cs: 2.5	Manda	atory	Teaching langu	age: English	
CU790. Conditi	50v1 T c ions of par Propede At least	itle: Del ontact l rticipati eutic exe 120 EC	ta Mana hours: 22 ion: am passe	gement 2 d	rovisionany credits)		Number of E	Cs: 2.5	Manda	atory	Teaching langu	age: English	
CU790. Conditi	50v1 T cons of par Propede At least	itle: Del ontact l rticipati eutic exc 120 EC	ta Manaj hours: 22 ion: am passe obtainea Ainor pas	gement ? d I (including p	rovisionary credits)		Number of E	Cs: 2.5	Manda	atory	Teaching langu	age: English	
CU790. Conditu Special	50v1 Ti cons of par Propede At least Internsh	itle: Del ontact I rticipati eutic exc 120 EC hip OR N	ta Mana hours: 22 ion: am passe obtainea Ainor pas	gement d l (including p sed tudy points i	rovisionary credits)		Number of E	Cs: 2.5	Manda	atory	Teaching langu	age: English	
CU790 Conditi Special Brief d	50v1 T cons of pa Propede At least Internsh condition	itle: Del ontact l rticipati eutic exa 120 EC hip OR N of for aw	ta Mana hours: 22 ion: am passe obtained Ainor pas rarding s	gement ? I (including p sed tudy points ( optent: As a	rovisionary credits) ( <b>tick-box test)</b> : not applicable Delta Manager you are able to crea	te vour envir	Number of E	Cs: 2.5	Manda	atory	Teaching langu	age: English	
CU790. Conditi Special Brief de world	50v1 T ions of pa Propede At least Internsh condition escription	itle: Del ontact I rticipati eutic exc 120 EC hip OR N o for aw of the o	ta Mana, hours: 22 ion: am passe obtained Ainor pas varding se course co	gement ? ! (including p sed tudy points   notent: As a	<i>rovisionary credits)</i> ( <b>tick-box test)</b> : not applicable Delta Manager you are able to crea	te your enviro	Number of E	Cs: 2.5	Manda	t kinds of project	Teaching langu	age: English	
CU790 Conditi • • • • • • • • • • • • • • • • • •	50v1 T ions of pa Propede At least Internsh condition escription principally e effects o	itle: Del ontact I rticipati eutic exc 120 EC 120 EC nip OR M of or aw of the o y manag of globa	ita Mana; hours: 22 ion: am passe obtainea dinor pas rarding s course co ging the c l climate	gement ? ! (including p sed tudy points ( ontent: As a l levelopment change? Ho	<i>rovisionary credits)</i> ( <b>tick-box test</b> ): not applicable Delta Manager you are able to crea of delta areas. All these projects ty w to realize future-proof strategies	te your enviro pically deal w	Number of E	Cs: 2.5 work on d cope of co	Manda lifferent ontemp a safe y	t kinds of project orary questions. way? How to sec	Teaching langu s in delta region Like, how to pre ure the availabil	age: English	
CU790. Conditi • • Special Brief d world, with th	50v1 T ions of par Propede At least Internsh condition escription principally e effects of the increa	itle: Del ontact I rticipati eutic exc 120 EC ip OR M of for aw of the o / manago of globa sing sal	ita Mana, hours: 22 ion: am passe obtained finor pas arding s course co ting the c l climate inization	gement d l (including p sed tudy points ( ontent: As a l levelopment change? Ho of delta regi	rovisionary credits) (tick-box test): not applicable Delta Manager you are able to crea of delta areas. All these projects ty w to realize future-proof strategies ons? Or, how to create a balance b	te your enviro pically deal v for living and etween the si	Number of E	Cs: 2.5 work on d cope of co water in or differe	Manda lifferent ontemp a safe v nt funct	t kinds of project orary questions. way? How to sec tions within a del	Teaching langu s in delta region Like, how to pre ure the availabil ta region? As a l	age: English s all over the pare areas to cope ity of fresh water Delta Manager you	
CU790. Condit. • • Special Brief d world, with th within give an	50v1 T ions of par Propede At least Internsh condition principally e effects of the increa swers to t	itle: Del ontact l rticipati eutic exe 120 EC hip OR M of the o manago of the o manago of globa sing sal hese qu	ta Manaj hours: 22 ion: am passe obtained Ainor pas rarding s course co ging the c l climate inization uestions,	gement d l (including p sed tudy points (ntent: As a levelopment change? Ho of delta regi by organizin	rovisionary credits) (tick-box test): not applicable Delta Manager you are able to crea of delta areas. All these projects ty w to realize future-proof strategies ons? Or, how to create a balance b g all kinds of developments to crea	te your enviro pically deal v for living and etween the s te the sustain	Number of E onment! You vith a broad s I working with patial needs f able delta are	work on d cope of co n water in for difference as of the	Manda lifferent ontemp a safe nt funct future.	t kinds of project orary questions. way? How to sec tions within a de	Teaching langu s in delta region Like, how to pre ure the availabil ta region? As a I	age: English s all over the pare areas to cope ity of fresh water Delta Manager you	
CU790. Condit. • • Special Brief d world, with th within give an Test	50v1 Ti cons of par Propede At least Internsh condition escription principally e effects of the increa swers to t	itle: Del ontact I rticipati eutic exe 120 EC hip OR M of the o / manago of globa sing sal hese qu	ta Manaj hours: 22 ion: am passe obtained Ainor pas rarding s course co ging the c l climate inization uestions,	gement d l (including p sed tudy points (ntent: As a l levelopment change? Ho of delta regi by organizin	rovisionary credits) (tick-box test): not applicable Delta Manager you are able to crea of delta areas. All these projects ty w to realize future-proof strategies ons? Or, how to create a balance b g all kinds of developments to crea Subtask	te your enviro pically deal v for living and etween the s te the sustain Weighting	Number of E onment! You vith a broad s I working with patial needs f able delta aro Minimum	work on d cope of co n water in or difference as of the Planned	Manda lifferent ontemp a safe v nt funct future.	t kinds of project orary questions. way? How to sec tions within a del	Teaching langu s in delta region Like, how to pre ure the availabil ta region? As a I Resit planned	age: English s all over the pare areas to cope ity of fresh water Delta Manager you Inspection of resits	
CU790. Condit. • • Special Brief du world, with th within give an Test no.	50v1 Ti cons of pade Propede At least Internsh condition principally e effects of the increa swers to t Form	itle: Del ontact I rticipati eutic exc 120 EC hip OR M of or aw of the o manago f globa sing sal hese qu	ta Mana, hours: 22 ion: am passe obtained Ainor pas rarding s course co ging the c I climate inization justions,	gement d l (including p sed tudy points ( ontent: As a l levelopment change? Ho of delta regi by organizin	rovisionary credits) (tick-box test): not applicable Delta Manager you are able to crea of delta areas. All these projects ty w to realize future-proof strategies ons? Or, how to create a balance b g all kinds of developments to crea Subtask	te your enviro pically deal w for living and etween the s te the sustain Weighting factor	Number of E onment! You vith a broad s I working with patial needs f able delta aro Minimum score	work on d cope of co n water in for differences of the Planned test in	Manda lifferent ontemp a safe v nt funct future.	t kinds of project orary questions. way? How to sec tions within a del Inspection of work	Teaching langu s in delta region Like, how to pre ure the availabil ta region? As a I Resit planned in week	age: English s all over the pare areas to cope ity of fresh water Delta Manager you Inspection of resits in week	
CU790. Condit. • • Special Brief du world, with th within give an Test no.	50v1 Ti ions of part Propede At least Internshi condition escription principally e effects of the increa swers to to Form	itle: Del ontact I rticipati eutic exc 120 EC ip OR M of or aw of the o / manag of globa sing sal hese qu	ta Mana, hours: 22 ion: am passe obtained dinor pas rarding s course co ging the c l climate inization jestions,	gement ? / (including p sed tudy points   tudy points   funtent: As a   levelopment change? Ho of delta regi by organizin	rovisionary credits) (tick-box test): not applicable Delta Manager you are able to crea of delta areas. All these projects ty w to realize future-proof strategies ons? Or, how to create a balance b g all kinds of developments to creat Subtask	te your enviro pically deal v for living and etween the s te the sustain Weighting factor	Number of E onment! You vith a broad s I working with patial needs f able delta are Minimum score	work on d cope of co n water in for difference as of the Planned test in week	Manda lifferent ontemp a safe nt funct future.	t kinds of project orary questions. way? How to sec tions within a del Inspection of work	Teaching langu s in delta region Like, how to pre ure the availabil ta region? As a I Resit planned in week	age: English s all over the pare areas to cope ity of fresh water Delta Manager you Inspection of resits in week	
CU790. Condit. • • Special Brief d world, with th within give an Test no.	50v1 Ti cons of part Propede At least Internshi condition principally e effects of the increa swers to to Form V	itle: Del contact I rticipati eutic exc 120 EC bip OR N of for aw of the o y manag of globa sing sal hese qu	ta Mana, hours: 22 ion: am passe obtained finor pas rarding s course co sing the c l climate inization uestions,	gement ? d (including p sed tudy points ( ontent: As a l levelopment change? Ho of delta regi by organizin	(tick-box test): not applicable (tick-box test): not applicable Delta Manager you are able to crea of delta areas. All these projects ty w to realize future-proof strategies ons? Or, how to create a balance b g all kinds of developments to crea Subtask	te your enviro pically deal v for living and etween the s te the sustain Weighting factor	Number of E onment! You vith a broad s I working with patial needs f nable delta arr Minimum score	work on d cope of co n water in for difference eas of the Planned test in week	Manda lifferent ontemp a safe nt funct future.	t kinds of project orary questions. way? How to sec tions within a del Inspection of work	Teaching langu s in delta region Like, how to pre ure the availabil ta region? As a I Resit planned in week	age: English s all over the pare areas to cope ity of fresh water Delta Manager you Inspection of resits in week	





CU7905	51v1			Title: /	Mekong project	Number of ECs: 10	.0 Mai	ndatory	Te	aching lang	uage: English		
				Conta	ct hours: 95								
Conditi	ons of	partici	pation:										
•	Prope	edeutic	exam J	passed									
•	At least 120 EC obtained (including provisionary credits)												
•	Internship OR Minor passed												
Special	condit	ion for	award	ing study points (ti	ick-box test): not applicable								
Brief de	escripti	on of t	he cou	rse content:									
Based o	Based on the analysis of the Mekong Delta area in module 13 an integral spatial adaptive intervention will be developed that will contribute to climate resilience and circular												
econon	n <mark>y. Yo</mark> u	will lea	arn abo	out using the landso	ape as driving force for flow optimisation, eco	onomic developmen	t in delta ar	eas and you v	will learn how	<i>w</i> to manage	e the		
realizat	ion, ma	aintena	ince an	d monitoring and e	valuation of projects and programmes. You w	vill also learn to spec	ify feasibilit	y, practicabili	ity and susta	inability. Th	erefore you		
will loo	k at soo	cial cos	t and b	enefits and funding	g options.								
Test	Form				Subtask	Weighting	Minimum	Planned	Inspection	Resit	Inspection of		
no.						factor	score	test in	of work	planned	resits		
				1				week		in week	in week		
	V	W	0	Form									
											1		
1		x		Project (I)	2.1, 2.2, 3.1, 3.2, 3.3, 4,1, 5.1, 6.1, 7.1, 7.2,	8.4, 75%	5.5	Wk 51	Wk 2	Wk 4	Wk 6		
					9.6 (table 2)								
2	x	x		Presentation (I)	8.1. 8.2. 8.4. 9.2 (table 2)	25%	5.5	Wk 2	Wk 3	Wk 4	Wk 6		





CU790	)85	V1	Tit Co	le: Integrated coastal challe ntact hours: 100	enge		N	lumber of ECs: 1	0.0 Mandator	y Te lai	aching nguage: English
Condi	tio	ns o	of pa	rticipation to the exam:							
•	I	Pro	ped	eutic exam passed							
•		At l	east	120 EC obtained (including	provisionary credits)						
•		Inte	erns	hip OR Minor passed							
Specia	al co	ond	itio	n for awarding study points	(tick-box test): none						
Brief description of the course content: In this course, you will dev     from different study programs. The coastal challenge is based on th     design the project as well as learn and apply tools for communicati     Test   Form     no.						Weighting factor	Mork in a m CZM which v n, managem Minimum score	vill be applied in ent and innovati Planned test in week	a real-life case on. hspection f work (< 10 vorking days fter receiving rade)	Resit planned	Initiate and Inspection of resits in week
	V	w	0						•		
1	х		х	Professional development (individual)	8; 9 (table 3)	40%	5.5	Wk 3	/k 3	Wk 4	Wk 6
2		х	х	Final product(s) (group)	1; 2; 3; 7.1; 8 (table 3)	40%	5.5	Wk 1	Vk 2	Wk 3	Wk 4
3	Х		Х	Presentation (group)	1; 8; 9 (table 3)	20%	5.5	Wk 2	/k 3	Wk 4	Wk 6