

EXCHANGE PROGRAMME ALL-ROUND DESIGNER 2020-2021

	Description	n of the educational unit				
Course code:	EDDIP.18.V.01 Cr	edits: <b>3</b> Ec's	Target group:	Voltijd Regulier		
Description	Designing Interactive Products					
Competences	-					
Target group	The aim of this course is to provide stud interactive products.	ents with the tools, knowledge	e and skills for des	signing and prototyping		
Educational content	The following subjects will be discussed: User-product interaction / Interactio User experience Sensors and actuators Programming Arduino Prototyping Students will create an interactive protot	n Design cype taking the subjects above	e into account.			
Teaching methods	Lessons, workshops and coaching.					
Teaching aids	<ul> <li>Tutorials</li> <li>Workshop</li> <li>Arduino sets</li> <li>Arduino project book</li> </ul>	<ul> <li>Tutorials</li> <li>Workshop</li> <li>Arduino project book</li> </ul>				
Supervisory activity	Frontal class teaching and coaching.					
Sequentiality						
Level	Gevorderd (Advanced)					
Grading domain	1 t/m 10, 1 dec.					
Assesment	Sub assessment	Gradingdomain	Weight	Caesura		
	P1: Designing Interactive Products	1 t/m 10, 1 dec.	1	Higher or equal to 5.5		
Reading list						
Practical actions			_			
	Description	n of the educational unit				
Course code:	EDINW.20 Cr	edits: <b>2</b> Ec's	Target group:	Voltijd Regulier		
Description	International Workshop					
Competences	-					
Target group	Undertake a real life, one week, project project. The objective is to create a tang	with an international group of ible project result in a very sh	students who tak ort time in an inte	e part in the carrousel ernational context.		
Educational content	The project undertaken will be a project conceptual phase of a product developm	as assigned by an external clie ent project.	ent. Generally this	s project will be more in the		
Teaching methods	Project					
Teaching aids	Everything that is needed					
Supervisory activity	Coaching by IPO staff and briefing and e	valuation by the client.				
Sequentiality						
Level	Gevorderd (Advanced)					
Grading domain	Achieved / not achieved					
Assesment	Sub assessment	Gradingdomain	Weight	Caesura		
	P1 International Workshop	Achieved / not achieved	1	Higher or equal to 5.5		
Reading list		,	1	- ·		
Practical actions						

	Descript	tion of the educational ur	nit	
Course code:	EDOSMAD1.20	Credits: 2 Ec's	5 Target group:	Voltijd Regulier
Description	Open subject Allround Design 1			
Competences	-			
Target group	The students is free to choose an acti Allround Designer. The choice of the s	vity or subject that fits/is re student must be approved b	elevant to the general p by the minor coach.	ourpose of the minor
Educational content	Free project or subject. Students hav The students make a proposal which No past activties bare allowed. Hobby	e a free choice as long as th must be approved by the co projects are excluded.	ne topic is related to the bach.	e Minor Allround Designer.
Teaching methods	Project with coaching.			
Teaching aids	Everything that is needed.			
Supervisory activity	Coaching			
Sequentiality				
Level	Gevorderd (Advanced)			
Grading domain	Achieved / not achieved			
Assesment	Sub assessment	Gradingdomain	Weight	Caesura
	P1 Open subject MAD 1: projects	Achieved / not achieve	ed 1	Higher or equal to 5.5
Reading list				
Practical actions				
	Descript	tion of the educational ur	nit	
Course code:	EDOSMAD2.20	Credits: 9 Ec's	5 Target group:	Voltijd Regulier
Description	Open subject Allround Design 2			
Competences	-			
Target group	The students is free to choose an acti Allround Designer. The choice of the s	vity or subject that fits/is re student must be approved b	elevant to the general p by the minor coach.	ourpose of the minor
Educational content	Free project or subject. Students have The students make a proposal which No past activties bare allowed. Hobby	e a free choice as long as th must be approved by the co projects are excluded.	ne topic is related to the bach.	e Minor Allround Designer.
Teaching methods	Project with coaching.			
Teaching aids	Everything that is needed.			
Supervisory activity	Coaching			
Sequentiality				
Level	Gevorderd (Advanced)			
Grading domain	Achieved / not achieved		1	
Assesment	Sub assessment	Gradingdomain	Weight	Caesura
Assesment		3	_	
Assesment	P1 Open subject MAD 2: projects	Achieved / not achieve	ed 1	Higher or equal to 5.5
Reading list	P1 Open subject MAD 2: projects	Achieved / not achieve	ed 1	Higher or equal to 5.5

	Description	of the educational unit						
Course code:	EDPADENG.18.V.01 Cre	dits: <b>21</b> Ec's	Target group: <b>Vc</b>	oltijd Regulier				
Description	Project Allround Designer: Engineering							
Competences	BoE3 Realiseren BoE2 Ontwerpen BoE1 Analyseren BoE5 Managen BoE4 Beheren BoE7 Onderzoeken BoE8 Professionaliseren BoE6 Adviseren							
Target group	The objective of this project is to have the process in order to prepare them further The aim of this project is that when the s knowledge and experience in designing a	he objective of this project is to have the students execute as independently as possible a full scale design rocess in order to prepare them further for their professional situation. he aim of this project is that when the student successfully completes this project he will have more in depth powledge and experience in designing a product in the line of the curriculum paths "Working" and "Making"						
Educational content	The project focuses on the working and the Subjects that are part of the process are; Biomimicry Functional testing Factory excursions (self organised) and Mechanical strength analysis	The project focuses on the working and the making of a product. Subjects that are part of the process are; • Biomimicry • Functional testing • Factory excursions (self organised) and design rules of production techniques • Machanical extended and the making of a production techniques						
Teaching methods	Project activities, lectures and workshops							
Teaching aids	Everything that is needed for the project	and that can be made availa	ble.					
Supervisory activity	Coaching							
Sequentiality								
Level	Bachelor = NLQF 6							
Grading domain	1 t/m 10, 1 dec.							
Assesment	Sub assessment	Gradingdomain	Weight	Caesura				
	P1 Project Allround Designer Engineering: Project grading	1 t/m 10, 1 dec.	1	Higher or equal to 5.5				
	P2 Project Allround Designer Engineering: Biomimicry	Achieved / not achieved	0	Higher or equal to 5.5				
	P3 Project Allround Designer Engineering: Functional testing	Achieved / not achieved	0	Higher or equal to 5.5				
	P4 Project Allround Designer Engineering: Excursions & Design rules	Achieved / not achieved	0	Higher or equal to 5.5				
	P5 Project Allround Designer Engineering: Mechanical Strength Analysis	Achieved / not achieved	0	Higher or equal to 5.5				
Reading list								
Practical actions								

	Descriptio	on of the educa	tional unit					
Course code:	EDPADI.18.V.01 C	Credits:	<b>21</b> Ec's	Target group: <b>N</b>	oltijd Regulier			
Description	Project Allround Designer: Innovation							
Competences	BoE3 Realiseren							
	BoE2 Ontwerpen							
	BoE1 Analyseren							
	BoE5 Managen							
	BoE4 Beheren							
	BoE7 Onderzoeken							
	BoE8 Professionaliseren							
	BoE6 Adviseren							
Target group	The objective of this project is to have t process in order to prepare them furthe The aim of this project is that when the knowledge and experience in designing	The objective of this project is to have the students execute as independently as possible a full scale design process in order to prepare them further for their professional situation. The aim of this project is that when the student successfully completes this project he will have more in depth knowledge and experience in designing a product in the line of the curriculum path "Selling".						
Educational content	The project focuses on Innovation. Subjects that are part of the process are; Advanced marketing Innovation Method Management Business Strategy Market Poscarch							
Teaching methods	Project activities, lectures and workshop	ps.						
Teaching aids	Everything that is needed for the project	ct and that can b	e made availab	le.				
Supervisory activity	Coaching							
Sequentiality								
Level	Bachelor = NLQF 6							
Grading domain	1 t/m 10, 1 dec.							
Assesment	Sub assessment	Gradingdoma	ain	Weight	Caesura			
	P1 Project Allround Designer Innovation: project grading	1 t/m 10, 1 d	lec.	1	Higher or equal to 5.5			
	P2 Project Allround Designer Innovation: Advanced Marketing	Achieved / n	ot achieved	0	Higher or equal to 5.5			
	P3 Project Allround Designer Innovation: Innovation Method Management	Achieved / n	ot achieved	0	Higher or equal to 5.5			
	P4 Project Allround Designer Innovation: Business Strategies	Achieved / n	ot achieved	0	Higher or equal to 5.5			
	P5 Project Allround Designer Innovation: Market Research	Achieved / n	ot achieved	0	Higher or equal to 5.5			
Reading list								
Practical actions								

Description of the educational unit						
Course code:	EDPADPE.18.V.01 Cr	redits: <b>21</b> Ec's	Target group: <b>V</b>	oltijd Regulier		
Description	Project Allround Designer: Product Expe	rience				
Competences	BoE3 Realiseren					
	BoE2 Ontwerpen					
	BoE1 Analyseren					
	BoE5 Managen					
	BoE4 Beheren					
	BoE7 Onderzoeken					
	BoE8 Professionaliseren					
	BoE6 Adviseren					
Target group	The objective of this project is to have to process in order to prepare them further The aim of this project is that when the knowledge and experience in design a p	he students execute as indeper r for their professional situation student successfully completer roduct in the line of the curric	endently as possible on. Is this project he wi ulum path "product	a full scale design Il have more in depth experience".		
Educational content	The project focuses on product experience. Subjects that are part of the process are; • Consumer Experience • Meaningful Design • Design Research • Product Context					
Teaching methods	Project activities, lectures and workshop	s.				
Teaching aids	Everything that is needed for the projec	t and that can be made availa	ble.			
Supervisory activity	Coaching					
Sequentiality						
Level	Bachelor = NLQF 6					
Grading domain	1 t/m 10, 1 dec.					
Assesment	Sub assessment	Gradingdomain	Weight	Caesura		
	P1 Project Allround Designer product experience: project grading	1 t/m 10, 1 dec.	1	Higher or equal to 5.5		
	P2 Project Allround Designer product experience: Consumer Experience	Achieved / not achieved	0	Higher or equal to 5.5		
	P3 Project Allround Designer product experience: Product Research	Achieved / not achieved	0	Higher or equal to 5.5		
	P4 Project Allround Designer product experience: Meaningful Design	Achieved / not achieved	0	Higher or equal to 5.5		
	P5 Project Allround Designer product experience: Product Context	Achieved / not achieved	0	Higher or equal to 5.5		
Reading list						
Practical actions						

	Description of the educational unit				
Course code:	EDPL.16.V.01	Credits:	<b>2</b> Ec's	Target gr	oup: Voltijd Regulier
Description	Professional Life				
Competences	-				
Target group	This subject is part of the cu on a professional life as a ge Many students will work for of this course is obvious. Als all aspects of a business. Th are to be dealt with in small actual developments in the	urriculum of the minor all ro eneral designer. The course smaller companies or will s so when working in a small is course will give a first gl businesses. During the cou business.	ound design w gives a multi start their owr er company th impse of what urse there will	which aims a i sided view h bureau. Fo he student v t is importa l be opportu	It preparing students of the profession. or the latter the utility will be confronted with nt and what aspects unities to discuss about
Educational content	The course will deal with the - The design office - A professional Linked in pa - Your portfolio - Choosing a job - Applying for a job - Pitching - Meeting alumni - Protecting your ideas - Networking - Website setup - start up subsidies	e main subject "starting as	a professiona	l designer":	
Teaching methods	Classroom lessons and i	ndividual assignments			
Teaching aids	Usual AV means				
Supervisory activity	Coaching of the assignm	nents.			
Sequentiality	See the entry requirements have proven advanced know	of the students' statute (S vledge of industrial design.	NS) of Industr	rial Design.	Foreign students must
Level	Gevorderd (Advanced)				
Grading domain	1 t/m 10, 1 dec.				
Assesment	Sub assessment	Gradingdomai	n	Weight	Caesura
	P1 Professional life	1 t/m 10, 1 de	eC.	1	Higher or equal to 5.5
Reading list	Kitty de Jong e.a. (2010). For the Dutch students: Handboek voor het opzetten van een ontwerppraktijk Amsterdam: Bisiness				
Practical actions					



EXCHANGE PROGRAMME APPLIED MECHANICS 2020-2021

Description of the educationa unit							
Course code	EDAMCO.1	Credits	Ec's	Target group	o <b>o ti d e u ier</b>		
Description	Composites						
Competences	-						
Target group	<ul> <li><u>Composites:</u></li> <li>Introduction to materi</li> <li>Introduction to basic composition</li> </ul>	<ul> <li><u>Composites:</u></li> <li>Introduction to materials, production and applications of composites.</li> <li>Introduction to basic calculation methods for stress and strain in composite materials.</li> </ul>					
Educational content	<ul> <li>Intent Composites:</li> <li>Introduction to materials, production and applications of composites.</li> <li>Introduction to basic calculation methods for stress and strain in composite materials.</li> </ul>						
Teaching methods	Lectures and Workshop						
Teaching aids	Solidworks Cad and Solid	Works Simulation Add-In,	on laptop				
Supervisory activity	Instruction and coaching						
Sequentiality							
Level	Gevorderd (Advanced)						
Grading domain	1 t/m 10, 1 dec.						
Assesment	Sub assessment	Gradingdo	omain	Weight	Caesura		
	T1 Composites	1 t/m 10,	1 dec.	1	Higher or equal to 5.5		
Reading list	R.P.L.Nijssen (2013). Cor	nposieten: Basiskennis. M	arknesse VKCN				
Practical actions							

	I	Description of the e	ducationa unit			
Course code	EDAMMV.1	Credits	Ec's	Target group	o ti d e u ier	
Description	Modelling and Validation					
Competences	-					
Target group	<ul> <li>Mode in &amp; a idation:</li> <li>Assessing actual Strength and Stability problems by combined application (1) Theoretical calculation models, (2) FEM-analysis models and (3) Testing.</li> </ul>					
Educational content	<ul> <li>Mode in &amp; a idation:</li> <li>Assessing actual Strength (2) FEM-analysis models</li> </ul>	and Stability probler and (3) Testing.	ns by combined a	pplication (1) Theor	etical calculation models,	
Teaching methods	Lectures and Workshop					
Teaching aids	Solidworks Cad and Solid Wo	rks Simulation Add-I	n, on laptop			
Supervisory activity	Instruction and coaching	Instruction and coaching				
Sequentiality						
Level	Gevorderd (Advanced)					
Grading domain	1 t/m 10, 1 dec.					
Assesment	Sub assessment	Grading	Idomain	Weight	Caesura	
	P1 Modelling and Validation	1 t/m 1	0, 1 dec.	1	Higher or equal to 5.5	
Reading list						
Practical actions	Experience lessons					
		Description of the e	ducationa unit			
Course code	EDAMPCOM4.1	Credits	<b>1</b> Ec's	Target group	o ti d e u ier	
Description	Professional communicati	on				
Competences	-					
Target group	Acquire knowledge and deve	lon skills in the field	of oral and writte			
Educational content	Students choose two commu Both themes are linked to ora	nication themes ( our al and written comm	t of four) in which unication.	they want to enha	nce their knowledge.	
Teaching methods	Practical lectures during whic et cetera	h the content is expl	ained , after whic	h it can be applied	in exercises , assignments	
Teaching aids	Audiovisual aid					
Supervisory activity	Teaching, coaching					
Sequentiality						
Level	Gevorderd (Advanced)					
Grading domain	1 t/m 10, 1 dec.					
Assesment	Sub assessment	Grading	domain	Weight	Caesura	
	P1 Professionele Communica	tie 4 1 t/m 1	0, 1 dec.	1	Higher or equal to 5.5	
Reading list						
Practical actions						

	Description of the educationa unit					
Course code	EDAMTE.20	Credits	<b>1</b> Ec's	Target group	o <b>o ti d e u ier</b>	
Description	Technical English for Applied I	Mechanics				
Competences	-					
Target group	Technical English in the minor Applied Mechanics involves translating technical texts/sentences from Dutch into English. Furthermore the students are required to write a report in English of their project( approximately 15 pages).					
Educational content	During lectures the writing sk	ill is practised by summ	arizing and trar	nslating minor re	lated texts.	
Teaching methods	Training during lectures					
Teaching aids	Reader					
Supervisory activity	Coaching and feedback by ma	il				
Sequentiality	Having successfully completed	d the first and second ye	ear courses			
Level	Gevorderd (Advanced)					
Grading domain	1 t/m 10, 1 dec.					
Assesment	Sub assessment	Gradingdom	nain	Weight	Caesura	
	P1 Technical English for AM	1 t/m 10, 1	dec.	1	Higher or equal to 5.5	
	P2 Technical English for AM	1 t/m 10, 1	dec.	1	Higher or equal to 5.5	
Reading list						
Practical actions						

	Description of the educationa unit				
Course code	EDAT1E.16.V.01 Cre	dits Ec's	Target group	o ti d e u ier	
Description	Drive Technology 1				
Competences	-				
Target group	Basic knowledge about electrical drive sys Advanced knowledge about machinecomp	stems ponents			
Educational content	Machinecomponents 3 Interference fit couplings bolt connections Elecrtical drive systems Interaction motor and load DC-motors Steppermotors AC-power 3 phase systems Induction motors				
Teaching methods	<ul><li>Lecture</li><li>Practical workshop</li></ul>				
Teaching aids	<ul><li>Energy lab</li><li>Pin on disk</li><li>Calculator</li></ul>				
Supervisory activity	Teaching at college and workshop hor	urs			
Sequentiality	Mathematics and physics at highschool le	vel			
Level	Gevorderd (Advanced)				
Grading domain	1 t/m 10, 1 dec.				
Assesment	Sub assessment	Gradingdomain	Weight	Caesura	
	P1 Drive Techn. 1 Lab work	Achieved / not achieved	0	Higher or equal to 5.5	
	T1 Drive Techn. 1 Machine components 3	1 t/m 10, 1 dec.	1	Higher or equal to 5.5	
	T2 Drive Techn. 1 Electrical drive systems	1 t/m 10, 1 dec.	1	Higher or equal to 5.5	
Reading list	<ul> <li>H. Wittel, D. Muhs, J. Vossiek, D. Jannasch (2013). Roloff / Matek machineonderdelen - Theorieboek. Den Haag Academic Service</li> <li>H. Wittel, D. Muhs, J. Vossiek, D. Jannasch (2013). Roloff / Matek machineonderdelen - Tabellenboek. Den Haag Academic Service</li> </ul>				
Dractical actions	Theodore Wildi (2013). Electrical Machine	es, Drives and Power Systems	s. Amsterdam Pe	arson Education	

	Description of the educationa unit				
Course code	EDD.16.V.01 Cr	edits Ec's	Target group	o ti d e u ier	
Description	Designtools				
Competences	-				
Target group	Become acquainted with various design	tools ,deepen and increase kn	owledge of two op	otional design tools	
Educational content	During these practical lectures an overview of different design tools is given. After the introduction you have a choice of which design tools you would like to increase your knowledge. The minimum is two, but you may choose more. It concerns the following tools (they are examples ,the actual overview is provided in the course description every year).				
	KISSOFT: a software tool which is used field of gearwheel calculations.	to calculate on machine - and	l engine parts. Thi	s package is leading in the	
	CE-marking: it deals with technical -and and products.	l legal aspects, safety and liab	ility concerning th	e construction of machines	
	Solid Works Motion/PDM: Motion is an extensive Multibody package which , among others, is used during the development or design of cars and rollercoasters. The practical lectures about Product Data Management are provided in cooperation with the company VMI. You acquire knowledge about important matters and recent developments in this area (specifically of interest for mechanical engineers)				
	FMECA: During this part of the course a and to improve the reliability of machine Failure mode, effects and criticality anal lubrication.	solid base is established for d es. ysis deals with e.g. loads on c	esign methods an ontact surfaces, fr deal with distortio	d procedures to determine riction, wear and	
	behaviour but with the limitations of co	ventional calculations as well.			
Teaching methods	<ul> <li>Lectures</li> <li>Practical workshops</li> </ul>				
Teaching aids	Various resources depending on the cho	sen design tools			
Supervisory activity	Teaching at college and workshop h	ours			
Sequentiality	Second year mechanical engineering				
Level	Gevorderd (Advanced)				
Grading domain	1 t/m 10, 1 dec.				
Assesment	Sub assessment	Gradingdomain	Weight	Caesura	
	P1 Designtools Introductions	Achieved / not achieved	0	Higher or equal to 5.5	
	P2 Designtool 1	1 t/m 10, 1 dec.	1	Higher or equal to 5.5	
	P3 Designtool 2	1 t/m 10, 1 dec.	1	Higher or equal to 5.5	
Reading list			, I	<u> </u>	
Practical actions					

Description of the educationa unit					
Course code	EDD V.20	Credits	Ec's	Target grou	p <b>otideuier</b>
Description	Dynamics and Vibration				
Competences	-				
Target group	<ul> <li>To provide the student with a clear and thorough presentation of topics in Engineering Dynamics such as; Relative Motion Analysis using using transulating and Rotating Axes, Coriolis acceleration, Linear and Angular Momentum of a Particle, Impact Mechanics and Linear and Angular Momentum of a Rigid Body.</li> <li>To provide the student with a clear and thorough presentation of the theory and applications of Mechanical vibration.</li> </ul>				
Educational content	Quarter Relative Motion Anal Linear and Angular M Impact Mechanics Linear and Angular M Basic concepts of vib Vibration analysis Spring elements Mass or inertia eleme Damping elements	ysis using Rotating Axes Iomentum of a Particle Iomentum of a Rigid Boo ration ents	, Coriolis acceleratio dy	n	
Teaching methods	<ul><li>Interactive Lectures</li><li>Company guest lectures</li></ul>	ire			
Teaching aids	<ul> <li>Weekly presentation:</li> <li>Problem list</li> <li>Homework</li> </ul>	S			
Supervisory activity	<ul><li>Lecturing</li><li>supervision</li></ul>				
Sequentiality					
Level	Gevorderd (Advanced)				
Grading domain	1 t/m 10, 1 dec.				
Assesment	Sub assessment	Gradir	ngdomain	Weight	Caesura
	T1 Dynamics and Vibrat	ion 1 t/m	10, 1 dec.	1	Higher or equal to 5.5
Reading list	Russell Charles Hibbeler	(). Engineering Mechan	ics Dynamics. Pears	on Education	
Practical actions					

	Descri	ption of the education	ona unit						
Course code	EDPAM1.18.V.01	Credits	<b>6</b> Ec's	Target group	otideu ier				
Description	Project Applied Mechanics								
Competences	-								
Target group	The project starts with an assignmer for the analysed problems.	nt of a company. The g	oal of the pro	pject is to provide	e a constructive solution				
Educational content	<ul><li>Project assignment</li><li>Analyse and research a construct</li></ul>	tion problem and prov	viding a solut	ion					
Teaching methods	Group assignment								
Teaching aids	Books     Any resource								
Supervisory activity	Coaching								
Sequentiality									
Level	Gevorderd (Advanced)								
Grading domain	1 t/m 10, 1 dec.								
Assesment	Sub assessment	Gradingdomain		Weight	Caesura				
	P1 Project Applied Mechanics	1 t/m 10, 1 dec		1	Higher or equal to 5.5				
Reading list									
Practical actions	Project uitgevoerd bij externe organ	isatie							
	Descri	ption of the education	ona unit						
Course code	EDRPAM.18.V.01	Credits	Ec's	Target group	otideu ier				
Description	Report Project Applied Mechanics								
Competences	-								
Target group	The project starts with an assignmer for the analysed problems.	nt of a company. The g	oal of the pro	pject is to provide	a constructive solution				
Educational content	<ul> <li>Project assignment</li> <li>Analyse and research a construct</li> </ul>	tion problem and prov	/iding a solut	ion					
Teaching methods	Group assignment								
Teaching aids	Books     Any resource								
a .	,			Coaching					
activity	Coaching								
Supervisory activity Sequentiality	Coaching								
Supervisory activity Sequentiality Level	Coaching Gevorderd (Advanced)								
Supervisory activity Sequentiality Level Grading domain	Coaching Gevorderd (Advanced) 1 t/m 10, 1 dec.								
Supervisory activity Sequentiality Level Grading domain Assesment	Coaching Gevorderd (Advanced) 1 t/m 10, 1 dec. Sub assessment	Gradingdomain		Weight	Caesura				
Supervisory activity Sequentiality Level Grading domain Assesment	Coaching Gevorderd (Advanced) 1 t/m 10, 1 dec. Sub assessment P1 Report Project Applied Mechanics	Gradingdomain s 1 t/m 10, 1 dec		Weight	Caesura Higher or equal to 5.5				
Supervisory activity Sequentiality Level Grading domain Assesment Reading list	Coaching Gevorderd (Advanced) 1 t/m 10, 1 dec. Sub assessment P1 Report Project Applied Mechanics	Gradingdomain s 1 t/m 10, 1 dec		Weight	Caesura Higher or equal to 5.5				



**EXCHANGE PROGRAMME** 

Concept and Creation 2020-2021

Description of unit of study						
Course code	ICT.KS.CC.V20	Credits:	<b>24</b> ec	Target group: Full	time Regular	
Study unit Description	Concept & Creation					
Competences	-					
Target group	<ul> <li>in this minor you will learn about:</li> <li>developing a concept from scratch • applying your skills in a creative and flexible way • (social) media management • design thinking • deepening your skillset by diving into your field of expertise • nformation management (how to find the right tools to teach yourself online).</li> <li>After following this minor you will have learned what it means to: • deal with a multidisciplinary, nternationally oriented community and project group • deal with real-life challenges of teamwork and group dynamics • use (technological) tools to become an expert in your field of study • start up a company • sell your own product • work together with other professionals for your company's benefit.</li> </ul>					
Educational content	In this minor you will be one of the experts in your field of study; in your group you will even be seen as the expert in your field. You will assume the perspective of entrepreneurs in the start-up phase of a real business. This means you will face the challenges of a real multidisciplinary and internationally oriented business. The more energy, passion and time you put into your concept, the more you will learn about making it in the real world. Of course you can learn skills from another fields too, if you choose to challenge yourself. If so, you need to take an active role in pursuing your goals. This minor is all about autonomy; you are the director of your own learning cycle. Students enrolled in this minor will select two Professional Skills (3ECTS each course) from our list of					
Teaching methods	<ul> <li>Groups work on their group projects in a community setting</li> <li>Intervision in different expertise groups</li> <li>Dragons' Den</li> <li>Presentations</li> <li>Knowledge Lectures</li> <li>Workshops</li> <li>Presentation at Winnovation</li> </ul>					
Teaching aids	BYOD: a laptop is mandator	y. Freely-accessible	learning n	naterials are used.		
Supervisory activity	Students are coached on project approach in their project groups on a weekly basis. Workshops will contribute to the project's needs.					
Level	Gevorderd (Advanced)					
Grading domain	1 t/m 10, 1 dec.					
Assessment	Sub assessment	Grading domain		Weight	Caesura	
	A - Portfolio	1 t/m 10, 1 dec.		1	Higher or equal to 5.5	
	Professional attitude	1 t/m 10, 1 dec.		0	Higher or equal to 5.5	
Reading list						



EXCHANGE PROGRAMME

Data-driven Innovation 2020-2021

Description of unit of study						
Course code	ICT.KS.DDI.V20	Credits: 24 ECTS credits 7	arget group: <b>F</b>	Fulltime Regular		
Study unit Description	Data Driven Innovation					
Competences	-					
Target group	Data-driven Innovation focuses on aligning Business and IT, preparing a company for the digital future, using data. Data that is already present at the company, in some cases combined with external data. Data-driven Innovation is a structural change in the way an organization can add value to its customers. It is a turning point in thinking about how an organization uses technology to re-establish processes. It changes the business model and therefore offers new opportunities. Organizations need to adapt to this change by focusing on optimizing the customer's gain, control and retention. Processes can be redesigned, just as marketing, production and sales. And that also creates needs for a new policy on security, privacy and ethics. This is more and more controlled based on data-driven insights. But it also offers new possibilities in terms of learning and prediction. You obtain advanced knowledge about project management, creating business solutions and doing research, while working on a project for a customer. You work with data, sometimes to recognize patterns, sometimes to forecast, sometimes to organize a datalab, or There are many options, but data-driven innovation is the key.					
Educational content	Data-driven Innovation projects can vary considerably. In Data-driven Innovation, every project is different, which means that the learning opportunities can vary as well. It is up to the student how you choose to shape your semester. To help the students with their projects, a number of workshops can be attended. Some of them are obligatory (e,g., project management, planning), others are elective (scrum, game design etc.). The workshops are not graded individually, but are aimed to contribute to the success of the specific projects. Students enrolled in this minor will select two Professional Skills (3ECTS each course) from our list of elective courses (Leadership, Financial Management, 7 Habits etc.) Some examples of content are: Organizing and setting up a datalab; Forcasting production based on data of the past; Machine learning; Business Process Redesign; Integration of several different systems and applications; Using data to predict the effect of climatological issues; Formulating a(n) (renewed) IT strategy and policy; Dealing with and effects of the GDPR for the organisation; IT architecture or					
Teaching methods	Students work on a large project for 20 weeks. The project is done for actual client or in a real-life setting. The multidisciplinary student teams of 3 to 5 students work on the project for 32 hours every week (Tuesday to Friday) at school or at the client's location. As part of the project there are project coaching sessions, workshops contributing to your project and regular presentations in which students share their obtained knowledge and progress. The professional skills are scheduled on Mondays. Therefore students will need to be available from Monday to Friday during this semester.					
Teaching aids	Only freely-accessible learning materials are being used. When specific hardware of software is needed for your project, this will be provided. Sometimes a client has specific software. Use of it, and the conditions, will be discussed with the client.					
Supervisory activity	Students are coached in project's needs.	their project groups on a week	ly basis. Works	shops will contribute to the		
Level	Gevorderd (Advanced)					
Grading domain	1 t/m 10, 1 dec.					
Assessment	Sub assessment	Grading domain	Weight	Caesura		
	Portfolio	1 t/m 10, 1 dec.	1	Higher or equal to 5.5		
	Professional Attitude	Not achieved / Achieved	0	Higher or equal to 5.5		
Reading list						



EXCHANGE PROGRAMME

Future Technology 2020-2021

MajorH: /H.ICT.KSFT.V20		
	MajorH:	/H.ICT.KSFT.V20

Description of unit of study							
Course code	ICT.KS.FT.V20	Credits:	<b>24</b> ec	Target	group: Full time Regular		
Study unit Description	Future Technology						
Competences	-						
Target group	work on new applications using technology. Conducting research, developing proof-of-concepts and/or building prototypes form a substantial part of most projects. Future Technology is one of the elective semesters of HBO-ICT. In these semesters, you learn to participate in projects in a professional working environment. This is done in multidisciplinary teams for actual client or a real-life setting. In this way, you learn from the professional environment, as well as other disciplines in the project. The feedback, evaluation and supervision focuses on preparing students as much as possible for the final graduation phase of the study programme.						
Educational content	The Future Technology projects can vary considerably. Examples are developing new hardware devices, the optimization of business processes using technology or the deployment of new technology and/or new applications. Every project is different, which means that the learning opportunities can vary as well. In Future Technology, every project is different, which means that the learning opportunities can vary as well. It is up to you how you choose to shape your semester. To help the you with your project, a number of workshops can be attended. Some of them are obligatory (e,g., project management, research set-up), others are elective (scrum, design thinking). The workshops are not graded individually, but are aimed to contribute to the success of the specific projects. As a student enrolled in this minor, you will select two Professional Skills (3ECTS each course) from our list of elective courses (Leadership, Financial Management, 7 Habits etc.)						
Teaching methods	You work on a large project for 20 weeks. The project can have an organisation as client or be initiated by a curious student or lecturer. The multidisciplinary student teams of 3 to 5 students work on the project for 32 hours every week (Tuesday to Friday) at school or at the client's location. As part of the project there are project coaching sessions, workshops contributing to your project and regular presentations in which students share their obtained knowledge and progress. The professional skills are scheduled on Mondays. Therefore students will need to be available from Monday to Friday during this semester						
Teaching aids	Only freely-accessible learning materials are being used. When specific hardware of software is needed for your project, this will be provided.						
Supervisory activity	Students are coached in their project groups on a weekly basis. Workshops will contribute to the project's needs.						
Level	Gevorderd (Advanced)						
Grading domain	1 upto and including 10, 1 dec	• 					
Assessment	Sub assessment	Grading domain	1	Weight	Caesura		
	Portfolio Assessment	1 t/m 10, 1 dec		1	Higher or equal to 5.5		
	Professional Attitude	Not achieved /	achieved	0	Higher or equal to 5.5		
Reading list							



**EXCHANGE PROGRAMME** 

Game Studio 2020-2021

Description of unit of study						
Course code	ICT.KS.GS.V2 0	Credits:	<b>24</b> ec	Target g	roup: <b>Fullti</b>	ne Regular
Study unit Description	<u>Game Studio</u>					
Competences	-					
Target group	The semester Game Studio can be seen as an internship at Windesheim's own game studio, 038Games. At 038Games, students from different disciplines (such as IT, art, design) design and implement (serious) games for actual clients. These clients have a problem which they think could be solved using a game. It is up to the students to come up with various designs for this game and implement one of them to at least a working prototype. Game Studio is one of the elective semesters of HBO-ICT. In these semesters, students learn to participate in projects in a professional working environment. This is done in multidisciplinary teams for actual client or a real-life setting. In this way, students learn from the professional environment, as well as other disciplines in the project. The feedback, evaluation and supervision focuses on preparing students as much as possible for the final graduation phase of the study programme.					
Educational content	The projects in Game Studio can range from escape rooms, to mobile games, VR, et cetera. Mostly, the type of game that has to be developed is not decided on yet. In Game Studio, every project is different, which means that the learning opportunities can vary as well. It is up to the student how you choose to shape your semester. To help the students with their projects, a number of workshops can be attended. Some of them are obligatory (e,g., project management, planning), others are elective (scrum, game design). The workshops are not graded individually, but are aimed to contribute to the success of the specific projects. Students enrolled in this minor will select two Professional Skills (3ECTS each course) from our list of					
Teaching methods	Students work on a large project for 20 weeks. The project is done for actual client or in a real-life setting. The multidisciplinary student teams of 3 to 5 students work on the project for 32 hours every week (Tuesday to Friday) at school or at the client's location. As part of the project there are project coaching sessions, workshops contributing to your project and regular presentations in which students share their obtained knowledge and progress. The professional skills are scheduled on Mondays.					
Teaching aids	Only freely-accessible learning materials are being used. When specific hardware of software is needed for your project, this will be provided.					
Supervisory activity	Students are coached in their project groups on a weekly basis. Workshops will contribute to the project's needs.					
Level	Gevorderd (Advanced)					
Grading domain	1 t/m 10, 1 dec.					
Assessment	Sub assessment	Grading do	omain		Weight	Caesura
	Portfolio	1 t/m 10, 1	1 dec.		1	Higher or equal to 5.5
	Professional attitude	Not achiev	ed / achiev	ved	0	Higher or equal to 5.5
Reading list						



**EXCHANGE PROGRAMME** 

Games Programming 2020-2021

Major H:

MH.ICT.KSGP.V20

		1	Description of unit	of study
Course code	ICT.GP.CG.V20	Credits: <b>Regular</b>	5 ECTS credits	Target group: Fulltime
Study unit Description	Computer Graphics			
Competences	-			
Target group	Almost every game is played in a graphica create these environments. The theoretica and other libraries. With the help of these feel with respect to the material the object	Il two- or three-dimer Il basis will be covered libraries you can mar t is made of.	nsional space. In this d, as well as practical nipulate objects in sp	course you will learn how to l implementation using OpenGL ace and change their look and
Educational content	Topics: • Shaders • Transformations • Texture Mapping • 3D Modeling • Theoretical and mathematical backgro • CPU vs GPU	und		
Teaching methods	<ul><li>Lectures and labs (combined)</li><li>Assignments in pairs</li></ul>			
Teaching aids	See Electronic Learning Environment.			
Supervisory activity	<ul><li>Explanation of theory</li><li>Practice implementation in classroom</li><li>Discussion and question answering</li></ul>			
Level	Gevorderd (Advanced)			
Grading domain	1 t/m 10, 1 dec.			
Assessment	Sub assessment	Grading domain	Weig	ght Caesura
	Final assignment	1 t/m 10, 1 dec.	70	Higher or equal to 5.5
	Homework	1 t/m 10, 1 dec.	30	Higher or equal to 5.5
Reading list				

		Description of unit of study					
Course code	ICT.GP.CPP.V20	Credits: <b>Regular</b>	3 ECTS credits	Target	group: Fulltime		
Study unit Description	C++ Programming						
Competences	-						
Target group	Nowadays the game industry mostly Engine. To add functionality to the U programming language that is used from programming languages like Ja management. You will learn C++ PI	lowadays the game industry mostly works with sophisticated game engines, like the CryEngine or the Unreal ingine. To add functionality to the Unreal Engine, you have to program in C++. C++ is a widely-used programming language that is used in the gaming industry as well as in many other industries. C++ is different rom programming languages like Java or C#, mainly because you are responsible for your own memory nanagement. You will learn C++ Programming in a Windows environment.					
Educational content	<ul> <li>Introduction C++</li> <li>Classes in C++</li> <li>Object orientation in C++</li> <li>Templates</li> <li>STL Classes (IO streams, vectors, etc.)</li> <li>Pointers &amp; references</li> <li>Usage of C++ in a Windows environment</li> </ul>						
Teaching methods	<ul><li>Lectures</li><li>Labs</li><li>Assignments</li></ul>						
Teaching aids	<ul> <li>Visual Studio 2015</li> <li>See "Electronic Learning Environ</li> </ul>	nment" (ELO)					
Supervisory activity	Through digital media and oral communication						
Level	Gevorderd (Advanced)						
Grading domain	1 t/m 10, 1 dec.						
Assessment	Sub assessment	Grading domain	Wei	ght	Caesura		
	Lab exam	1 t/m 10, 1 dec.	1		Higher or equal to 5.5		
Reading list							

Description of unit of study						
Course code	ICT.GP.PRJCT.V20	Credits:	<b>10</b> ECTS credits Ta	rget group: <b>Fu</b>	lltime Regular	
Study unit Description	Game Project					
Competences	-					
Target group	You will create a (serious) game in a smal	l group of	fellow students.			
Educational content	<ul> <li>You will have the option to choose between:</li> <li>Designing and implementing your own game.</li> <li>Creating a (serious) game for a real client.</li> <li>Doing research into new technology and building a prototype game demonstrating the capabilities.</li> <li></li> </ul> The project has to meet a number of criteria, and will be approved or disapproved by a lecturer. The project requires the use of challenging technology.					
Teaching methods	<ul><li>Working in a project group</li><li>Workshops</li></ul>					
Teaching aids	See Electronic Learning Environment					
Supervisory activity	Through digital media and oral communication	ation				
Level	Gevorderd (Advanced)					
Grading domain	1 t/m 10, 1 dec.					
Assessment	Sub assessment	Grading d	omain	Weight	Caesura	
	Assessment	1 t/m 10,	1 dec.	1	Higher or equal to 5.5	
Reading list						

Description of unit of study									
Course code	ICT.GP.AAI.V20	Credits: 6 ECTS credits	Target group:	Fulltime Regular					
Study unit Description	Game Algorithms and Artificial Intelligence	Game Algorithms and Artificial Intelligence							
Competences	-								
Target group	During this course students will learn about intelligence techniques to create intelligen	ut algorithms specifically for games a t computer players.	and how to app	ly various artificial					
Educational content	Some of the topics that will be covered and Generating and Solving Mazes Backtracking Techniques Minimax algorithm and Alfa-Beta Prun Path Planning Steering Behaviours State Machines Goal-driven Behaviours Fuzzy Logic	e: ing							
Teaching methods	<ul><li>Lectures</li><li>Labs</li><li>Assignments</li></ul>								
Teaching aids	See: Electronic Learning Environment								
Supervisory activity	Through digital media and oral communica	ation							
Level	Gevorderd (Advanced)								
Grading domain	1 t/m 10, 1 dec.								
Assessment	Sub assessment	Grading domain	Weight	Caesura					
	Assignment	1 t/m 10, 1 dec.	2	Higher or equal to 5.5					
	Theory exam	1 t/m 10, 1 dec.	1	Higher or equal to 5.5					
Reading list									



EXCHANGE PROGRAMME Mobile Solutions 2020-2021

Description of unit of study					
Course code	ICT.KS.MS Credits: 24 ec Target group: Fulltime Regular .V20				
Study unit Description	Mobile Solutions				
Competences	-				
Target group	If you want to work with others on developing a ready-to-use native or hybrid iOS and/or Android app for actual clients. If you want to collaborate with students from different disciplines and with a variety of expertise. If you are willing to tackle problems that require a multidisciplinary solution. If you want to find and implement a solution for a real-life business assignment. Then the semester Mobile Solutions fits you perfect! The success of as app depends on a good architecture and technical development. It also involves carefully considered features, a good infrastructure, as well as that the application is designed in such a way that users have an optimal user experience. Together with the product owner and your team you specify the requirements. Once you have built a new feature, you will measure whether the intended goals have been met or not and tweak if necessary the application. You strive to realize an app that is in production by the client's company after the semester is accomplished: in Apple's app store and/or Google Play or in a private app store. <b>Open to all HBO students</b> Mobile Solutions is one of the elective broadening semesters of HBO-ICT. You learn to participate in a project in a professional and agile working environment. This is done in a multidisciplinary team with a real client. This semester is open for all HBO students who are interested in learning how-to develop an app. And				
	that is more than only the technical part, amongst others topics like user-experience, commercial and legal aspects and privacy are at stake. In this way you will learn about the professional environment as well as from other disciplines in your project. The feedback, evaluation and supervision focuses on preparing you as much as possible for the final graduation phase of their study program.				
Educational content	The projects in Mobile Solutions range from building a minimum viable product (MVP) from scratch to optimizing and expand an existing app. You choose your project, team and technology stack The assignments may vary in nature. You choose at the kick-off in which team, client and technology stack you will pursue your assignment. The technology stack can comprise native app development or hybrid using frameworks like Ionic or Xamarin. There are only two main requirements: it must be a mobile app and yield a working (prototype) product. Topics like requirements engineering, user experience research, legal aspects, security issues, marketing, data science, iterative and incremental development, testing, use of sensors are addressed during the assignment. As every project is different the learning opportunities can vary as well. It is up to you, supported by your Windesheim coach, how you choose to shape your semester. The assignment is mainly conducted at the client's premises and partly at the ICT Community at Windesheim. Learning opportunities To help you with your project a number of workshops are available. Some are obligatory (e.g. project management, consulting skills), others are elective (SCRUM, growth hacking, interview techniques, game design). The workshops are not graded individually, but are aimed to contribute to the success of the concerning project. During the semester you will participate in knowledge-sharing sessions. Thus to ensure that knowledge of innovative techniques is passed on to the other teams. Company visits and guest lectures might also be a part of this elective semester program. At the end of the semester you present your app at the Winnovation Expo.				
Teaching methods	<ul> <li>Large project <ul> <li>for actual client or in real-life setting</li> <li>32-hours per week</li> <li>three to five students per team</li> </ul> </li> <li>Weekly coaching</li> <li>Workshops and masterclasses contributing to your projects</li> <li>Regular presentations in which students share their obtained knowledge</li> </ul>				
Teaching aids	Only freely-accessible learning materials are being used, see ELO (Electronic Learning Environment).				
Supervisory activity	Students are coached in their project teams on a weekly basis.				
Level	Gevorderd (Advanced)				
Grading domain	1 t/m 10, 1 dec.				

Assessment	Sub assessment	Grading domain	Weight	Caesura	
	Portfolio- assessment	1 t/m 10, 1 dec.	1	Higher or equal to 5.5	
	Professional attitude	Not achieved / Achieved	0	Higher or equal to 5.5	
Reading list					
Practical actions	Project to perform with an External organisation				



**EXCHANGE PROGRAMME** 

**Operational Management in Industry 2020-2021** 

	Description	n of the educational uni	t			
Course code:	EDAPS.19 Credits: 4 Ec's		Target group: <b>V</b>	oltijd Regulier		
Description	Advanced Planning & Scheduling					
Competences	-					
Target group	Objectives: The student shows how to apply planning manufacturing and services industries. D	Objectives: The student shows how to apply planning and scheduling as forms of decision-making to play an important role in manufacturing and services industries. Detailed course objectives: see study guide				
Educational content	Objectives:					
	Lectures Main topics 1. Intro, MPC systems, S&OP, Man	ufacturing and Dispatching	) rules			
	2. Characteristics of service industries, Projec and CPM.					
	3. Scheduling: Programming, Shift	ing Bottlen Annealing, Tab	u- and Beam Search			
	4. Interval scheduling, Reservation	systems and time tabling				
	5. Economic Lot Scheduling					
	6. Personnel scheduling problems					
Teaching methods	Contents: • Courses • Assignments					
Teaching aids	No special tools needed					
Supervisory activity	Coaching					
Sequentiality						
Level	Gevorderd (Advanced)					
Grading domain	1 t/m 10, 1 dec.		,			
Assesment	Sub assessment	Gradingdomain	Weight	Caesura		
	T1 Advanced Planning & Schedule	1 t/m 10, 1 dec.	1	Higher or equal to 5.5		
Reading list	Pinedo, Michael L. (). Planning and Scheduling in Manufacturing and Services. : Springer					
Practical actions						

Description of the educational unit					
Course code:	EDCE.19 Credits: 4 Ec's		Target group: V	Voltijd Regulier	
Description	Circular Economy				
Competences	-				
Target group	Traditionally we reckon the supply chain of a tangible product to be a network of different companies which are producing, handling and distributing this product; starting with the supplier of raw materials and ending at the end consumer. When the product's life cycle is over, its written off as waste. Circular economy is a new way of thinking, never considering a product's life cycle to be over, but brings back its components or materials back into the supply chain. It regards the supply chains as "closed loops".				
Educational content	<ul> <li>In our classes Circular Economy we present and discuss the development of Circular Economy.</li> <li>These developments are: <ol> <li>Circular supplies or designs: using resources that are fully renewable, recyclable or biodegradable.</li> <li>Recovering of resources: a company should be able to maximize the economic value of product return flows.</li> <li>Prolonging the product life cycle: a company's production system should be focused on extending the lifecycle of products and assets.</li> <li>Development of circular economy markets: collaboration among product users, either individuals or organizations, should be promoted.</li> <li>Products as a service: Provides an alternative to the traditional model of "buy and own." Products are used by one or many customers through a lease or pay-for-use arrangement.</li> </ol> </li> </ul>				
Teaching methods	<ul><li>Theory colleges</li><li>Working colleges: LCA.</li></ul>				
Teaching aids	<ul><li>Book</li><li>Calculator</li></ul>				
Supervisory activity	<ul><li>Theory colleges</li><li>Coaching of assignments during work</li></ul>	ing colleges			
Sequentiality					
Level	Gevorderd (Advanced)				
Grading domain	1 t/m 10, 1 dec.				
Assesment	Sub assessment	Gradingdomain	Weight	Caesura	
	T1 Circular Economy	1 t/m 10, 1 dec.	1	Higher or equal to 5.5	
Reading list					
Practical actions	Practical skills lessons				

		Description of the educational un	hit	
Course code:	EDOS.18.V.01	Credits: 4 Ec's	Target group:	Voltijd Regulier
Description	Operations Strategy			
Competences	-			
Target group	Operations can operate in ac competences. How can you p flexible product? What proces customer satisfaction? This is	cordance with customer needs or beo produce products or services accordir sses, technology and supply chain so s what you will learn during this cour	cause the company poing to customer needs? Ing to customer needs? Ing to customer at your dis se.	ossesses specific Your customer demands a sposal to achieve optimal
Educational content	ent Operations can operate in accordance with customer needs or because the company possesses specific competences. How can you produce products or services according to customer needs? Your customer demands a flexible product? What processes, technology and supply chain solutions are at your disposal to achieve optimal customer satisfaction? This is what you will learn during this course.			
Teaching methods	Contents: • Courses • Assignments			
Teaching aids	No special tools needed			
Supervisory activity	Coaching			
Sequentiality				
Level	Gevorderd (Advanced)			
Grading domain	1 t/m 10, 1 dec.			
Assesment	Sub assessment	Gradingdomain	Weight	Caesura
	T1 Operations Strategy	1 t/m 10, 1 dec.	1	Higher or equal to 5.5
Reading list				
Practical actions				

		Description of the educational u	unit			
Course code:	EDPOMI.18.V.01	Credits: <b>12</b> Ec's	Target group: <b>Vo</b> l	ltijd Regulier		
Description	Project Operational Manage	ement in Industry				
Competences	-	-				
Target group	<ul> <li>Objectives:</li> <li>Experience the challenges of an operational manager in a real life situation.</li> <li>Experience the conflict of interest between short term targets and long term targets.</li> <li>Analyze how the mission and vision of a company can be translated in a strategy and can be implemented in the days work.</li> <li>To analyze these situations.</li> <li>To reflect on this experience.</li> </ul>					
Educational content	<ul> <li>This project is executed within a company or external organization.</li> <li>The language is either Dutch or English depending upon the guest organization.</li> <li>The project will normally be carried out in small groups.</li> <li>Individual assignments are possible in relevant situations.</li> </ul>					
Teaching methods	Assignments for an externa	al organisation.				
Teaching aids	No special tools needed					
Supervisory activity	Coaching					
Sequentiality						
Level	Gevorderd (Advanced)					
Grading domain	1 t/m 10, 1 dec.					
Assesment	Sub assessment	Gradingdomain	Weight	Caesura		
	P1 Proj. Oper. Managemen	t 1 t/m 10, 1 dec.	1	Higher or equal to 5.5		
Reading list						
Practical actions	Project uitgevoerd bij externe organisatie					

Description of the educational unit					
Course code:	EDSIMO.18.V.01	Credits: <b>4</b> Ec's	Target group:	Voltijd Regulier	
Description	Simulation Operational manage	ement in Industry			
Competences	-				
Target group	Simulation about different plan	ning methods within a production	facility.		
Educational content	Simulation about planning heur	ristics.			
Teaching methods	Cases				
Teaching aids	Book Plant Simulation software				
Supervisory activity	Workshops				
Sequentiality					
Level	Gevorderd (Advanced)				
Grading domain	1 t/m 10, 1 dec.				
Assesment	Sub assessment	Gradingdomain	Weight	Caesura	
	P1 Simulation OMI	1 t/m 10, 1 dec.	1	Higher or equal to 5.5	
Reading list					
Practical actions	Practical skills lessons				

Description of the educational unit					
Course code:	EDTOMI.18.V.01 Cre	edits: <b>2</b> Ec's	Target group: <b>V</b>	/oltijd Regulier	
Description	Thema Operational management in Indus	stry			
Competences	-				
Target group	Supporting the theme Operational Management by facilitating consultation between students and to connect with company supervisors and supervising lecturers.				
Educational content	nt Guest lectures, team building				
Teaching methods	Interactive training and presentations				
Teaching aids	Not specified, depending on activities				
Supervisory activity	Consultation and coaching				
Sequentiality					
Level	Gevorderd (Advanced)				
Grading domain	Not achieved - achieved				
Assesment	Sub assessment	Gradingdomain	Weight	Caesura	
	P1Thema OMI	Not achieved - achieved	1	Higher or equal to 5.5	
Reading list					
Practical actions	Practical skills lessons				



EXCHANGE PROGRAMME PROCESS OPTIMIZATION 2020

	۵	Description of the edu	cational unit		
Course code:	EDCM.19	Credits:	<b>4</b> Ec's	Target group:	Voltijd Regulier
Description	Change Management				
Competences	-				
Target group	<ul> <li>Objectives:</li> <li>To gain an insight into the human capital.</li> <li>To gain useful insights and implement change profess</li> <li>To develop leadership in complement change profess</li> </ul>	e nature and complexity d courses of actions tha sionally change processes	of organisationa t will allow the s	al change and its ef tudent to design ar	ffect on nd
Educational content	<ol> <li>Importance of organisation         -organisations in a dynamic w         -why change is so difficult</li> <li>The different ways of think</li> <li>The main elements of planu         - Diagnosis         - Change strategy         - The interventions         - Communication         - Sense making         - Steering</li> </ol>	al change in organisatio world ing about change in org ned change:	ons: anisations		
Teaching methods	<ul> <li>lectures</li> <li>practical lessons</li> <li>individual and group assignr</li> <li>reflection and coaching</li> </ul>	nents			
Teaching aids	Smartboard				
Supervisory activity	- 9 meetings / 2 hours per me	eeting			
Sequentiality					
Level	Bachelor = NLQF 6				
Grading domain	1 t/m 10, 1 dec.				·
Assessment	Sub assessment	Grading de	omain	Weight	Caesura
	P1 Change management	1 t/m 10,	1 dec.	1	Higher or equal to 5.5
	T1 Change management	1 t/m 10,	1 dec.	1	Higher or equal to 5.5
Reading list	Caluwé, L. , Vermaak, H. (20 Sage Publications, INc	03). Learning to change	e. A guide for org	ganization Change	agents Thousand Oaks:
Practical actions					

Description of the educational unit					
Course code:	EDLQRM.18.V.01 Cre	dits: <b>4</b> Ec's	Target group: V	oltijd Regulier	
Description	Lean/QRM				
Competences	-				
Target group	In many organizations numerous improvement projects are started. The projects tie up people for considerable amounts of time on top of their normal responsibilities. Each individual project assesses a current problem within the organization as a whole. The question is, is there also improvement in the bottom-line performance of the organization after completing a project. If there is no process to address the constraint in the organization, there is also no focus which areas should be addressed. In this course you will learn to setup a process to address the constraint in the organization and increase the performance of an organization as a whole.				
Educational content	<ol> <li>Intro course</li> <li>VSM future state</li> <li>QRM basic principles</li> <li>Guest speaker (3x)</li> <li>Line balancing</li> <li>Assignment coaching</li> <li>Lego lean game</li> </ol>				
Teaching methods	Colleges				
Teaching aids	Lean game				
Supervisory activity	Individual / group coaching				
Sequentiality					
Level	Gevorderd (Advanced)				
Grading domain	1 t/m 10, 1 dec.				
Assessment	Sub assessment	Grading domain	Weight	Caesura	
	P1 Lean/QRM	1 t/m 10, 1 dec.	1	Higher or equal to 5.5	
Reading list	Rajan Suri (2010). Its About Time. : CRC Press				
Practical actions	Practical Skills lessons				

Description of the educational unit					
Course code:	EDPPO.18.V.01	Credits:	<b>12</b> Ec's	Target group:	Voltijd Regulier
Description	Project Process Optimization				
Competences	-				
Target group	The goal is to learn how to assess t improvements in a structured way strategy, management and the wor	he quality of a busi and to implement th k floor.	ness process and nese in an existir	d, using Lean / S ng organisation,	ix Sigma, to come up with taking into respect company
Educational content	al content Doing research into the quality of a business process and to find improvements in a structured way.				
Teaching methods	Students work in small project groups on an improvement project in a company.				
Teaching aids	none specific				
Supervisory activity	Coaching and intervision				
Sequentiality					
Level	Gevorderd (Advanced)				
Grading domain	1 t/m 10, 1 dec.				
Assessment	Sub assessment	Grading dor	nain	Weight	Caesura
	P1 Project Process Optimization	1 t/m 10, 1	dec.	1	Higher or equal to 5.5
Reading list					
Practical actions					

	Description of the educational unit							
Course code:	EDSIM.15.V.01	Credits:	<b>4</b> Ec's	Target group: Voltijd Regulier				
Description	Simulation							
Competences	-							
Target group	Theory							
	• To learn how to imple	ment a simulation study for	logistical purpos	es.				
	To recognize when simulation can be used as a tool for decision-making, especially for logistical problems in a manufacturing environment.							
	To be able to make simple calculations as a means of validating a simulation study. Practical							
	• To acquire knowledge of simulation as a tool for decision support.							
	To practice to be able	to use simulation while tack	ling logistical pro	oblems.				
	To learn how to work	with the simulation software	Enterprise Dyna	amics.				
	To learn how to inter	pret and analyze the results f	rom a simulation	n study.				
Educational content	Theory •							
	simulation: what, wh	y and when?						
	inside simulation soft	ware						
	simulation studies: ai	n overview						
	conceptual modelling							
	developing the conce	ptual model						
	data collection and ar	nalysis						
	model coding							
	experimentation: obt	aining accurate results						
	experimentation: sea	rching the solution space						
	implementation •							
	verification, validation Practical	n and confidence						
	• tutorial layout							
	Enterprise Dynamics	background						
	first contact with Ente	erprise Dynamics						
	model building basics							
	analyzing the results							
	playing with strategie After the introduction to l	s Enterprise Dynamics the stud	ent will perform	several case studies.				
Teaching methods	<ul><li>lectures</li><li>practical</li></ul>							
Teaching aids								
Supervisory activity	Coaching							
Sequentiality								

	Propaedeutics SED. See also	the entry requirements of	of the student s	tatute (SNS) of th	ne School of Engineering &
	Design.				
Level	Gevorderd (Advanced)				
Grading domain	1 t/m 10, 1 dec.				
Assessment	Sub assessment	Grading do	main	Weight	Caesura
	P1 Simulation	1 t/m 10, 1	dec.	1	Higher or equal to 5.5
Reading list					
Practical actions					
		Description of the edu	cational unit		
	EDSX.17.V.01	Credits:	<b>4</b> Ec's	Target group	: Voltijd Regulier
Description	Six Sigma				
Competences	-				
Target group	To use the Six Sigma method processes.	lology - Design, Measure	, Analyse, Impl	ement, Control -	as a tool for improving
Educational content	Design of Experiments, Failu	re Mode Effect Analysis.			
Teaching methods	<ul> <li>lectures (Hoor/instructied seminars (werkcolleges)</li> </ul>	colleges)			
Teaching aids	Calculator				
Supervisory activity	Coaching (mondeling)				
Sequentiality	Propaedeutics SED. See also Design.	the entry requirements o	of the student s	tatute (SNS) of th	ne School of Engineering &
Level	Gevorderd (Advanced)				
Grading domain	1 t/m 10, 1 dec.				
Assessment	Sub assessment	Grading do	main	Weight	Caesura
	T1 Six Sigma	1 t/m 10, 1	dec.	1	Higher or equal to 5.5
Reading list	Gitlow, Levine (2012). Six Sigma for Green Belts an	<i>ad Champions</i> . Upper Sad	dle River, New	Jersey, USA: Fina	ancial Times Press (Pearson)
Practical actions					

Description of the educational unit						
Course code:	EDTPO.18	Credits:	<b>2</b> Ec's	Target group:	Voltijd Regulier	
Description	Theme Process Optimization					
Competences	-					
Target group	Supporting the theme Process Optimization by facilitating consultation between students and to connect with company supervisors and supervising lecturers.					
Educational content	t Organizing excursions, guest lecturers, team building, study trip.					
Teaching methods	interactive training and presentat	ions				
Teaching aids	not specified, depending on activit	ties				
Supervisory activity	consultation and coaching					
Sequentiality						
Level	Gevorderd (Advanced)					
Grading domain	Not achieved / achieved					
Assessment	Sub assessment	Grading dom	ain	Weight	Caesura	
	P1	Not achieved	/ achieved	1	Higher or equal to 5.5	
Reading list						
Practical actions	Practical Skills lessons					

	Des	cription of the educa	tional unit		
Course code:	EDTPO.18	Credits:	<b>2</b> Ec's	Target group:	Voltijd Regulier
Description	Theme Process Optimization				
Competences	-				
Target group	Supporting the theme Process O company supervisors and superv	ptimization by facilitatir vising lecturers.	g consultation	between studen	ts and to connect with
Educational content	Organizing excursions, guest lec	turers, team building, s	tudy trip.		
Teaching methods	interactive training and presenta	itions			
Teaching aids	not specified, depending on activ	vities			
Supervisory activity	consultation and coaching				
Sequentiality					
Level	Gevorderd (Advanced)				
Grading domain	Not achieved / achieved				
Assessment	Sub assessment	Grading dom	ain	Weight	Caesura
	P1	Not achieved	/ achieved	1	Higher or equal to 5.5
Reading list					
Practical actions	Practical Skills lessons				



EXCHANGE PROGRAMME Security Engineering 2020-2021

	Description of unit of study						
Course code	ICT.KS.SECENG.V20	Credits:	<b>24</b> ec	Target gro	oup: Voltijd Regulier		
Study unit Description	Security Engineering						
Competences	-						
Target group	arget group       In Security Engineering students learn, in various phases, in collaboration with actual clients, to investigate the possibilities and solutions in cybersecurity and work on new applications using procedures, protocols, tools and technology. Conducting research, developing proof-of-concepts and/or building prototypes form a substantial part of mostprojects.         Security Engineering is one of the elective semesters of HBO-ICT. In these semesters, students learn to participate in projects in a professional working environment. This is done in multi-disciplinary teams for actual client or a real-life setting. In this way, students learn from the professional environment, as well as other disciplines in the project.         The feedback, evaluation and supervision focuses on preparing students as much as possible for the final graduation phase of the study programme.						
Educational content	<ul> <li>inducational of the Security Engineering projects can vary considerably. Examples are developing security policies for government, researching and building a proof-of-concept for a secure mobile app delivery platform for the Dutch Police or the deployment of new technology and/or new applications for students</li> <li>In Security Engineering, every project is different, which means that the learning opportunities can vary as well. It is up to the student how he/she choose to shape the semester.</li> <li>To help the students with their projects, a number of workshops can be attended. Some of them are obligatory (e,g., project management, planning), others are elective (scrum, game design etc.). The workshops are not graded individually, but are aimed to contribute to the success of the specific projects.</li> <li>Students enrolled in this minor will select two Professional Skills (3ECTS each course) from our list of elective courses (Leadership, Financial Management, 7 Habits etc.)</li> </ul>						
Teaching methods	Students work on a large project for 20 weeks. The project is done for actual client or in a real-life setting. The multi- disciplinary student teams of 3 to 5 students work on the project for 32 hours every week (Tuesday to Friday) at school or at the client's location. As part of the project there are project coaching sessions, workshops contributing to your project and regular presentations in which students share their obtained knowledge and progress. The professional skills are scheduled on Mondays. Therefore students will need to be available from Monday to Friday during this semester.						
Teaching aids	Only freely-accessible learning materials a project, this will be provided.	re being used. Whe	n specific hardw	are of softv	vare is needed for your		
Supervisory activity	Students are coached in their project grou	ips on a weekly bas	is. Workshops w	ill contribut	e to the project's needs.		
Level	Gevorderd (Advanced)						
Grading domain	1 t/m 10, 1 dec.						
Assessment	Sub assessment	Grading domain		Weight	Caesura		
	Portfolio - assessment	1 t/m 10, 1 dec.		1	Higher or equal to 5.5		
	Professional attitude	Niet voldaan t/m V	oldaan	0	Higher or equal to 5.5		
Reading list							
Practical actions	Project uitgevoerd bij externe organisatie						



EXCHANGE PROGRAMME

Web & Analytics 2020-2021

Description of unit of study					
ICT.KS.WA .V20	Credits: 24 ECTS credits	Target gro	up: Fulltime Regular		
Web and Analytics					
ompetences -					
In Web and Analytics stu web application for actua a good technical develop infrastructure, as well as have an optimal experier product owner students y you have built a new feat or not, and tweak the ap strive to realize a web ap accomplished. Web and Analytics is one students learn to particip This is done in multidisci students learn about the project. The feedback, evaluation possible for the final grad	web application for actual clients. The success of a web application does not only depend on a good technical development, but also involves carefully considered features, a good infrastructure, as well as that the web application is designed in such a way that end users have an optimal experience achieving their business goals. Together with the client's product owner students will specify the goals and requirements of the web application. Once you have built a new feature, you will measure whether the intended goals have been met or not, and tweak the application or customer journey to further improve it. The students strive to realize a web app that can be used by the client's company after the semester is accomplished. Web and Analytics is one of the elective semesters of HBO-ICT. In these semesters, students learn to participate in projects in a professional and agile working environment. This is done in multidisciplinary teams for an actual client or a real-life setting. In this way, students learn about the professional environment, as well as other disciplines in the project. The feedback, evaluation and supervision focuses on preparing students as much as possible for the final graduation phase of their study program.				
The projects and clients product (MVP) to optimiz assignments can vary co main requirement: at the previous set business go engineering, user resean other challenges. In Web and Analytics, ev can vary as well. It is up assignment is mainly cor Windesheim. To help the students with them are obligatory (e,g growth hacking, game de contribute to the success During the semester, s acquired knowledge to t innovative techniques is lectures might also be a Students enrolled in this from our list of elective c	(a) to optimizing an existing customer facing e-commerce platform. The can vary considerably regarding the subject and contents. There is only one ment: at the end of the semester there must be a working web app realizing business goals. Within the assignment there can be topics like requirement user research, legal aspects, security issues, marketing, data science and ges. Analytics, every project is different, which means that the learning opportunities well. It is up to the student how you choose to shape your semester. The smainly conducted at the client's premises and partly at the ICT Community at tudents with their projects, a number of workshops can be attended. Some of gatory (e,g., project management, planning), others are elective (Scrum, ng, game design). The workshops are not graded individually, but are aimed to the success of the concerning project. Semester, students lead knowledge-sharing sessions in which they present weldge to the rest of the class. In this way, we ensure that knowledge of ichniques is also passed on to the other teams. Company visits and guest at also be a part of this elective semester program.				
Students work on a large real-life setting. The mul for 32 hours every week As part of the project the project and regular prese progress. The professional skills ar Therefore students will n	e project for 20 weeks. The tidisciplinary student teams (Tuesday to Friday) at sch ere are project coaching se entations in which students e scheduled on Mondays. eed to be available from M	oproject is s of 3 to 5 ool or at the ssions, wo s share the onday to F	done for actual client or in a students work on the project ne client's location. rkshops contributing to your ir obtained knowledge and riday during this semester.		
Only freely-accessible lea Environment).	arning materials are being	used, see	ELO (Electronic Learning		
Students are coached in the project's needs.	their project groups on a w	veekly basi	is. Workshops will contribute to		
Gevorderd (Advanced)					
1 t/m 10, 1 dec.	I				
Sub assessment	Grading domain	Weight	Caesura		
Portfolio Assessment	1 t/m 10, 1 dec.	1	Higher or equal to 5.5		
Professional Attitude	Niet voldaan t/m Voldaan	0	Higher or equal to 5.5		
	LCT.KS.WA         V20         Web and Analytics         -         In Web and Analytics stuwes application for actuate a good technical develop infrastructure, as well as have an optimal experier product owner students of you have built a new feator not, and tweak the ap strive to realize a web ap accomplished.         Web and Analytics is one students learn to particip This is done in multidiscistudents learn about the project.         The feedback, evaluation possible for the final grad.         The projects and clients product (MVP) to optimiz assignments can vary comain requirement: at the previous set business go engineering, user researed other challenges.         In Web and Analytics, ev can vary as well. It is up assignment is mainly correct windesheim.         To help the students with them are obligatory (e,g growth hacking, game do contribute to the success During the semester, st acquired knowledge to to innovative techniques is lectures might also be a Students enrolled in this from our list of elective correct Students work on a large real-life setting. The multion 32 hours every week As part of the project the project and regular prese progress.         The professional skills ar Therefore students will in Only freely-accessible lear Environment).         Students are coached in the project's needs.         Gevorderd (Advanced)         1 t/m 10, 1 dec.         Sub assessment         Portfolio Assessment	Description of unit of study           ICT.KS.WA .v20         Credits: 24 ECTS credits           Web and Analytics         .           In Web and Analytics students (re)design, impleme web application for actual clients. The success of a a good technical development, but also involves car infrastructure, as well as that the web application is have an optimal experience achieving their business product owner students will specify the goals and rr you have built a new feature, you will measure whe or not, and tweak the application or customer journ strive to realize a web app that can be used by the accomplished.           Web and Analytics is one of the elective semesters students learn to participate in projects in a profess This is done in multidisciplinary teams for an actual students learn about the professional environment, project.           The feedback, evaluation and supervision focuses o possible for the final graduation phase of their stude The projects and clients in Web and Analytics can r product (MVP) to optimizing an existing customer fa assignments can vary considerably regarding the si main requirement: at the end of the semester therr previous set business goals. Within the assignment engineering, user research, legal aspects, security i other challenges.           In Web and Analytics, every project is different, wh can vary as well. It is up to the student how you ch assignment is mainly conducted at the client's pren Windesheim.           To help the students with their projects, a number them are obligatory (e,g., project management, pla growth hacking, game design). The workshops are contribute to the success of the concerning project.           During the semester, students lead knowledge- sacquired knowledge to the rest of the class. In t inn	Description of unit of study           ICT.KS.WA .V20         Credits: 24 ECTS credits Target gro .V20           Web and Analytics         -           In Web and Analytics students (re)design, implement and hel web application for actual clients. The success of a web applic a goot technical development, but also involves carefully con infrastructure, as well as that the web application is designed have an optimal experience achieving their business goals. To product owner students will specify the goals and requiremen you have built a new feature, you will measure whether the in or not, and tweak the application or customer journey to furth strive to realize a web app that can be used by the client's co accomplished.           Web and Analytics is one of the elective semesters of HBO-IC students learn to participate in projects in a professional and this is done in multidisciplinary teams for an actual client or students learn about the professional environment, as well as project.           The feedback, evaluation and supervision focuses on preparin possible for the final graduation phase of their study program The projects and clients in Web and Analytics can range from product (WP) to optimizing an existing customer facing e-co assignments can vary considerably regarding the subject and main requirement: at the end of the semester there must be previous set business goals. Within the assignment there can engineering, user research, legal aspects, security issues, ma other challenges.           In Web and Analytics, every project is different, which means can vary as well. It is up to the student how you choose to sh assignment is mainly conducted at the client's premises and p Windesheim.           To help the students with their projects, a number of workshot them are obligatory (e.g., p		



EXCHANGE PROGRAMME

Circular Housing 2020-2021

#### **CIRCULAR HOUSING**

	- D	Description of the edu	cational unit	-	
Course code:	BT.ECH.V18	Credits:	<b>3</b> Ec's	Target group:	Voltijd Regulier
Description	Engineering Circular Housing				
Competences	-				
Target group	Engineering of a building follo	wing the rules for circu	lar economy, con	centrated on build	lings
Educational content In this course you will learn about sustainable and circular materials, constructions and MEP-equipment and use these knowledge to develop your project.					
Teaching methods	Lectures and workshops				
Teaching aids	Personal Computer (laptop), c	calculator			
Supervisory activity	Weekly lectures by lecturers a	and external experts			
Sequentiality					
Level	Gevorderd (Advanced)				
Grading domain	1 t/m 10, 1 dec.				
Assessment	Sub assessment	Grading de	omain	Weight	Caesura
	Assignment	1 t/m 10,	1 dec.	1	Higher or equal to 5.5
Reading list					
Practical actions					

	Descrip	ption of the educat	tional unit		
Course code:	BT.KOCH.V19	Credits:	<b>1</b> Ec's	Target group: N	Voltijd Regulier
Description	Kick Off Circular Housing				
Competences	-				
Target group	<ul> <li>Introduction to each other</li> <li>Learning about each others expe</li> <li>Introduction to the main topics h</li> </ul>	ectations, skills and l nandled in the modu	learning goals le		
Educational content	Introduction lecture(s), workshop(s)	)			
Teaching methods	Lecture(s), workshop(s), self study				
Teaching aids	According to course outline				
Supervisory activity	Lecturing and coaching				
Sequentiality					
Level	Gevorderd (Advanced)				
Grading domain	1 t/m 10, 1 dec.				
Assessment	Sub assessment	Grading doma	ain	Weight	Caesura
	Assignment	1 t/m 10, 1 d	ec.	1	Higher or equal to 5.5
Reading list					
Practical actions					

Description of the educational unit					
Course code:	BT.LECH.V18 Cro	edits:	<b>3</b> Ec's	Target group: N	Voltijd Regulier
Description	Lectures & Excursions Circular Housing				
Competences	-				
Target group	et group You will improve your theoretical knowledge on the field of circular Building Principles. Students can apply the obtained knowledge in the design project of the minor.				
Educational content	During this module you get aquainted with subjects like circular construction and installation principles, the use of circular and biodgradable building materials, shadow costs, residual value and other relevant subjects on circular housing. Several of the lectures will be given bij external experts on the field of circular building. <u>Field Trip</u> As a reference and as an inspiration we will also visit several circular housing and building projects.				
Teaching methods	Lectures and Field Trips				
Teaching aids	Laptop, calculator, drawing materials, ca	mera, pen, paper			
Supervisory activity	Supervisory       Lectures         activity       Lectures will be given at school in seminars of 2 hours each by our lectors and external experts.         Field trip       The field trip will be organised by students and guided by our tutors.				
Sequentiality					
Level	Gevorderd (Advanced)				
Grading domain	1 t/m 10, 1 dec.				
Assessment	Sub assessment	Grading domain	1	Weight	Caesura
	Portfolio	1 t/m 10, 1 dec		1	Higher or equal to 5.5
Reading list					
Practical actions					

	Description of the educational unit				
Course code:	BT.PCH.V18	Credits:	<b>6</b> Ec's	Target group: Volt	ijd Regulier
Description	Project Circular Housing				
Competences	BK1 Initiate and managing				
Target group	You will learn to develop a buildi	ng by designing	g and enginee	ring based on circular	r principles
Educational content	<ul> <li>You will learn to interpretate a Pitto circular housing. You will use a</li> <li>you can doing research using</li> <li>you can design a building usi</li> <li>you can apply new insights a</li> <li>You can visualyse the (design</li> <li>You are able to make a BIM</li> <li>You are able to communicate external)</li> </ul>	rogramme of R these knowledg a method ing a method and technics in n-)solutions model and tran e clearly and co	equirements a ge to develope your project sfer data in a mprehensible	nd to develope new i a circular building. digital method with all project partne	nsight by doing research ers (internal and
Teaching methods	You will work as a project team, reality. There is a weekly superv	in which every ision by the lec	one has his ov turers.	vn role with the tasks	as there are in
Teaching aids	Computer, software (ArchiCad, S	Solibri, Enorm,	MPG)		
Supervisory activity	You will work independently at the requirements. You will take the i	ne project. The nitiative to com	re is an exterr nmunicate with	nal principal, who has n project partners and	formulated some d the lecturers.
Sequentiality					
Level	Gevorderd (Advanced)				
Grading domain	1 t/m 10, 1 dec.				
Assessment	Sub assessment	Gr	ading domain	Weight	c Caesura
	Assignment	1	t/m 10, 1 dec.	1	Higher or equal to 5.5
Reading list					
Practical actions					



**EXCHANGE PROGRAMME** 

Future Cities 2020-2021

#### **FUTURE CITIES**

	i	Description of the educat	tional unit		
Course code:	BT.KOFC.V19 credits	Credits:	1 ECTS	Target group:	Voltijd Regulier
Description	Kick Off Future Cities				
Competences	-				
Target group	<ul> <li>Introduction to each othe</li> <li>Learning about each othe</li> <li>Introduction to the main</li> </ul>	r r's expectations, skills and topics of the module Future	learning goals cities		
Educational content	Introduction lecture(s), excur	rsion(s) and workshop(s)			
Teaching methods	Lecture(s), excursion(s), wor	kshop(s), self study			
Teaching aids	According to course outline				
Supervisory activity	Lecturing and coaching				
Sequentiality					
Level	Gevorderd (Advanced)				
Grading domain	1 t/m 10, 1 dec.				
Assessment	Sub assessment	Grading doma	ain	Weight	Caesura
	Assignments	1 t/m 10, 1 d	ec.	1	Higher or equal to 5.5
Reading list	T				
Practical actions					

		Description of the educ	ational unit			
Course code:	BT.LFT.V20 <b>credits</b>	Credits:	6 ECTS	Target group:	Voltijd Regulier	
Description	Lectures & Field Trip					
Competences	-					
Target group	<ul> <li><u>Goals</u></li> <li>Extending your profess present and future citie</li> <li>You will improve your p perspective (mobility, p</li> </ul>	tional knowledge on the field es. professional knowledge abou civil engineering and build e	l of density, clin It technological nvironment).	nate change and e innovations in a b	energy transition of our road interdisciplinary	
Educational content	During this module several guest speakers, experts and specialists will give lectures regarding our (future) cities in a wide range of subjects as heat stress, water management, civil engineering, energy transition, habitability of our cities, new mobility, food production, system thinking and circular economy. <u>Field Trip</u> As a reference and as an inspiration we will go visit several sustainable projects in a European city of our choice. - You prepare the field trip and you make an excursion guide. - You go on field trip and present and reflect on this.					
Teaching methods	<ul> <li>Teaching methods</li> <li>Lectures will be given at school in 10 seminars of 2 hours each.</li> <li>The Field Trip will be organised by the students themselves. Coaching lessons for preparation will be provided.</li> </ul>					
Teaching aids	eaching aids Laptop, internet, passport, travellbag, (video) camera, good pair of shoes					
Supervisory activity	<u>Lectures</u> Lectures will be given by s <u>Field trip</u> Coaching for the field trip a	everal external professional and preparations will be pro	s on different fie vided by the tut	elds of interest. cors from Windesh	neim.	
Sequentiality						
Level	Gevorderd (Advanced)					
Grading domain	1 t/m 10, 1 dec.			1		
Assessment	Sub assessment	Gradingdon	nain	Weight	Caesura	
	Magazine	1 t/m 10, 1	dec.	1	Higher or equal to 5.5	

Reading list	(). The costs for the field trip are not included in this minor Students should take into account that the costs will range between 300 and 400 euro If these costs are insumountable an alternative assignment can be provided. :
Practical actions	

Description of the educational unit					
Course code:	BT.PFC.V19 credits	Credi	ts: 6 ECTS	Target group:	Voltijd Regulier
Description	Project Future Cities				
Competences	-				
Target group	Cooperation and co-makin In this project the student This project will give you t Thinking out of the box an In this course you are goir A lot of creativity is neede multidisciplinary synergy. Extending your professionary You will improve your know	g in a multidiscip is learning to wo ools to communio <u>d being creative</u> ng to generate ide d. We are learnin al knowledge abo wledge about sus	linary international teams rk together in multidisciplir cate and cooperate with oth eas / scenario's for a Future g you to get used to think i ut sustainable cities tainable cities and new tech	hary teams. her professionals e City which is not in new perspective hnological innovat	yet even there. es and to reach for ions in your field of
Educational content	You will work in an interdis district in 2050. - In the first part of the pri- In the second part of the 2050 The project is connect Final products will be discu	sciplinary team of oject you will ana project you will y cted with several ussed with them.	f international students on a lyse and research future sc work on an integral design f local stakeholders.	an integral design enario's on specifi for a future city dis	project for a future city to theme's and issues. strict in
leaching methods	You will be working at sch different tutors, each with	ool in a workshop it's own field of e	e-like environment. The clase expertise. Multiple didactic	ss will be mentore methods will be us	d and coached by 3 sed.
Teaching aids	Laptop, internet, mobile p	hone or camera,	sketching paper, drawing m	naterials	
Supervisory activity	We start with an introduct project. A great amount of	ion of the project f self study is exp	. From then you work in sn ected. Coaching will be pro	nall groups of 3-4 vided once a wee	students on the k during the project.
Sequentiality					
Level	Gevorderd (Advanced)				
Grading domain	1 t/m 10, 1 dec.				
Assessment	Sub assessment		Grading domain	Weight	Caesura
	Review Part One		1 t/m 10, 1 dec.	3	Higher or equal to 5.5
	Review Part Two		1 t/m 10, 1 dec.	7	Higher or equal to 5.5
Reading list					
Practical actions					
Course code:	BT.PRS.V13 credits	<b>Description</b> Cre	of the educational unit dits: <b>2</b> ECTS	Target group	: Voltijd
Description	Professional Skills				
Competences	-				
Target group	An understanding of the to analyse different situation of the total situation of the situat	communication in ations and use ad	n English, including intervie equate proficiency.	ewing and consulta	ancy skills . The ability
Educational content	An understanding of the to analyse different situation to be a set of the total situation of the situation o	communication in ations and use ad	n English, including intervie equate proficiency.	ewing and consulta	ancy skills . The ability
Teaching methods	workshops				
Teaching aids	None				
Supervisory activity					
Sequentiality	English from the first 2 y	ears of the Bach	elor study Civil Engineering	. Or English certif	icate at B1 level.
Level	Gevorderd (Advanced)				
Grading domain	1 t/m 10, 1 dec.				
Assessment	Sub assessment		Grading domain	Weight	Caesura
	Assignments		Not achieved / Achieved	0	Higher or equal to 5.5
	Oral Exam		1 t/m 10 1 dec	1	Higher or equal to 5.5
Reading list				-	
Reduing list					

Practical actions
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EXCHANGE PROGRAMME

Supply Chain Engineering 2020-2021

	Description of the educational unit				
Course code:	EDTSCE.19	Credits: 2	Ec's	Target group	: Fulltime Regular
Description	Thema Supply Chain Engineering				
Competences	-				
Target group	Supporting the theme Supply Chain Engineering by facilitating consultation between students and to connect with company supervisors and supervising lecturers.				
Educational content	Guest lectures, team building				
Teaching methods	Interactive training and presentation	S			
Teaching aids	Not specified, depending on activities	5			
Supervisory activity	Consultation and coaching				
Sequence					
Level	Gevorderd (Advanced)				
Grading domain	Not achieved / achieved				
Assessment	Sub assessment	Grading domain		Weight	Caesura
	P1 Thema SCE	Not achieved / ach	ieved	1	Higher or equal to 5.5
Reading list					
Practical actions	Practical skills modules				

	Desc	ription of the ed	ucational unit			
Course code:	EDPSCE.19	Credits:	<b>12</b> Ec's	Target grou	o: Fulltime Regular	
Description	Project Supply Chain Engineering					
Competences	-					
Target group	See study guide					
Educational content	This project is executed within a company or external organization. The language is either Dutch or English depending upon the guest organization. The project will normally be carried out in small groups. Individual assignments are possible in relevant situations.					
Teaching methods	Assignments for an external organ	nisation.				
Teaching aids	No special tools needed					
Supervisory activity	Coaching					
Sequence						
Level	Gevorderd (Advanced)					
Grading domain	1 t/m 10, 1 dec.					
Assessment	Sub assessment	Grading d	lomain	Weight	Caesura	
	P1 Supply Chain Engineering	1 t/m 10,	1 dec.	1	Higher or equal to 5.5	
Reading list						
Practical actions	Project to carry out with an extern	nal organisation				

		Description	of the educati	onal unit		
Course code:	EDSCP.19	Cre	dits:	<b>4</b> Ec's	Target gro	oup: Fulltime Regular
Description	SC Planning					
Competences	-					
Target group	This course gets you up to speed in Warehousing and Fulfilment and Demand and Supply Integration. We propose an excellent stepping stone for students relatively new to the subject, while creating a challenging atmosphere for students with a background in Supply Chain Management. We do this through a cutting edge learning experience, making use of blended learning and an adaptive learning environment. Introduction to Supply Chain Engineering propels you for a great learning experience in-company and in-university.					
Educational content	See study guide					
Teaching methods	- College					
Teaching aids	See study guide					
Supervisory activity	See study guide					
Sequence						
Level	Gevorderd (Advanced)					
Grading domain	1 t/m 10, 1 dec.					
Assessment	Sub assessment		Grading domai	n	Weight	Caesura
	T1 SC Planning		1 t/m 10, 1 de	с.	1	Higher or equal to 5.5
Reading list						
Practical actions						

		Description of	the educational unit	:		
Course code:	EDCSK.19	Credits:		4 Ec's	Target gro	oup: Fulltime Regular
Description	Consultancy Skill	S				
Competences	-					
Target group	This course helps challenge you to you to examine t as a consultant.	s you to develop effe examine the assum he way you commur	ective consultancy and ptions and interpretation in order to become to be the second s	communicat ons you have me more effe	ion skills. Tl e about you ective in get	he aim of this course is to rself and others. It helps ting your message across
Educational content	See study guide					
Teaching methods	Coaching					
Teaching aids	See study guide					
Supervisory activity	See study guide					
Sequence						
Level	Gevorderd (Adva	inced)				
Grading domain	1 t/m 10, 1 dec.					
Assessment	Sub assessment		Grading domain		Weight	Caesura
	P1 Consultancy S	skills Portfolio	1 t/m 10, 1 dec.		1	Higher or equal to 5.5
	P2 Consultancy S	kills Assessment	1 t/m 10, 1 dec.		1	Higher or equal to 5.5
Reading list						
Practical actions						

		Description of t	he educational unit	t			
Course code:	EDDSI.19	Credits:		<b>4</b> Ec's	Target gro	oup: Fulltime Regular	
Description	Demand & Sup	ply Integration					
Competences	-						
Target group	After finishing t Operations Plar replenishment i research result	cer finishing this course you will know how to integrate the Demand and Supply processes, like Sales and verations Planning (S&OP), in an organization. You will show a good understanding of forecasting and plenishment in a real life challenging business case. Finally you will be able to successfully present the search results as a convincing recommendation to the business client.					
Educational content	See study guide	e					
Teaching methods	Lectures & Case	e					
Teaching aids	See study guide	e					
Supervisory activity	See study guide	9					
Sequence							
Level	Gevorderd (Adv	/anced)					
Grading domain	1 t/m 10, 1 dec						
Assessment	Sub assessmen	t	Grading domain		Weight	Caesura	
	T1 Demand and	Supply Integration	1 t/m 10, 1 dec.		1	Higher or equal to 5.5	
Reading list							
Practical actions							

	Description of the education	onal unit						
Course code:	EDWHF.19	Credits:	<b>4</b> Ec's	Target gro	oup: Fulltime Regular			
Description	Warehousing & Fulfilment							
Competences	-							
Target group	This course helps you to under relations and impact they hav of Fulfilment in e- business, t and network architecture. So technical and business case le commerce offers.	his course helps you to understand the latest developments of Warehousing and Fulfilment and the elations and impact they have on the Supply Chain, in concept and calculation. You will understand the role Fulfilment in e- business, the ICT relations in a formal business environment for the software, hardware and network architecture. So in the end you will be able to (re-)design the Supply Chain on a conceptual, echnical and business case level. For example to benefit from the rapidly increasing opportunities E- ommerce offers.						
Educational content	See study guide							
Teaching methods	Lectures & Case							
Teaching aids	See study guide							
Supervisory activity	See study guide							
Sequence Sequence								
Level	Gevorderd (Advanced)							
Grading domain	1 t/m 10, 1 dec.							
Assessment	Sub assessment	Grading do	main	Weight	Caesura			
	P1 Case study	1 t/m 10, 1	dec.	1	Higher or equal to 5.5			
Reading list	(). See study guide. :							
Practical actions								



**EXCHANGE PROGRAMME** 

Sustainable Structures 2020-2021

#### SUSTAINABLE STRUCTURES

	Des	scription of the educational unit		
Course code:	BT.COMST.V14	Credits: 2 ECTS credits	Target group:	Fulltime Regular
Description	Composite structures			
Competences	-			
Target group	The student has the knowledge (strength, stiffness and stability	and skills to design a structure in co ),and the knowledge hoe to constru	omposite of limited ct building environr	scope and complexity nent structures in composite.
Educational content	Design and construct of compos	ite structures.		
Teaching methods	Lectures, Workshop visit, self st	udy		
Teaching aids	Calculator, Computer			
Supervisory activity	The lecturer provides hearing &	excersing lectures.		
Sequentiality	Applied Mechanics Stuctural design (Strength, ULS) timber structures Mathematics Mechanics Civil structural materials	, Stifness SLS, facors) Staal-, beton	- en houtconstructi	es / Steel, concrete and
Level	Bachelor = NLQF 6			
Grading domain	1 t/m 10, 1 dec.			
Assessment	Sub assessment	Grading domain	Weight	Caesura
	Exam	1 t/m 10, 1 dec.	1	Higher or equal to 5.5
Reading list	(). CUR 96 Vezelversterkte Kunstst	offen in civiele draagconstructies / I	Fiber Reinforced Pol	lymers in civil structures :
Practical actions				
	Der			
Course code:			Targot group	Fulltime Peqular
Course code.		creats. 3 ECTS creats	Target group.	Functime Regular
Description	Project Sustainable Structures			
Competences	-			
Target group	To design a steel/timber/FRP str	ructure according to applicable code	S.	
Educational content	During the project course, you v students. You will exercise drafstmen and on a structural project.	vill work in a team on a realistic, mu structural engineering skills. This m	ulitdisciplinairy projented as that you will here and that you will here as that you will here as the second se	ect together with other be gaining work experience
Teaching methods	Working in multi-disciplinairy tea and structural drawings.	ams on the following product: basis	of design, variant s	study, structural calculations
Teaching aids	Computersoftware (office, Delta Literature depending on the pro- Laptop & Calculator.	res Dseries, FEM, CAD) ject.		
Supervisory activity	You will work with other student determined).	s in a team. Teachers are available	for consultation on	project day (to be
Sequentiality				
Level	Gevorderd (Advanced)			
Grading domain	1 t/m 10, 1 dec.			
Assessment	Sub assessment	Grading domain	Weight	Caesura
	Assignment	1 t/m 10, 1 dec.	1	Higher or equal to 5.5
Reading list				
Practical actions				

	Description	of the educational unit			
Course code:	BT.SE.V18 Cre	dits: <b>3</b> ECTS credits	Target grou	up: Fulltime Regular	
Description	Sustainability in Engineering				
Competences	-				
Target group	Learn to asses environmental impact of s	tructures.			
Educational content	Compare environmental impact of at leas	t 3 variants in your structural p	project.		
Teaching methods	Working in project team on `Environmen	tal impact comparison ' report.			
Teaching aids	laptop Ecocost database Vogtländer J, <u>http://www.ecocostsvalue.com/</u> TUDelft				
Supervisory activity	You will work with other students in your of the project day (to be determined).	project team. Teacher is availa	able for cons	ultation in the afternoon	
Sequentiality					
Level	Gevorderd (Advanced)				
Grading domain	1 t/m 10, 1 dec.				
Assessment	Sub assessment	Grading domain	Weight	Caesura	
	Assignment	1 t/m 10, 1 dec.	1	Higher or equal to 5.5	
Reading list					
Practical actions					

	Descri	ption of the educational uni	it	
Course code:	BT.MECBOW2.V18	Credits: 3 ECTS credits	Target gro	oup: Fulltime Regular
Description	Advanced Applied Mechanics			
Competences	-			
Target group	In deze onderwijseenheid wordt de constructie van bouwwerken voor w	theoretische onderbouwing aa vat betreft sterkte, stijfheid en	ngereikt voor het stabiliteit.	: beoordelen van de
Educational content	<ul> <li>Extension stress by double bene</li> <li>Extension stress by extension for</li> <li>Shear stress by shear force</li> <li>Shear stress by torsion combination</li> <li>Statically in-determined beams</li> <li>Statically in-determined framework</li> </ul>	ding orce and combination of stress ations of stresses vorks	es	
Teaching methods	Hoorcollege, Werkcollege, Zelfstudi	e		
Teaching aids	Laptop & Calculator.			
Supervisory activity	Lectures, self-study			
Sequentiality				
Level	Advanced			
Grading domain	1 t/m 10, 1 dec.			
Assessment	Sub assessment	Grading domain	Weight	Caesura
	Exam	1 t/m 10, 1 dec.	1	Higher or equal to 5.5
Reading list				
Practical actions				



**EXCHANGE PROGRAMME** 

Water Management 2020-2021

		Description of the educational unit	:				
Course code:	BT.AWM.V19	Credits: <b>3</b> ECTS credits	Target group:	Fulltime Regular			
Description	Advanced Water managem	ent: River modelling					
Competences	-						
Target group	Computational modelling is you should be able to unde setting up of a hydraulic co Implementing knowled Implementing knowled Analyzing river hydrogr	Computational modelling is becoming a core part in solving water management issues. After finishing this course ou should be able to understand and apply the basic principles regarding soil water and surface water in the etting up of a hydraulic computational model. The student will be Implementing knowledge on soil water in a basin runoff model Implementing knowledge on river flows in a 1D model Analyzing river hydrographs to determine river discharges and water levels					
Educational content	The water cycle determines water in various phases an Thorough understanding of physical properties of non management and related in have followed earlier during atmospheric water and gro water and you will be work	s to a great extent the possibilities for liv d stages enables for instance plant grow f the physical principles of hydrology - th oceanic water on and below the earth's s novations to ensure our livelihoods. This g your bachelor study "Civil Engineering" undwater were discussed. This course de ting with this knowledge in a computation	ve on this planet. Tra with or river flow and he study of the occur surface – is necessar s course builds on the ". In other courses the eals with the topics of nal 1D flow model.	ansport and conveyance of influences our climate. rrence, movement, and ry for sustainable water e water-related courses you he water balance, of soil water and surface			
Teaching methods	The weekly courses will be students will be building an	built up by an introductionary part (theonormalised of the computational river model.	ory and concepts) ar	nd a practical part in which			
Teaching aids	<ul><li>Selected computational</li><li>Own laptop</li></ul>	l modelling software					
Supervisory activity	Teaching and coaching						
Sequentiality							
Level	Gevorderd (Advanced)						
Grading domain	1 t/m 10, 1 dec.						
Assessment	Sub assessment	Grading domain	Weight	Caesura			
	Modelling Exercise	1 t/m 10, 1 dec.	1	Higher or equal to 5.5			
Reading list							
Practical actions	Practical skills lessons						

	Description	of the educational unit		
Course code:	BT.HYD.V20 Cre	dits: <b>3</b> ECTS credits	Target group: <b>F</b>	ulltime Regular
Description	Hydrology and Geohydrology			
Competences	-			
Target group	This course is about the concepts of phys the principles of these subjects. Exploring water and groundwater. Students learn h subject material is trained by solving a la to Physical Hydrology, Martin R. Hendriks	ical hydrology and geohydrolo the principal rules that gover ow to evaluate specific situati rge number of hydrological ex ]	ogy. The course pro rn the flow of atmo ons by using mode camples and exerci	ovides a solid grounding in ospheric water, surface elling techniques. The ses [Source: Introduction
Educational content	Introduction in Hydrology; hydrological control of surface water flow and groundwater flow	ycle; drainage basin; water ba ow (steady state, 1D en 2D).	alance; global hydr	ology; Basic applications
Teaching methods	Tutorials and lectures, power points			
Teaching aids	<ul> <li>Reader: Introduction to Physical Hydr</li> <li>Lecture slides</li> </ul>	rology, Martin R. Hendriks		
Supervisory activity	Lectures, Assistance and guidance			
Sequentiality				
Level	Gevorderd (Advanced)			
Grading domain	1 t/m 10, 1 dec.			
Assessment	Sub assessment	Grading domain	Weight	Caesura
	Assignment	1 t/m 10, 1 dec.	6	Higher or equal to 5.5
	Exam	1 t/m 10, 1 dec.	4	Higher or equal to 5.5
Reading list	Martin R. Hendriks (2010). Introduction t	to Physical Hydrology. : Oxfor	d University Press	
Practical actions				
	Description	of the educational unit	_	
Course code:	BT.KOWM.V19 Cre	dits: 1 ECTS credits	Target group: <b>F</b>	ulltime Regular
Description	Kick Off Water Management			
Competences	-			
Target group	The student has an overview of major top and the relations between the topics.	pics regarding water managen	nent and knows the	e structure of the program
Educational content	Introduction in the field of international w	ater management through lea	ctures and assignm	nents.
Teaching methods	Lectures and assignments, presentations,	, serious game.	5	
Teaching aids	None, all materials will be provided via th	e ELO		
Supervisory activity	(guest-) Lectures will be given and stude guided by the teacher.	nts are asked to make assignr	ments and to partion	cipate in a serious game
Sequentiality				
Level	Gevorderd (Advanced)			
Grading domain	Not achieved / Achieved			
Assessment	Sub assessment	Grading domain	Weight	Caesura
	Assignments	Not achieved / achieved	1	Higher or equal to 5.5
Reading list				
Practical actions				

		Description of the educational unit				
Course code:	BT.PWM.V20	Credits: 4 ECTS credits	Target group:	Fulltime Regular		
Description	Project Water management					
Competences	-					
Target group	The student is able to go thr a final result. During the des	ough the design process successfully, wit sign process the student shows profession	h a professional de al skills in commu	esign- or advisory report as nication and collaboration.		
Educational content	Students work in teams on a project the different steps of collect information, brainston on your design. During the project the stude intern in the project group a professional from the organi Further details can be found	Students work in teams on a water related project within a specific organizational context. Within the water related project the different steps of the design process are taken. The design process concerns: Define the problem, collect information, brainstorm and analyse, develop solutions, present your ideas and receive feedback, improve on your design. During the project the students have to develop and improve their collaborative and communicative skills, both intern in the project group as extern to the professional organization and Windesheim. The project is coached by a professional from the organization and by a lecturer/coach from Windesheim.				
Teaching methods	During the Water project, yo that you will be gaining work organization. During the period there will	ou will work in a team on a complex project experience on a project concerning hydr be an introduction to a topic, feedback set	ct in an organizatio aulics or water ma ssions and discuss	onal context. This means anagement in an ions and peer interaction.		
Teaching aids	Use of literature, computers, the project.	, mobile phones, tablets (any devises usir	ng internet) and m	aybe programs needed for		
Supervisory activity	Coaching and feedback by a	coach and assistance and guidance from	peer students.			
Sequentiality						
Level	Gevorderd (Advanced)					
Grading domain	1 t/m 10, 1 dec.					
Assessment	Sub assessment	Grading domain	Weight	Caesura		
	Assignments	1 t/m 10, 1 dec.	1	Higher or equal to 5.5		
Reading list		· · · · · · · · · · · · · · · · · · ·				
Practical actions	Cooperative group work at V	Vindesheim with external clients				
		Description of the educational unit				
Course code:	BT.REP.V17	Credits: <b>2</b> ECTS credits	Target group:	Fulltime Regular		
Description	Research Project					
Competences	-					
Target group	Develop research skills prepare for final thesis proje	ect				
Educational content	Research project in the field	of thesis subject				
Teaching methods	research project					
Teaching aids	-					
Supervisory activity	assistance					
Sequentiality	Research methods					
Level	Gevorderd (Advanced)					
Grading domain	1 t/m 10, 1 dec.					
Assessment	Sub assessment	Grading domain	Weight	Caesura		
	Research Plan	1 t/m 10, 1 dec.	1	Higher or equal to 5.5		
Reading list						
Practical actions						

Description of the educational unit						
Course code: EN	-IN-WNID.XX.01	Credits: 2 ECTS cr	edits	Target group: Ge	een specifiek	ce doelgroep
Description	Introduction module of Windesheim and the Netherlands in an international context.					
Competences	-					
Target group	<ul> <li>Objectives</li> <li>To learn about organisational structures in theNetherlands;</li> <li>To learn about specific national features of the Netherlands;</li> <li>To learn about aspects of Dutch cuisine;</li> <li>To learn more about typical aspects of Dutch identity;</li> <li>To learn more about specific aspects of Dutch cultural/historical heritage;</li> <li>To get an international perspective on above mentioned themes by comparing them with student's home country (and learn -as a side effect- as well about these themes in other (European) countries).</li> </ul>					
Educational content	<ul> <li>Educational content:</li> <li>Organisational structures in the Netherlands: educational system, infrastrucure of the city centre and municipal political system;</li> <li>Specific national features: language, folklore and geography;</li> <li>Aspects of Dutch cuisine: habits on dinner time, traditional dishes/preferences and cultural and historical influences on the cuisine;</li> <li>1 typical aspect of the Dutch identity (depending on the season): 'Sinterklaas' or ice skating;</li> <li>Specific aspects of Dutch/historical heritage: visiting places of historic interest and related background information.</li> </ul>					
Teaching methods	Student's activities Be present at and take part in: Presentations of guest speakers; Excursions; Meetings providing background information related to the topics of the activities; Group discussions.					
Teaching aids	Educational support: <ul> <li>Module description on blackboard;</li> <li>Information to be found on internet;</li> <li>Suggestion of book.</li> </ul>					
Supervisory activity	<ul> <li>Activities of the International Office and lecturers:</li> <li>Organising presentations of guest speakers;</li> <li>Leading excursions;</li> <li>Providing specific information related to the topics of the activities;</li> <li>Organising group discussions and sharing of knowledge about the themes mentioned in the educational information.</li> <li>Note: This module is a joint effort of our International Office, responsible for the activities as such, and lecturers, responsible for the educational part of this module, which is reviewing the written reports.</li> </ul>					
Sequentiality	<ul> <li>Pre-condition for entering the module</li> <li>Knowledge of English</li> <li>Student is able to understand explanations;</li> <li>Student is able to take part in group discussions;</li> <li>Student is able to write a report.</li> </ul>					
Level	Basis = NLQF 4+					
Grading domain	1 t/m 10, 1 dec.					
Assessment	Sub assessment		Grading domain	n W	eight	Caesura
	Portfolio		1 t/m 10, 1 dec	c. 10	0	Higher or equal to 5.5
Reading list	Martijn de Rooi (2005). The Dutch I presume Weesp: Nilsson & Lamm					
Practical actions	Practical skills lessons					