## **Course Catalogue Engineering and ICT**

## **EXCHANGE PROGRAMME**

Circular Housing 2024-2025



Course summ	nary			
VOE Code: BT.KO	CH.V19	ECTS credits:	1	Level: Bachelor's degree (full-time)
Course Title	Kick-Off Circular Housing			
Туре	Compulsory			
Learning				
competences				
Learning	<ul> <li>Introduction to ea</li> </ul>	ach other		
outcomes	<ul> <li>Learning about ea</li> </ul>	ach others expe	ctations, skills	s and learning goals
	<ul> <li>Introduction to the</li> </ul>	e main topics h	andled in the r	module
Course content	<ul> <li>Introduction lecture</li> </ul>	ıre(s)		
	<ul><li>Workshop(s)</li></ul>			
Planned learning	Lecture(s)			
activities and	<ul><li>Workshop(s)</li></ul>			
teaching methods	Self study			
Recommended or	According to course outling	ne		
required reading				
and other learning				
resources / tools				
Prerequisites and				experience in Architecture,
co-requisites			ngineering or	a similar course, and English-
	language skills at B2 level	l		
Level	Advanced			
Grading scale	1 up to 10, 1 dec.			
Assessment	Type of assessment		Grade	Criteria
methods and			weightii	·
criteria	Assignment		1	Higher or equal to 5.5
Language of	English			
Instruction	F 1 ( ) 1 1 1 1	1 .		C 1/
Name of lecturer	For information about the	lecturers you c	an contact Ee	tje Kroesen
Mode of delivery	Face to face			

Course summ	nary
VOE Code: BT.LM	CH.v21 ECTS credits: 2 Level: Bachelor's degree (full-time)
Course Title	Lifecycle and Maintenance
Туре	Compulsory
Learning	BK1 Initiating and directing
competences	BK5 Manage
Learning	Understanding and developing insight in the lifecycle of a building with a focus on the
outcomes	design phase (Total Cost of Ownership) and the phase of maintenance (Multi-year
	Maintenance Plan) in the specific context the circular economy. Next to that the student
	learns how to make the required documents that are being used in these two phases.
Course content	Knowledge about, and learning how to make, a Total Cost of Ownership and a Muli-year
	Maintenance Plan in the context of the circular economy.
	Knowledge and skills about the use of building materials and energy use in the context of
	the circular economy.
Planned learning	Lectures and workshops by lecturers and external experts.
activities and	You work in a project team on an assignment.
teaching methods	
Recommended or	
required reading	
and other learning	
resources / tools	
Prerequisites and	You are required to have two years of Bachelor's study experience in Architecture,
co-requisites	Architectural Technology, Construction Engineering or a similar course, and English- language skills at B2 level.
Level	Advanced

Grading scale	1 up to 10, 1 dec.		
Assessment methods and	Type of assessment	Grade weighting	Criteria
criteria	Assignment LMCH	1	Higher or equal to 5.5
Language of Instruction	English		
Name of lecturer	For information about the lecturers you can co	ontact Eefje Kroe	sen
Mode of delivery	Face to face		

Course summ	nary		
VOE Code: BT.PC	H.V18 ECTS credits:	6 Le	evel: Bachelor's degree (full-time)
Course Title	Project Circular Housing		
Туре	Compulsory		
Learning	BK1 Initiating and directing		
competences			
Learning	You will learn to develope a building by de	signing en engine	eering based on circular
outcomes	principles.		
Course content	You will learn to interpretate a Programme doing research to circular housing. You w building.  • you can doing research using a m	ill use these knov	
	<ul> <li>you can doing research using a m</li> <li>you can design a building using a</li> </ul>		
	<ul> <li>you can design a building using a</li> <li>you can apply new insights and te</li> </ul>		oiect
	<ul> <li>You can visualyse the (design-)so</li> </ul>	• •	oject
	You are able to make a BIMmodel		a in a digital method
	You are able to communicate clear		•
	(internal and external)	and compren	ensible with all projectpartners
Planned learning	You will work as a projectteam, in	which everyone	has his own role with the tasks
activities and	as there are in reality.	•	
teaching methods	<ul> <li>There is a weekly supervision by t</li> </ul>	he lecturers.	
Recommended or	Computer software		
required reading	<ul> <li>ArchiCad</li> </ul>		
and other learning	Solibri		
resources / tools	Enorm		
	• MPG		
Prerequisites and	You are required to have two years of Bac	helor's study exp	erience in Architecture,
co-requisites	Architectural Technology, Construction Er	igineering or a sii	milar course, and English-
	language skills at B2 level.		
Level	Advanced		
Grading scale	1 up to 10, 1 dec.		
Assessment	Type of assessment	Grade	Criteria
methods and		weighting	
criteria	Assignment	1	Higher or equal to 5.5
Language of Instruction	English		
Name of lecturer	For information about the lecturers you ca	ın contact Eefje k	Kroesen
Mode of delivery	Face to face		

Course summ	nary
VOE Code: BT.LEC	CH.V18 ECTS credits: 3 Level: Bachelor's degree (full-time)
Course Title	Lectures and Excursions
Туре	Compulsory
Learning	
competences	
Learning	Obtaining knowledge on the field of Circular Building Principles.
outcomes	

	You will improve your theoretical knowledge of	on the field of circ	ular materials and circular
	building principles.		
	Students can apply the obtained knowledge in	n the design proje	ct of the minor.
Course content	Lectures on Circular Building		
	<ul> <li>During this module you get aquintant installation priciples, the use of circul shadow costs, residual value and other several of the lectures will be given be building.</li> </ul>	ar and biodgrada er relevant subjec	ble buildingmaterials, ets on circular housing.
	Field Trip		
	As a reference and as an inspiration we will al	so visit several c	ircular housing and building
	projects.		
Planned learning	Lectures		
activities and	Field trips		
teaching methods	·		
Recommended or	<ul> <li>Laptop</li> </ul>		
required reading	Calculator		
and other learning	<ul> <li>Drawing materials</li> </ul>		
resources / tools	Camera		
	Pen		
	Paper		
Prerequisites and	You are required to have two years of Bachelo		
co-requisites	Architectural Technology, Construction Engine	eering or a simila	r course, and English-
_	language skills at B2 level.		
Level	Advanced		
Grading scale	1 up to 10, 1 dec.		
Assessment	Type of assessment	Grade	Criteria
methods and		weighting	
criteria	Portfolio	1	Higher or equal to 5.5
Language of	English		
Instruction	For information of and the death man		
Name of lecturer	For information about the lecturers you can co	ontact Eetje Kroe	sen
Mode of delivery	Face to face		

Course summ	nary
VOE Code: BT.ECH	H.V18 ECTS credits: 3 Level: Bachelor's degree (full-time)
Course Title	Engineering Circular Housing
Туре	Compulsory
Learning	
competences	
Learning	Engineering of a building following the rules for circular economy, concentrated on
outcomes	buildings.
Course content	In this course you will learn about sustainable and circular materials, constructions and
	MEP-equipment and use these knowledge to develope your project.
Planned learning	Lectures
activities and	<ul> <li>Workshops</li> </ul>
teaching methods	
Recommended or	Personal computer (laptop)
required reading	Calculator
and other learning	
resources / tools	
Prerequisites and	You are required to have two years of Bachelor's study experience in Architecture,
co-requisites	Architectural Technology, Construction Engineering or a similar course, and English-
	language skills at B2 level.
Level	Advanced
Grading scale	1 up to 10, 1 dec.

Assessment methods and	Type of assessment	Grade weighting	Criteria
criteria	Assignment	1	Higher or equal to 5.5
Language of Instruction	English		
Name of lecturer	For information about the lecturers you can contact Eefje Kroesen		
Mode of delivery	Face to face	-	