

Course Catalogue Engineering and ICT

EXCHANGE PROGRAMME

Circular Housing 2023-2024

University of
Applied Sciences

Windesheim



Course summary			
VOE Code: BT.PCH.V18		ECTS credits: 6	
Level: Bachelor's degree (full-time)			
Course Title	Project Circular Housing		
Type	Compulsory		
Learning competences			
Learning outcomes	You will learn to develop a building by designing and engineering based on circular principles		
Course content	<p>You will learn to interpretate a Programme of Requirements and to develop new insight by doing research to circular housing. You will use these knowledge to develop a circular building.</p> <ul style="list-style-type: none"> • you can doing research using a method • you can design a building using a method • you can apply new insights and technics in your project • You can visualise the (design-)solutions • You are able to make a BIM model and transfer data in a digital method • You are able to communicate clearly and comprehensible with all project partners (internal and external) 		
Planned learning activities and teaching methods	<p>You will work as a project team, in which everyone has his own role with the tasks as there are in reality.</p> <p>There is a weekly supervision by the lecturers.</p>		
Recommended or required reading and other learning resources / tools	Computer, software (ArchiCad, Solibri, Enorm, MPG)		
Prerequisites and co-requisites	You are required to have two years of Bachelor's study experience in Architecture, Architectural Technology, Construction Engineering or a similar course, and English-language skills at B2 level.		
Level	Bachelor		
Grading scale	1 up to 10, 1 dec.		
Assessment methods and criteria	Type of assessment	Grade weighting	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	You will work independently at the project. There is an external principal, who has formulated some requirements. You will take the initiative to communicate with project partners and the lecturers.		

Course summary			
VOE Code: BT.KOCH.V19		ECTS credits: 1	
Level: Bachelor's degree (full-time)			
Course Title	Kick Off Circular Housing		
Type	Compulsory		
Learning competences			
Learning outcomes	<ul style="list-style-type: none"> • Introduction to each other • Learning about each others expectations, skills and learning goals • Introduction to the main topics handled in the module 		
Course content	Introduction lecture(s), workshop(s)		
Planned learning activities and teaching methods	Lecture(s), workshop(s), self study		
Recommended or required reading and			

other learning resources / tools			
Prerequisites and co-requisites			
Level	Bachelor		
Grading scale	1 up to 10, 1 dec.		
Assessment methods and criteria	Type of assessment	Grade weighting	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	Lecturing and coaching		

Course summary			
VOE Code: BT.LECH.V18 ECTS credits: 3 Level: Bachelor's degree (full-time)			
Course Title	Lectures & Excursions Circular Housing		
Type	Compulsory		
Learning competences			
Learning outcomes	Obtaining knowledge on the field of Circular Building Principles. You will improve your theoretical knowledge on the field of circular materials and circular building principles. Students can apply the obtained knowledge in the design project of the minor.		
Course content	<p>Lectures on Circular Building During this module you get acquainted with subjects like circular construction and installation principles, the use of circular and biodegradable building materials, shadow costs, residual value and other relevant subjects on circular housing. Several of the lectures will be given at external experts on the field of circular building.</p> <p>Field Trip As a reference and as an inspiration we will also visit several circular housing and building projects</p>		
Planned learning activities and teaching methods	Lectures and field trips		
Recommended or required reading and other learning resources / tools	Laptop, calculator, drawing materials, camera, pen, paper		
Prerequisites and co-requisites			
Level	Bachelor		
Grading scale	1 up to 10, 1 dec.		
Assessment methods and criteria	Type of assessment	Grade weighting	Criteria
	Portfolio	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	<p>Lectures Lectures will be given at school in seminars of 2 hours each by our lecturers and external experts.</p> <p>Field trip The field trip will be organised by students and guided by our tutors.</p>		

Course summary			
VOE Code: BT.ECH.V18		ECTS credits: 3	
Level: Bachelor's degree (full-time)			
Course Title	Engineering Circular Housing		
Type	Compulsory		
Learning competences			
Learning outcomes	Engineering of a building following the rules for circular economy, concentrated on buildings		
Course content	In this course you will learn about sustainable and circular materials, constructions and MEP-equipment and use these knowledge to develop your project.		
Planned learning activities and teaching methods	Lectures and workshops		
Recommended or required reading and other learning resources / tools	Personal Computer (laptop), calculator		
Prerequisites and co-requisites			
Level	Bachelor		
Grading scale	1 up to 10, 1 dec.		
Assessment methods and criteria	Type of assessment	Grade weighting	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	Weekly lectures by lecturers and external experts		