

COURSE: SYSTEMIC ARCHETYPES				
AUTHOR: UOM				
THEME: KEEP RELEVANT THEMES: RENEWABLE ENERGY, SUSTAINABLE HOUSING, SUSTAINABLE FOOD SYSTEM, CIRCULAR ECONOMY				
MODULE: 4				
SESSION:2				
LECTURE TOPICS: 1. RECAP OF MAIN NOTIONS OF SYSTEM DYNAMICS 2. SYSTEMIC ARCHETYPES 3. EXAMPLES OF ARCHETYPES IN REAL LIFE 4. CASE STUDY: UNDERSTANDING CIRCULAR ECONOMY				
TARGET GROUP: END-USERS OF THE PROJECT (HE STUDENTS)				
INTEGRATION INTO CURRICULUM: integration into the school/university curriculum, connection to other disciplines and subjects if applicable				
LEARNING OUTCOMES: maximum 5 learning outcomes based on Bloom’s Taxonomy in terms of students’ knowledge, comprehension, application, analysis, synthesis. <ul style="list-style-type: none"> - Knowledge: To understand what are archetypes and how they can appear in real life cases - Comprehension: To understand the behavior of archetypes - Application: To apply the gained knowledge in developing a Causal Loop Diagram and recognizing the systemic archetype - Analysis: To understand the behavior of the archetypes - Synthesis: To transform the insights from the archetypes in the case study of circular economy 				
LECTURE OBJECTIVES: <ol style="list-style-type: none"> 1. LEARN TO UNDERSTAND WHAT IS AN ARCHETYPE AND WHERE IT MIGHT APPEAR IN REAL-LIFE COMPLEX SYSTEMS 2. UNDERSTAND THE BEHAVIOR THAT EACH ARCHETYPE CAN GENERATE 3. INVESTIGATE THE BEHAVIOR OF THE SYSTEM OF CIRCULAR ECONOMY 				
LECTURE DURATION: 60 MIN				
GREEN SKILLS ADDRESSED: (KEEP RELEVANT ONES FROM THE LIST) DESIGN SKILLS , LEADERSHIP SKILLS, MANAGEMENT SKILLS, CITY PLANNING SKILLS, LANDSCAPING SKILLS, ENERGY SKILLS, FINANCIAL SKILLS , PROCUREMENT SKILLS, WASTE MANAGEMENT SKILLS, COMMUNICATION SKILLS				
SDGS ADDRESSED: GOAL 12				
LECTURE DEVELOPMENT <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>BEFORE: preparation prior to the lesson</td> </tr> <tr> <td>LECTURES IN PPT FILES, A DOCUMENT CONTAINING ALL THE MATERIAL FOR THE LECTURE, MULTIPLE CHOICE QUESTIONS TO ASSESS THE LEVEL OF UNDERSTANDING</td> </tr> <tr> <td>INTRO: ideas for activating the student’s background knowledge or ice breaker</td> </tr> <tr> <td>RECAP OF NOTIONS OF SYSTEM DYNAMICS</td> </tr> </table>	BEFORE: preparation prior to the lesson	LECTURES IN PPT FILES, A DOCUMENT CONTAINING ALL THE MATERIAL FOR THE LECTURE, MULTIPLE CHOICE QUESTIONS TO ASSESS THE LEVEL OF UNDERSTANDING	INTRO: ideas for activating the student’s background knowledge or ice breaker	RECAP OF NOTIONS OF SYSTEM DYNAMICS
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RECAP OF NOTIONS OF SYSTEM DYNAMICS				



DURING:			
TIME	TYPE OF ACTIVITY	LEARNING ACTIVITIES	(VISUAL) AIDS
5 MINUTES	PRESENTATION: RECAP OF MAIN ELEMENTS AND NOTIONS OF SYSTEM DYNAMICS AND CAUSAL LOOP DIAGRAMS	PRESENTATION ON THE STEPS OF THE MAIN ELEMENTS OF SYSTEM DYNAMICS PRESENTATION OF HOW COMPLEX SYSTEMS CAN BE REPRESENTED IN CAUSAL LOOP DIAGRAMS	PPT FILES
25 MINUTES	PRESENTATION SYSTEMIC ARCHETYPES	PRESENTATION OF: 1) SYSTEMIC ARCHETYPES 2) BEHAVIOR THAT IS GENERATED BY ARCHETYPES 3) APPEARANCE OF ARCHETYPES IN REAL-LIFE CASE STUDIES	PPT FILES
20 MINUTES	CIRCULAR ECONOMY	PRESENTATION OF: 1) GENERAL INFORMATION ON CIRCULAR ECONOMY 2) IMPORTANT ELEMENTS IN THE SYSTEM OF CIRCULAR ECONOMY 3) DEVELOPMENT OF CAUSAL LOOP DIAGRAM OF SYSTEM (CO-CREATION ACTIVITY FOR STUDENTS)	PPT FILES, CO-CREATION ACTIVITY
5 MINUTES	DISCUSSION OF THE RESULTS	DISCUSSION WITH THE STUDENTS ABOUT THE POTENTIAL BEHAVIOR OF THE	PPT FILE, CO-CREATION ACTIVITY



		SYSTEM AND POLICY DESIGN	
<p>BEYOND: Homework: Multiple Choice Questions, Assessment: 100% MCQ Recommended additional materials: Papers, free textbook, case studies, the ppt files will be provided.</p>			

