TITLE OF THE COMPETENCE UNIT: Introduction to Sustainable Materials in Product Design	Workload:7 hours

Template for setting Learning Outcomes

OBJECTIVES

The objectives are: Understand how sustainability and circularity can be integrated into every stage of a products life cycle and how to implement design for sustainability.

In this Unit, learners will…

LEARNING OUTCOMES		
	Upon completion of this unit, the learner will be able to…	
KNOWLEDGE	**SKILLS**	**ATTITUDES**
Theoretical/Factual knowledge in: • The importance of making sustainable choices. • The key sustainability fundamentals. • The sustainability impacts that can be made at each stage of product design • The options for implementing DfS into practice • Knowledge of Planetary boundaries, sustainable development goals and doughnut economics	• Interpret current and future policies • Define sustainability • Explain circularity and circularity metrics • Define Life Cycle Analysis • Explain the importance of sustainability in the design stage • Describe the impact on sustainability through each phase of the product life • Explain which tools can be used to put DfS into practice. • Demonstrate which tools can be used to put DfS into practice.	• Sensitize peers to the impact of global warming potential and green house gases in the environment • Outline all current and future sustainable policies • Differentiate the three pillars of sustainability • Sensitize peers to circularity and circularity metrics • Show a commitment to what LCAs show them and how to use data • Differentiate Sustainable Development Goals, Planetary Boundaries and doughnut economics and explain what each are used for. • Explain why sustainability is important at the design stage

		• Distinguish between different phases of the products life cycle and state how sustainability impacts at each stage • Ability to direct and instruct others to existing tools and options for putting DfS into practice.

EXTERNAL RESOURCES:

Microsoft Teams; Powerpoint; Mentimeter