

Name of subject: Methodology of product design	NEPTUN-code: RTXTM2EBNE	Number of hours: <i>lec+gs+lab</i> 2+0+0	Credit: 3 Requirements: practice mark
Course coordinator: Daniella Koós DLA	Title: assistant lecturer	Prerequisite: Form design I.	
Subject content:			
<p>Product life cycles and product environment. Design schools. The process of product development, product definition and exploration of ideas. The optimization of product features.</p> <p>Product development concept. Product functions for industrial product design: technical (materials, technology, ergonomics), business (marketing, energy optimization, technology), psychological (effects on the consumer, security), sociology (prestige, brand), ecology (management of resources), and documentary (historical and contemporary style interpretation). The design cost factors. Design for manufacturability.</p>			
Competences to be mastered:			
<p>a) knowledge</p> <ul style="list-style-type: none"> - Knowledge of basic design principles and methods, as well as major production technology procedures and operating processes. - Knowledge of the fundamental rules and technological limitations of shaping products, of striking a harmony between content and form. - Knowledge of the learning, knowledge acquisition, and data collection methods of the special field of product design, their ethical limitations and problem solving techniques. - Knowledge of the historical periods, outstanding designers and characteristic objects of industrial design. - Knowledge of the basic rules of intellectual property management. <p>b) capabilities</p> <ul style="list-style-type: none"> - Able to apply the calculation and modelling principles and methods of special Bibliography: related to industrial product design. - Understand and use characteristic online and printed references characteristic of their special field, both in Hungarian and in at least one foreign language. - Know and apply the terminology and special expressions of their professional field in Hungarian and in at least one foreign language. 			
Bibliography:			
1. Bercsey Tibor: A terméktervezés módszertana			
2. https://elearning.uni-obuda.hu/ electronic notes and aids prepared by the instructor			