

Name of subject: Modelling	NEPTUN-code: RTXMO1BBNE	Number of hours: <i>lec+gs+lab</i> 0 + 0 + 2	Credit:3 Requirements: practice mark
Course coordinator: Dóra Papp-Vid DLA	Title: assistant lecturer	Előkövetelmény: Freehand drawing I.	
Subject content:			
<p>A modeling study helps to learn the analogies between natural and technical systems and their application possibilities in design.</p> <p>Systematics of geometric and organic shapes. Analysis of the laws of geometric and natural forms. The concept of modeling and field of use. Modeling materials. Development of design vision to help the shape creating process with the representation of basic shapes of geometric models and study their characteristics and properties. Production of models from geometric shapes. Analysis of organic forms by making paper drawings. Scale modeling of natural forms.</p> <p>Practicing the most important methods of the professional field to solve future design tasks.</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 most important basic materials applied in the special area of product design, their production and their application criteria. - Knowledge of major analogies between natural and technical systems, and their possible applications in design. <p>b) capabilities</p> <ul style="list-style-type: none"> - Able to transplant solutions evolved in nature into technical practice. 			
Bibliography:			
1. Lissák György: A formáról, Láng Kiadó, 1998.			
2. https://elearning.uni-obuda.hu/ electronic notes and aids prepared by the instructor			