

Name of subject: CAD/CAM I.	NEPTUN-code: RMXCC1BBNE
Number of hours: full time: 0 lecture + 2 laboratory hours Credit: 2 Requirement: midyear mark	Pre-requisite: Integrated product design I.
Subject owner: dr. Ákos Borbély	Name of faculty and institute: Sándor Rejtő Faculty of Light Industry and Environmental Engineering Media Technology and Light Industry Institute
Evaluation and assessment procedures:	
<p>During the practice one task must be prepared to be submitted and one in-class test per must be written.</p> <p>The midyear mark consists of the submitted practical task, the written in-class test and the evaluation of the student's activity during the practice.</p>	
Subject content:	
<p>Computer aided design. The partial technologies comprising CAD. The system of computer-aided technologies, the position of CAD/CAM. The hardware and software requirements of computer design environment. Graphics with Illustrator and Photoshop. Computer modelling: the shape model, curve, surface and body modelling procedures. The role of realistic display in technical design systems.</p> <p>Interoperability between different systems. Standard data exchange formats. The data formats necessary for production. Solution of tasks from conceptual modelling to tool making.</p> <p>The role of realistic display in technical design systems.</p> <p>The basic knowledge of the graphic design of composition tasks and visual image elements.</p>	
Bibliography:	
<p>Kepes György: A látás nyelve. Gondola (1979)</p> <p>Monoly-Nagy László: Látás mozgásban, Műcsarnok Intermédia (1996)</p> <p>Adobe® Photoshop® és Illustrator® programok</p>	