

Name of subject: Ergonomics	NEPTUN-code: RTXER1BBNE	Number of hours: lec+gs+lab 1+1+0	Credit: 3 Requirements: practice mark
Course coordinator: Gabriella Oroszlány PhD	Title: assistant lecturer	Előkövetelmény: Form design I.	
Subject content:			
<p>The concept, purpose and development stages of ergonomics. The man - product (machine) system. Anthropometric knowledge, the use of anthropometric data in design Physiological and psychological bases of ergonomics: vision, hearing, smell, touch perception, memory. Product ergonomics. The user base. Designer approaches. The ergonomic quality of the product. Ergonomic criteria. Biomechanical bases , human power and applying torque . Design for special groups, (significantly different from the average, restricted) user groups for. Process of product development, user involvement in product development. The ergonomics of product usage. Product informatics, advertising, packaging, the ergonomic aspects of creating documentation accompanying the product. Environmental ergonomics. Ergonomic design of work environment.</p>			
Competences to be mastered:			
<p>a) knowledge - Knowledge of basic design principles and methods, as well as major production technology procedures and operating processes. - Knowledge of the fundamental methods, rules and standards of ergonomics and psychology as required for industrial product design.</p> <p>b) capabilities - Able to design the form and construction of relatively simple products by taking into account the limits of production technology, the costs expected, and impacts on the environment.</p> <p>c) attitude - Taking care of ensuring equal access opportunities in problem solving.</p>			
Bibliography:			
1. Hercegfői K., Izsó L. (szerk.): Ergonómia. Typotex Kiadó, Budapest, 2007.			
2. Becker Gy.-Kaucsek Gy: Termékergonómia és pszichológia, Tölgyfa Kiadó, Bp.1996			
3. https://elearning.uni-obuda.hu/ electronic notes and aids prepared by the instructor			