

Name of subject: Machines of industrial technologies II. (blended)	NEPTUN-code: RTXIT1EBNE	Number of hours: <i>lec+gs+lab</i> 1+0+1	Credit: 3 Requirements: examination
Course coordinator: Gabriella Oroszlány PhD	Title: assistant lecturer	Prerequisite: Machines of industrial technologies I.	
Subject content:			
<p>Further machinery fundamentals, basic concepts, principles and operational requirements which are closely related to the product design expertise area.</p> <p>The material processing and basic settings of special equipment for each process step of the manufacturing process. Knowledge of the structural parts of machines (mechanical machine components, pneumatic components, etc.) will enable to understand the design and the operating principle of machines and make it possible to select the appropriate machines and equipment.</p> <p>Working principles and structural designs of the overall garment processing equipments (sewing machines, irons and glue machines, presses etc.).</p> <p>Special clothing machining: clothing welding, laser cutting, engraving technology tools, sewing machines and pneumatic cam control.</p> <p>The latest developments and innovative solutions of equipments producing packaging tools and performing packaging.</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. <p>b) capabilities</p> <ul style="list-style-type: none"> - Able to interpret and characterize the structure and operation of the structural units and components of relatively simple technical systems, as well as the design and connection of the system components applied. - Able to explore the causes of failures and to select elimination operations. 			
Bibliography:			
1. Dr. Bódi B.: Ipari technológiák gépei I. (ruhaipar) elektronikus jegyzet, Óbudai Egyetem RKK Budapest, 2011			
2. Dr. Bódi B.: Ruhaipari gépek üzemtana I.-II.-III. BMF. RKK Jegyzet, 2004.2005			
3. Kerekes Titusz: Bevezetés a csomagolás technikába I.-II., Papír Press kiadó 2001			
4. https://elearning.uni-obuda.hu/ electronic notes and aids prepared by the instructor			