

Name of subject: Packaging and Paper Technology I.	NEPTUN-code: RMWPT1EBNE	Number of hours: <i>lec+gs+lab</i> 1+0+1	Credit: 2 Requirement: practice mark
Course coordinator: László Koltai PhD	Title: associate professor	Prerequisite: -	
Subject content:			
History of paper and paper- and pulp production. Position and future of the paper industry in the Hungarian and world economy. Semi-finished products of paper industry. Pulps and rawmaterials: mechanical, thermo-mechanical semi-finished chemical cellulose pulp and bleaching. Pulp preparation. Fiber pulping, sizing, filling, refining, coloring. Papermachines and the type of its structural arrangement. Cardboard and sheet production. The presentation operations, calenders. Paper after-processing. Areas of paper processing. Corrugated board production.			
Competences to be mastered:			
a) knowledge - 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 expectations and requirements prevailing in the areas of health and safety, fire protection and safety engineering as related to the relevant special field, as well as applicable environmental regulations. - Knowledge of the most important practical work techniques of their special field.			
b) capabilities - Able to explore the causes of failures and to select elimination operations. - Able to resolve relatively simple health and safety tasks.			
c) attitude - Efforts to solve tasks and make management decisions by being aware of the opinions of the colleagues supervised, possibly in cooperation therewith.			
Bibliography:			
1. Mark J. K.: Paper and Paperboard Packaging Technology 2005 by Blackwell Publishing Ltd.			
2. Herbert Holik (Editor): Handbook of Paper and Board, ISBN: 978-3-527-33184-0			
3. J. F. Hanlon: Handbook of Package Engineering, Third Edition ISBN-13: 978-1566763066			
4. https://elearning.uni-obuda.hu/ electronic notes and aids prepared by the instructor			