

## CURRICULUM PARTITION AND REQUIREMENT SYSTEM

### OBUDA UNIVERSITY

<b>Sándor Rejtő Faculty of Light Industry and Environmental Engineering</b>		<b>Institute of Media Technology and Light Industry</b>	
<i>Subject:</i>	<b>DIGITAL PRINTING TECHNOLOGIES</b>	<i>Neptun-code:</i>	<b>RMTDTANVNC</b>
<i>Lecturer:</i>	<b>Dr. Rozália Szentgyörgyvölgyi</b>	ECTS:	<b>3</b>
<i>Weekly classes:</i>	<b>2 hours of lecture</b>	Language:	<b>English</b>

#### SUBJECT CONTENT

#### ***Education goals:***

The aim of the course is to introduce students to the properties and application conditions of digital printing technologies. Digital technology is one of the printing technologies which develop dynamically. One of its application areas is the short run printing. Personalized print media products could be produced by inkjet, electrophotography and other digital technologies. Special characteristics, advantages of the technologies, media production will be discussed. Properties of substrates and inks/toners, the structure of digital presses and the control process of the production processes will be presented.

#### ***Topics of the practice work with terms and description:***

Week	Topic with brief description:
1.	Introduction of Print Media Industry
2.	Properties of Conventional and Digital Printing Technologies
3.	Computer to Technologies
4.	Printing Process and Functional Components in Non-Impact Printing Technologies
5.	Principle of Electrophotography
6.	Imaging System of Electrophotography; Written Test 1
7.	Inking Unit and Toner of Electrophotography
8.	Overview of Ink Jet Technologies and Processes
9.	Continuous Ink Jet
10.	Drop on Demand Ink Jet Technologies
11.	Overview of Termography Technologies
12.	Investigation of Prints Printed by Electrophotography and Ink Jet Technologies
13.	Written Test 2
14.	Evaluation / Improver Written Test

#### BIBLIOGRAPHY

PPT files in the e-learning system at the homepage of Obuda University  
 H. Kipphan: Handbook of Print Media, 2000, Springer  
 Schulz P., Endrédi I.: Angol – magyar nyomdaipari értelmező szótár, P&E, 2005  
 Access to materials of lectures in PPT.