

Name of subject: Technologies and environmental protection in creative industries, (print, paper, packaging) I.	NEPTUN-code: RMWKI1ABNE	Number of hours: lectures+ classroom practice+lab practice 2+0+1	Credit: 5 Requirement: tm
Course leader: Konrád Lájér, Dr.	Position: professor	Pre-requisite: none	
Curriculum:			
<p>History of paper and paper- and pulp production and printing technologies. Position of the paper- packaging and printing industry in the Hungarian a world economy. Future of paper industry. Semi-finished products of paper industry. Pulps and raw materials: mechanical, thermo-mechanical semi-finished chemical cellulose pulp and bleaching. Pulp preparation. Fiber pulping, sizing, filling, refining colouring. Paper machines and the type of its structural arrangement.</p> <p>Packaging materials. Cardboard and sheet production. Paper after-processing. Areas of paper processing. Corrugated board production. Plastics in packaging industry: PU, PA, PS, PET, EVA, PVOH, EVOH.</p> <p>Conventional printing technologies: Letterpress, Offset, Gravure Other printing techniques. Digital printing. Green printing technologies.</p>			
Professional competencies:			
<p>Knowledge of the learning, knowledge acquisition, and data collection methods of the special fields of environment protection, their ethical limitations and problem solving techniques.</p> <p>Knowledge of requirements and methods for health and safety, fire protection, safety engineering and remediation as related to the field of environment protection.</p> <p>Adequate perseverance and endurance of monotony to perform practical operations.</p> <p>Able to cooperate with engineers involved in the development and application of production and other technologies to develop the given technology in terms of environment protection.</p>			
Literature:			
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. Tsien, Tsuen-Hsuei (1985). "Paper and Printing" Cambridge University Press			
4. https://elearning.uni-obuda.hu/			
Remark:			

Types of Technology and Its Impact on Environmental Protection: The classification of environmental technologies is an essential first step in the process of characterizing an environmental technology group as a whole, monitoring changes, and assessing implications for performance. In fact, other research supports straighter -forward types for characterizing environmental technologies as fitting to three general classes: Pollution prevention, Management system, Pollution control. Impact of it in Environmental Management on Industries of Goa: Investigation has Identified that Industries in Goa Hardly Adopted the Technology in Environmental Protection and Management. Cultural industries, arts, culture and creative arts first paper. Towards an understanding of the current nature and scope of the Creative Industries in the Western Cape. Mike van graan. Contents. The Department of Arts, Culture, Science and Technology launched its Cultural Industries Growth Strategy (CIGS) in 1997, focusing on the four sectors of craft, music, publishing and film. Initial research into these areas revealed a film sector worth about R7,4 billion, a music industry worth R2 billion and a publishing industry that was worth R6 billion, collectively employing in excess of 100 000 people. The printing industry, like many other industries, continues to undergo technological changes, as computers and technology alter the manner in which work is performed. Many of the processes that were once done by hand are becoming more automated, and technology's influence can be seen in all three stages of printing. The most notable changes have occurred in the prepress stage. Instead of cutting and pasting articles by hand, workers now produce entire publications on a computer, complete with artwork and graphics. Changing technology and new business models that make greater use of digital equipment and shorter-run print jobs will stem the rate of decline and provide job opportunities in an evolving printing industry. Employment change. PDF | In the Printing Industry, printing inks, varnishes, lacquers, moistening solutions and washing solvents (ethanol, methyl acetate, ethyl acetate, | Find, read and cite all the research you need on ResearchGate. Paper ink interaction is extremely important in printing. Ideal printing outputs should be achieved with minimal ink consumption. It should not be supposed that visual printing quality will increase as the amount of ink increases. The effects of excessive ink consumption during the printing process on process sustainability, economy and environment should not be ignored. In this study, the effects of ink consumption during the printing process on printing quality parameters were mainly examined. Environmental protection is the practice of protecting the natural environment by individuals, organizations and governments. Its objectives are to conserve natural resources and the existing natural environment and, where possible, to repair damage and reverse trends. Due to the pressures of overconsumption, population growth and technology, the biophysical environment is being degraded, sometimes permanently. This has been recognized, and governments have begun placing restraints on activities that...