

Responsible teacher: Eero Hiltunen (EH)

Second teacher: Jouni Paltakari (JP)

CHEM-E2135 Converting of Web-Based Products

Date:	time:	Lecture hall	Covered topics 2024		
Thu 29.2.2024	13-15	L2	EH	2x45 min	INTRODUCTION: Course contents, concepts, current trends in converting, board classification
7.3.2024	13-15	L2	EH	2x45 min	Fiber, paper and board product applications Homework: Product analysis Surface sizing, pigment coating, calendering, winding/slitting = Pretreatments for converting
14.3.2024	13-15	L2	JP	2x45 min	Adhesion, cohesion and their applications. MyCourses exercise on adhesion (exercise can be done on your own time).
21.3.2024	13-15	L2	EH	2x45 min	Barrier properties Dispersion and solution coating
(28.3.24)	no lecture!	-	(Aalto spring break)		
4.4.2024	13-15	L2	EH	2x45 min	Hot melt and wax coating, Lamination, Gluing Biotrends in converting of paper and board
11.4.2024	13-15	L2	JP	2x45 min	Extrusion coating
(18.4.2024)	no lecture!	-	(exam week)		
Wed 24.4.2024	13-15	L2	JP	2x45 min	Siliconization, impregnation, metallizing Sheeting, Cutting and creasing, Embossing, Printing
Thu 25.4.2024	13-15	L2	EH/JP	2x45 min	Seminar - Oral presentation of Lab results and discussion
May	Personal oral exam		EH		Focus on phenomena (not on e.g. technical details of equipment)
End of March, early April			Lab		One short laboratory exercises (about one day in lab) - in small groups Barrier-properties (base paper/board + K-coater coating)
					Lab reports as PowerPoint presentations - simplified reporting style. Dead-line for report (-> MC) Tu 23.4. More detailed info will come to MC Assignments folder.