

Responsible teacher: Eero Hiltunen (EH)
 Second teacher: Jouni Paltakari (JP)

CHEM-E2135 Converting of Web-Based Products

Date:	time:	Lecture hall	Covered topics 2023		
Thu 2.3.2023	13-15	L2	EH	2x45 min	INTRODUCTION: course contents, terminology, paper and board classification
9.3.2023	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
16.3.2023	13-15	L2	JP	2x45 min	Adhesion, cohesion and their applications. MyCourses exercise on adhesion (exercise can be done on your own time).
23.3.2023	13-15	L2	EH	2x45 min	Barrier properties Dispersion and solution coating
30.3.2023	13-15	L2	JP	2x45 min	Extrusion coating
Wed 5.4.2023	13-15	L2	EH	2x45 min	Hot melt and wax coating, Lamination, Gluing Biotrends in converting of paper and board
Thu 13.4.2023	13-15	L2	JP	2x45 min	Siliconization, impregnation, metallizing Sheeting, Cutting and creasing, Embossing, Printing
(20.4.2023)	no lecture!	-	(exam week)		
27.4.2023	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) 25.4.
 More detailed info will come to MC Assignments folder.