

SCHEDULE 2022/2023 -autumn
(Polymer Processing BMEGEPTBGE3)
Lecture (T200) & laboratory (MT laboratory): Monday 10-12

Week	Hours		Lecture/Laboratory practice	Date
	Lec	Lab		
1	2	-	Introduction. Classification of polymer processing technologies. Basic rheological aspects of polymers. Polymers' way to products. Preliminary techniques of polymer processing (material conveying, drying, mixing, dosing, etc.). Calendering.	05/09/2022
2	2	-	Extrusion machineries, single and twin-screw extruders. Extrusion.	12/09/2022
3	2	-	Compounding with extruder. Extrusion dies	19/09/2022
4	-	2	Laboratory practice: Group A: Compounding with twin-screw extrusion. Group B: Extrusion film blowing.	26/09/2022
5	-	2	Laboratory practice: Group A: Extrusion film blowing. Group B: Compounding with twin-screw extrusion	03/10/2022
6	2	-	Thermoforming. Hollow plastic parts I. (Extrusion blow molding).	10/10/2022
7	-	2	Laboratory practice: Group A: Thermoforming. Group B: Extrusion blow molding.	15/10/2022
8	-	2	Laboratory practice: Group A: Extrusion blow molding. Group B: Thermoforming	17/10/2022
9	2	-	Hollow plastic parts II. (Injection blow molding, rotational molding, twin-sheet thermoforming). Joining technologies: welding and adhesive bonding.	24/10/2022
10	-	2	Laboratory practice: Group A: Rubber mixing and vulcanization. Group B: Foaming.	07/11/2022
11	-	2	Laboratory practice: Group A: Foaming. Group B: Rubber mixing and vulcanization	14/11/2022
12	2	-	Elastomer technologies. Raw materials. Formulation, mixing, shaping and vulcanization. Foam technology: thermoplastic and thermoset foams	21/11/2022
13	2	-	Mid-semester check	28/11/2022
14	2	-	Retake of mid semester check	05/12/2022