	session	CLASS
sep-19	1	Introduction: Polymer Science and Technology. Basic definitions and Nomenclature. Molecular weight and degree of polymerization. Polymer Classification.
	2	Polymer Synthesis: Polymerization by addition and Condensation. Copolymerization
	3	Polymerization Methods. Introduction. Bulk polymerization, Solution polymeriation, Suspension polymerization and Emulsion polymerization.
	4	Molecular Weights. Average molecular weight Definitions. Techniques for measuring molecular weight
	5	Structure and conformation of the polymer chain. Configuration of the polymer chain. Tacticity. Polymers in solution: Flory-Huggins theory
oct-19	6	Solid state: Amorphous polymers. Glass transition temperature. Experimental techniques Factors that affect its value.
	7	Crystalline solid state I. General considerations. Crystal morphology. Characterization techniques
	8	Crystalline solid state II. Crystallization from the melt. Fusion. Examples of crystalline polymers
	9	Polymer Blend: Introduction. Polymer Blend Thermodynamics I
	10	Polymer Blend: Polymer Blend Thermodynamics II
	11	Polymer Blend: Compatibilization, Interface, Morphology
	12	Elastomeric state. Rubber theory
		EXAMS WEEK
	13	Viscoelasticity Definition. Rheological models
	14	Mechanical behavior. Tensile, flexion, compression and impact tests
	15	Thermostable Polymers: Synthesis of crosslinked polymers. Network formation, gelation and vitrification. Transition Temperature and Transformation Diagrams
nov-19	16	Modified thermosets. Preparation and morphology. Tenacity Modifiers
	17	Modified thermosets. Modifiers for toughening
	18	Polymer Technology I
	19	Polymer Technology II
	20	Mechanical Properties: LAB SESSION
	21	Mechanical Properties: LAB SESSION
	22	High performance polymers. Applications
dic-19	23	Conductive polymers and polyelectrolytes
	24	Biopolimers
	25	Polymer Blends: LAB SESSION
	26	Polymer Blends: LAB SESSION
jan-20		ΕΧΑΜ