




3 credits

22.5 h

Q2

Teacher(s)	Gohy Jean-François ;
Language :	French
Place of the course	Louvain-la-Neuve
Prerequisites	<i>The prerequisite(s) for this Teaching Unit (Unité d'enseignement – UE) for the programmes/courses that offer this Teaching Unit are specified at the end of this sheet.</i>
Main themes	The following questions are examined (in parenthesis the number of hours for that point) : 1. Basic notions (6 hrs) : macromolecule notion : types of polymers, nomenclature notion, stereochemistry notion, molecular masses and their distribution - polymer material notion. 2. Main methods of synthesis (6 hrs) : general problems - chain polymers : introduction to radical, ionic and coordination polymers - polymerization by steps : main ideas and chosen examples - modification of polymers. 3. Methods of characterization (6 hrs) : brief presentation of characterization methods particularly used in polymer chemistry : techniques of characterization of molecular masses, characterization techniques of the main physical properties. 4. Typical applications (4 hrs) : brief description of some applications of polymer materials.
Aims	<p>1 The course is for chemistry student interested in an introduction to polymers. It forms a homogeneous entity giving sufficient bases for students that do not desire to specialize in this field. It does not constitute a necessary prerequisite to the more specialized courses of 4th year (although quite useful).</p> <p>-----</p> <p><i>The contribution of this Teaching Unit to the development and command of the skills and learning outcomes of the programme(s) can be accessed at the end of this sheet, in the section entitled "Programmes/courses offering this Teaching Unit".</i></p>
Faculty or entity in charge	CHIM

Programmes containing this learning unit (UE)				
Program title	Acronym	Credits	Prerequisite	Aims
Bachelor in Chemistry	CHIM1BA	3	LCHM1141	
Master [60] in Biology	BIOL2M1	3		
Master [120] in Biochemistry and Molecular and Cell Biology	BBMC2M	3		
Minor in Chemistry	LCHIM100I	3		