

[illegible]

		Nanotechnologies & Biotechnologies				Technologies for Sustainability						Industrial Technologies							
		Materials		Chemical Engineering				Materials		Chemical Engineering				Materials		Chemical Engineering			
1st year	1st semester	Molecular simulation		Molecular simulation		1st year	1st semester	Molecular simulation		Molecular simulation		1st year	1st semester	Molecular simulation		Molecular simulation			
		Advanced materials science		Chem. and biochem. reaction engineering				Advanced materials science		Chem. and biochem. reaction engineering				Advanced materials science		Chem. and biochem. reaction engineering			
		Soft materials and drug delivery		Soft materials and drug delivery				Polymeric and Composite Materials		Polymeric and Composite Materials				Polymeric and Composite Materials		Polymeric and Composite Materials			
		Biomaterials, artificial organs and prostheses		Biomaterials, artificial organs and prostheses				Impiego industriale dell'energia (in Italian)		Impiego industriale dell'energia (in Italian)				Impiego industriale dell'energia (in Italian)		Impiego industriale dell'energia (in Italian)			
	2nd semester	Experimental lab. of nanotech. and biot.*		Experimental lab. of nanotech. and biot.*			Strategic and critical materials		Strategic and critical materials		Strategic and critical materials			Strategic and critical materials		Strategic and critical materials			
		Molecular biology for engineering*		Molecular biology for engineering*			Ceramic materials		Ceramic materials		Ceramic materials			Ceramic materials		Ceramic materials			
2nd year	1st semester	Adv. simul. for nanotech. and biot.		Adv. simul. for nanotech. and biot.		2nd year	1st semester	Materials and systems for the energy trans.		Materials and systems for the energy trans.		2nd year	1st semester	Metals and fracture mechanics		Metals and fracture mechanics			
		Green nanotechnology, natural and bioinspired materials		Green nanotechnology, natural and bioinspired materials				Green nanotechnology, natural and bioinspired materials		Design for sustainability of products and processes				Design for sustainability of products and processes		Design for sustainability of products and processes			
		Polymeric and Composite Materials		Sustainable industrial chemistry				Sustainable industrial chemistry		Sustainable industrial chemistry				Sustainable industrial chemistry		Sustainable industrial chemistry			
		Enzyme kinetics		Enzyme kinetics				Tecnologia delle energie rinnovabili (in Italian)		Tecnologia delle energie rinnovabili (in Italian)				Tecnologia delle energie rinnovabili (in Italian)		Tecnologia delle energie rinnovabili (in Italian)			
	2nd semester	Materials charact. and data analysis		Process dynamics and control			Materials charact. and data analysis		Process dynamics and control		Materials charact. and data analysis			Process dynamics and control		Materials charact. and data analysis		Process dynamics and control	
		Nanomaterials for nano&bio tech.		Process design and optimization			Nanomaterials for nano&bio tech.		Process design and optimization		Nanomaterials for nano&bio tech.			Process design and optimization		Nanomaterials for nano&bio tech.		Process design and optimization	
Elective (strongly suggested)	1st semester			Polymeric and Composite Materials		Elective (strongly suggested)	1st semester	Metals and fracture mechanics				Elective (strongly suggested)	1st semester						
	2nd semester						2nd semester	Design for sustain. of prod. and proc.					2nd semester						