

Syllabus MSc Green Chemistry and Processes for Biomass (Green CAP)

SEMESTER	MODULES	Number of ECTS credits	Courses (in hours of class lecture L)
First year M1 Semester 1 (semester for International master) (Sept – Dec) 30 ECTS credits	Communication & Research	9	30 L + 25 PW + 10 L
	Unit operations for industrial processes	8	30 L + 30 EW
	Mass transfer phenomenon	5	15 L + 30 LW
	Green processes for biomass	8	42 L + 10 PW
First year M1 Semester 2 (Jan – June) 30 ECTS credits	Tools for green Chemistry	8	27 L + 15 TW + 15 PW +6 S
	Sustainable Processes	10	13 L + 19 TW + 10 LW + 45 EW + 5 PW
	Polymer Sciences	4	8 L + 8 PW
	Professionalization / project	6	24 L + 35 EW
	2-month internship in enterprise or research lab / OR / Research essay, in May-June Oral defense first week of July	2	
Second year M2 Semester 3 (Sept – Jan) 30 ECTS credits	Tools for green chemistry and Process	4	16 L + 10 TW + 10 PW
	Bioprocesses	4	18 L + 21 LW
	Formulation	4	20 L + 9 LW
	Conception of Bioproducts	4	22 L + 21 LW + 3 TW + 3 S
	Catalysis and alternative energies	4	32 L

	Research project	10	170 EW
Second year M2 Semester 4 (Feb – July) 30 ECTS credits	5-6 month internship in a company or research lab / from February to June-July Oral defense in July or September	30	

L: lesson, TW: tutored work, PW: personal work, LW: laboratory work, EW: experimental work, S: seminar