Vue cycle du programme des cours

		Bl	Or	Th	Pr	Au	Cr

Ce programme résulte d'une collaboration avec différentes universités européennes (Bordeaux, Lisbonne, Dortmund, etc.). Les étudiants qui participeront à ce programme devront acquérir 60 crédits à l'ULiège (30 crédits de finalité et 30 crédits pour les TFE/stage). Les 60 autres crédits seront acquis au sein d'une des universités partenaires du programme.

Optional courses from the core curriculum (B1 : 60Cr)

Choose a partner university's programme : (B1 : 60Cr)

University of Miskolc (B1 : 60Cr)

HULG9740-1	*Quant. sustainability assessment methods, Project work* * (anglais)	B1		-	-	-	**6**
* are joint (online) courses gathering students of the same edition							
HULG9741-1	*Industrial Seminar, Joint Project* *	B1		-	-	-	**6**
* are joint (online) courses gathering students of the same edition							
HULG9742-1	*Microstructure investigation* (anglais)	B1		-	-	-	**6**
HULG9743-1	*Basics of waste management and waste utilization* (anglais)	B1		-	-	-	**7**
HULG9744-1	*Recycling of glass, rubber, polymer and paper wastes* (anglais)	B1		-	-	-	**5**
HULG9745-1	*Materials testing* (anglais)	B1		-	-	-	**4**
HULG9746-1	*Polymer studies* (anglais)	B1		-	-	-	**4**
HULG9747-1	*Mechanical activation and particulate composites* (anglais)	B1		-	-	-	**6**
HULG9748-1	*Applied chemistry and transportation processes* (anglais)	B1		-	-	-	**6**
HULG9749-1	*Materials equilibria* (anglais)	B1		-	-	-	**3**

Elective courses (B1 : 7Cr)

Choose one course among : (B1 : 7Cr)

HULG9750-1	*Polymer studies 2* (anglais)	B1		-	-	-	**7**
HULG9751-1	*Waste preparation technologies and qualification of wastes* (anglais)	B1		-	-	-	**7**
HULG9752-1	*Chemical processes 2* (anglais)	B1		-	-	-	**7**

Remark : mandatory for those who want to get Uliege degree

University Nova of Lisboa (B1 : 60Cr)

HULG9755-1	*Biocatalysis and Bioremediation* (anglais)	B1		-	-	-	**6**
HULG9756-1	*Entrepreneurship* (anglais)	B1		-	-	-	**3**
HULG9757-1	*Finance for Entrepreneurs* (anglais)	B1		-	-	-	**3**
HULG9758-1	*Project in Innovative Materials Recycling and Sustainability* (anglais)	B1		-	-	-	**6**
HULG9759-1	*Materials Selection and Sustainability* (anglais)	B1		-	-	-	**3**
HULG9760-1	*Industrial and Entrepreneurial Seminars* (anglais)	B1		-	-	-	**3**
HULG9761-1	*Substitution by Clean Technologies and Green Chemistry* (anglais)	B1		-	-	-	**6**
HULG9762-1	*Characterisation, Monitoring and Rehabilitation Techniques* (anglais)	B1		-	-	-	**6**
HULG9763-1	*Waste treatment and Recycling Technologies* (anglais)	B1		-	-	-	**3**
HULG9764-1	*Advanced Topics in Materials Science and Engineering* (anglais)	B1		-	-	-	**3**

Optional courses (B1 : 18Cr)

Choose 3 courses among : (B1 : 18Cr)

Remarque : the first 3 courses are compulsory to obtain the degree of Master of science in Chemical and Materials Engineering of the University of Liege.

HULG9765-1	*Transport Phenomena* (anglais)	B1	-	-	-	**6**
HULG9766-1	*Chemical Reactors I* (anglais)	B1	-	-	-	**6**
HULG9767-1	*Separation Processes I* (anglais)	B1	-	-	-	**6**
HULG9768-1	*Mineral Processing and Sustainable Exploration and Mining* (anglais)	B1	-	-	-	**6**
HULG9769-1	*Mineral Resources in the Circular Economy* (anglais)	B1	-	-	-	**6**
HULG9770-1	*Nanomaterials and Energy* (anglais)	B1	-	-	-	**3**

Compulsory courses from the core curriculum (B2 : 30Cr)

Remarque : the courses of this major are exclusively reserved for Erasmus students who follow the whole programme "Advanced Materials -Innovative Recycling" during the second year of the Master.

University of Liège

ATFE9012-1	*Master Thesis (including an introduction to research methodology)* (anglais) - Stéphanie LAMBERT - [750h Proj.]	B2	TA	-	-	[+] **25**

[...] Choose 5 credits from the University of Liège course catalog or the internship.

ASTG0023-1	*Stage technique (8 semaines)* - Benoît HEINRICHS - [40j T. t.]	B2	TA	-	-	[+] **5**
CHIM0022-4	*Transport phenomena* (anglais) - *Partim A* - *Partim B*	B2	Q2 30 -	 - 20	 - -	**5**

Note : CHIM0022-4 is a compulsory course for students who have not taken an equivalent course in their curriculum. Please note that among the courses organized at University Nova of Lisboa, the course Transport Phenomena II can be recognized as an equivalent course, but not the course Transport Phenomena I.

CHIM9338-1	*Advanced (bio)materials, Partim A : Theory and Supervised exercices* (anglais) - Stéphanie LAMBERT - [0,5h T. t.]	B2	Q1	20	12	[+] **5**

Focus courses (B2 : 30Cr)

GEOL1044-1	*Raw Materials in a Circular Economy* (anglais) - [1j T. t.]	B2	Q1	26	26	[+] **5**
GEOL1043-1	*Extractive metallurgy* (anglais) - Stoyan GAYDARDZHIEV - [1j T. t.]	B2	Q1	30	20	[+] **5**
GEOL0315-1	*Solid Waste and by products processing* (anglais) - Stoyan GAYDARDZHIEV - [20h Labo., 7h Proj., 1,5j T. t.]	B2	Q1	20	-	[+] **5**
GEOL1045-1	*Economic and societal issues in mining and recycling* (anglais) - [30h Proj., 2j T. t.]	B2	Q1	15	-	[+] **5**
CHIM0695-2	*Modelling of chemical & energy processes* (anglais) - Grégoire LÉONARD	B2	Q1	20	32	- **5**
MECA0526-1	*High Temperature Processes in Recycling & Remanufacturing* (anglais) - Anne MERTENS - [1j T. t.]	B2	Q1	26	26	[+] **5**