

ENVIRONMENTAL ENGINEERING MASTER
SUBJECTS IN HOST INSTITUTION - ENGLISH COURSES FOR ERASMUS +KA107

<u>CODE</u>	<u>SUBJECT</u>	<u>ECTS</u>	
53452	SIMULATION OF PROCESSES FOR POLLUTION MANAGEMENT AND TREATMENT (SIMULACION DE PROCESOS DE GESTION Y TRATAMIENTO DE LA CONTAMINACION)	3	Environmental Engineering Master
53454	ENVIRONMENTAL BIOTECHNOLOGY (BIOTECNOLOGÍA AMBIENTAL)	3	Environmental Engineering Master
53457	MASTER THESIS (TRABAJO FIN DE MASTER)	9	Environmental Engineering Master
TOTAL		15	

SIMULATION OF PROCESSES FOR POLLUTION MANAGEMENT AND TREATMENT

- Lesson 1. Introduction to the mathematical modelling of Activated Sludge
- Lesson 2. Process design for COD removal and nitrification
- Lesson 3. Process design for COD and nitrogen removal
- Lesson 4. Process design for biological phosphorous removal
- Lesson 5. Activated sludge Modelling 1
- Lesson 6. Model-Based Design of WWTPs and Operation Variables

ENVIRONMENTAL BIOTECHNOLOGY

- Lesson 1. Molecular biology tools
- Lesson 2. Biological nutrients removal
- Lesson 3. Aerobic biofilm processes
- Lesson 4. Biological gas treatment
- Lesson 5. Emerging pollutants

MASTER THESIS Research work in the Environmental Technology Group (<http://envtech.uva.es/>).

If more credits were needed, students could choose the following recommended subjects:

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75003	ENVIRONMENTAL & RENEWABLE ENERGY	6	International Semester
	SPANISH COURSE	3	
	OTHER SUBJECT OF THE INTERNATIONAL SEMESTER http://relint.uva.es/inicio/internacional/espanol/international-semester-programmes/escuela-de-ingenierias-industriales-valladolid/		International Semester