






Water and Environmental Engineering Degree (Master of Engineering) Module Overview

Semester 5 - Autumn			Semester 6 - Spring			Semester 7 - Autumn			Semester 8 - Spring			Semester 9 - Autumn 			Semester 10
Code	Module	ECTS	Code	Module	ECTS	Code	Module	ECTS	Code	Module	ECTS	Code	Module	ECTS	Module
CALC SCIEN	Higher Mathematics and Scientific Calculations	3	ECOV1 BIO	Life Sciences	3	MECA SOL	Civil Engineering 1	3	GC2	Civil Engineering 2	3	Specialisation (see detailed information on the next page) The students have to choose between the following specialisations: Hydrosystems (in English)  24 Water Treatment (in English)  24 Urban Hydraulics 24 Utility Management and Construction Sites 24 Solid Waste 24 International Engineering (in English)  3 Advanced Project Management (in English)  3 Career Exploration and Preparation 3 Personal and Professional Development 3 French as a Foreign Language (Offered for Incoming Students from Abroad)* 3			Final Engineering Project 6 Months
SOLVI BIO	Agronomy, Ecology and Microbiology	3	GENI PROC	Process Engineering	3	TREAU C1	Drinking Water Treatment	3	Specialisation (Compulsory electives) See detailed information on the next page						
CHIM EAU	Water Chemistry	3	HYDR AUL	Pipe and Open Channel Hydraulics	3	TREAU S1	Wastewater Treatment	3							
MECA FLU	Fluid and Continuum Mechanics	3	HF	HEC RAS Modelling, Solid Matter Transport	3	RESP2	Drinking Water Networks 2	3	VOY AGE	Excursion	-				
HYDRO LOG	Hydrology	3	RESP1	Drinking Water Networks 1	3	RESU2	Sewer Systems 2	3	PRO PLU	Multidisciplinary Project 2	3				
HYDRO GEO	Hydrogeology	3	RESU1	Sewer Systems 1	3	METRO	Metrology	3	DECID AID	Financial Decision-Making in Engineering	3				
STATS	Statistics and DBMS	3	DON NEES	Data Analysis, CAD, GIS	3	ENVIS	Social Sciences of the Environment (Compulsory electives)	3	LANG4	Foreign languages*	3				
GEMINA	Public Management of the Environment and Stakeholders	3	PRORIV	Multidisciplinary Project 1	3	DROIT	Environmental and Urban Law	3	ENGAG ETU	Student Volunteerism Project	3				
MANA GING	Project Management and Sustainable Development	3	GEST ENP	Company Management Seminar	3	LANG3	Foreign languages*	3	COM4	Personal and Professional Development 2	-				
LANG1	Foreign languages*	3	LANG2	Foreign languages*	3	MET IER3	Knowledge of the Working World (Compulsory electives)	3	Practical Engineering Internship (SPI) 3 Months from May to July						
COM1	Career Exploration and Preparation 1	-	COM2	Career Exploration and Preparation 2	-	COM3	Personal and Professional Development 1	-							
MET IER1	Career Exploration Internship	-	MET IER2	On-Site Internship and Safety on Construction Sites	-										
30			30			30			30			30			30
120 ECTS															



Water and Environmental Engineering (Master of Engineering) Specialisations - Module Overview

Urban Hydraulics				Hydrosystems - Focus on Surface Systems				Water Treatment				Utility Management and Construction Sites				Ecology / Ecological engineering			
Code	Module	Language	ECTS	Code	Module	Language	ECTS	Code	Module	Language	ECTS	Code	Module	Language	ECTS	Code	Module	Language	ECTS

Semester 8

VAL ENER	Thermodynamic Approach to Treatments	FR	3	HYDRO MOD1	Modelling Tools for Water Resource Management 1	FR	3	VAL ENER	Thermodynamic Approach to Treatments	FR	3	VAL ENER	Thermodynamic Approach to Treatments	FR	3	VAL ENER	Thermodynamic Approach to Treatments	FR	3
HYDRAU MOD	3D Modelling Hydraulics	FR	3	HYDRO MOD2	Modelling Tools for Water Resource Management 2	FR	3	AUTOM	Electrotechnics and Automation	FR	3	AUTOM	Electrotechnics and Automation	FR	3	AUTOM	Electrotechnics and Automation	FR	3

Total ECTS Specialisation in Semester 8

6

Semester 9

PILOT	Public Performance Monitoring and Expertise	EN	3	GESTER	Territorial Management of the Environment and Risks	EN	6	PILOT	Service Organisation and Expertise	EN	3	PILOT	Service Organisation and Expertise	EN	3	GESTER	Territorial Management of the Environment and Risks	EN	6
MOD	3D Modelling for Sanitation and Drinking Water Supply	FR	3					NOR MAL	Standardisation and Risk Evaluation	EN	3	NOR MAL	Standardisation and Risk Evaluation	EN	3				
MOD ASS	Advanced Modelling for Sanitation	FR	3	GESER	Erosion and Solid Matter Transport	EN	3	TREAU C2	Drinking Water Treatment 2	EN	3	REAL TRAV	Contracts for the Public Sector	FR	3	INGEC OL	Ecological Engineering	FR	3
MOD AEP	Quality Modelling for Water Supply	FR	3	GES QUAL1	Contaminant Transport in Hydrosystems	EN	3	TREAU S2	Wastewater Treatment 2	EN	3	DIA GOUV	Diagnostics and Rehabilitation of Water Storage Infrastructure	FR	3	GME	Species and ecosystem management	FR	3
GC3	Project Construction and Network Implementation	FR	3	ING ECOL	Ecological Engineering	EN	3	ING ECOL	Ecological Engineering	EN	3	GC3	Civil Engineering - Project Construction / Network Implementation	FR	3	SCOT	Territorial coherence and landscape continuity	FR	3
GEST PAT	Management of Potable Water Stewardship and Sanitation	FR	3	GES QUAL2	Management of Aquatic Natural Environments	EN	3	TREAU S3	Wastewater Treatment Modelling	EN	3	GEST PAT	Management of Potable Water Stewardship and Sanitation	FR	3	REX	Ecological restoration	FR	3
HYDRO MOD3	Management of Flooding Risks and 2D Urban Stream Flood Modelling	EN	3	HYDRO MOD3	Management of Flooding Risks and 2D Urban Stream Flood Modelling	EN	3	MHY TREA	Modelling Hydrodynamic and Reactive Transfers in Constructed Wetland	EN	3	DROI TRAV	Team Management, Labour Law, Operational Safety	FR	3	ECOQ UANT	Theoretical and quantitative ecology	FR	3
PROTEC	Technological Project/ Company Project	FR	3	PROTEC	Technological Project/ Company Project	EN	3	PROTEC	Technological Project/ Company Project	EN	3	EXPLOIT	Operation of Systems	FR	3	PROTEC	Technological Project/ Company Project	EN	3

Total ECTS Specialisation in Semester 9

24

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In English