

## Water and Environmental Engineering Degree (Master of Science in Engineering) Module Overview

Year 1 (Level Bachelor 3)						Year 2 (Level Master 1)							Year 3 (Level Master 2)					
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	4	BIO	Life Sciences	2	GC1	Civil Engineering Level 1	3	Specialisation (Compulsory electives)  8  The students have to choose between the following				ge)					
SOLVI BIO	Agronomy, Ecology and Microbiology	2	GENI PROC	Process Engineering	2	TREAU S1	Wastewater Treatment	3				The stu		lowing				
CHIM	Water Chemistry	2	ECOJT	Contemporary ecology	1	TREAU C1	Drinking Water Treatment	4		detailed information on the next page		Hydrosy	rstems (in English)	24				
MECA FLU	Fluid and Continuum Mechanics	3	HF	HEC RAS Modelling, Solid Matter Transport	2	RESU2	Sewer Systems 2	4				Water T	reatment (in English)	24				
HYDRO LOG	Hydrology	2	RESP1	Drinking Water Networks 1	2	RESP2	Drinking Water Networks 2	4	INGENINT <b>Int</b>	ernational Engineering	1	Urban H	lydraulics					
HYDRO GEO	Hydrogeology	3	RESU1	Sewer Systems 1	2	GC2 ou TRAME BLEU	Civil Engineering 2 or Water landscape connectivity	2	VOY AGE Exc	cursion	-	Utility Management and Construction Sites 24			Final Engineering Project			
GEMINA	Public Management of the Environment and Stakeholders	3	HYDR	Pipe and Open Channel Hydraulics	4	ENVIS	Social Sciences of the Environment	2	DROIT <b>Env</b>	vironmental legislation	2	Ecology	/ Ecological engineering	24	6 Months			
MANA GING	Project Management and Sustainable Development	2	PRORI	Multidisciplinary Project "River"	4		OR Sustainable development	2		ancial Decision-Making Engineering	1	MANAG	Advanced Project Management (in English)	3				
STATS	Statistics and DBMS	3	DON NEES	Data Analysis, CAD, GIS	2	METRO	Metrology	2										
COM1	Career Exploration and Preparation 1	-	GEST ENP	Company Management Seminar	2	сомз	Personal and Professional Development 1	1	COM4	rsonal and Professional velopment 2	1	сом6	Personal and Professional Development 3	3				
LANG1	Foreign languages*	3	LANG	Foreign languages*	3	LANG3	Foreign languages*	3	LANG4 For	reign languages*	3	LANG4	Frech as a foreign language*	3				
MET IER1	Career Exploration Internship (1 week)	3	MET IER2	On-Site Internship and Safety on Construction Sites (1 month)	4	MET IER3	Knowledge of the Working World (Compulsory electives)	2	SPI Inte	octical Engineering ernship (SPI) Months from May to July	14	MET IER4	Career Exploration and Preparation 3	-				

ENGEES - National School for Water and Environmental Engineering Strasbourg

Department of International Relations

1 quai Koch – F-67000 Strasbourg

www.engees.unistra.fr/en/

engees-ri@unistra.fr



<sup>\*</sup> A class "French as a Foreign Language" is offered every semester



## Water and Environmental Engineering (Master of Engineering)

## **Specialisations - Module Overview**

Urban Hydraulics					Hydrosystems - Focus on Surface Systems				Water Treatment				Utility Management an Construction Sites	Ecology / Ecological engineering					
Code	Module	Lan- guage	ECTS	Code	Module	Lan- guage	ECTS	Code	Module	Lan- guage	ECTS	Code	Module	Lan- guage	ECTS	Code	Module	Lan- guage	ECTS
emeste	r 8 (Spring term)																		
VAL ENERG	Thermodynamic Approach to Treatments	FR	2	HYDROM OD1	Modelling Tools for Water Resource Management 1	FR	2	VAL ENERG	Thermodynamic Approach to Treatments	FR	2	VAL ENERG	Thermodynamic Approach to Treatments	FR	2	HYDROMO D1	Modelling Tools for Water Resource Management 1	FR	2
PGSSE	Water Sanitary Security Management plan	FR	3	HYDROM OD2	Modelling Tools for Water Resource Management 2	FR	2	PGSSE	Water Sanitary Security Management plan	FR	3	PGSSE	Water Sanitary Security Management plan	FR	3	HYDROMO D2	Modelling Tools for Water Resource Management 2	FR	2
YDRAUM OD	3D Modelling Hydraulics	FR	3	ECOSIG	GIS & Ecology : bases of competence "Trame verte"	FR	4	HYDRAU MOD	3D Modelling Hydraulics	FR	3	HYDRAUM OD	3D Modelling Hydraulics	FR	3	ECOSIG	GIS & Ecology : bases of competence "Trame verte"	FR	4
	Specialisation in Semester 8				SIE							•							8
emeste	r 9 (Autumn term)																		
PILOT	Public Performance Monitoring and Expertise	EN	3	GESTER	Territorial Management of	EN	6	PILOT	Service Organisation and Expertise	EN	3	PILOT	Service Organisation and Expertise	EN	3	GESTER	Territorial Management of	EN	6
MOD	3D Modelling for Sanitation and Drinking Water Supply	FR	3		the Environment and Risks			NOR MAL	Standardisation and Risk Evaluation	EN	3	NOR MAL	Standardisation and Risk Evaluation	EN	3		the Environment and Risks		
MOD ASS	Advanced Modelling for Sanitation	FR	3	GESER	Erosion and Solid Matter Transport	EN	2	TREAU C2	Drinking Water Treatment 2	EN	3	REAL TRAV	Contracts for the Public Sector	FR	3	INGECOL	Ecological engineering	FR	3
MOD AEP	Quality Modelling for Water Supply	FR	3	GES QUAL1	Contaminant Transport in Hydrosystems	EN	4	TREAU S2	Wastewater Treatment 2	EN	3	DIA GOUV	Diagnostics and Rehabilitation of Water Storage Infrastructure	FR	3	GME	Species and ecosystem managment	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	2	GES QUAL2	Management of Aquatic Natural Environments	EN	3	TREAU S3	Wastewater Treatment Modelling	EN	2	GEST PAT	Management of Potable Water Stewardship and Sanitation	FR	3	REX	Ecological restoration	FR	3
YDROMO D3	Management of Flooding Risks and 2D Urban Stream Flood Modelling	EN	3	HYDROM OD3	Management of Flooding Risks and 2D Urban Stream Flood Modelling	EN	3	MHY TREA	Modelling Hydrodynamic and Reactive Transfers in Constructed Wetland	EN	3	EXPLOIT	Operation of Systems	FR	3	ECOQUAN T	Theoretical and quantitative ecology	FR	3

Total ECTS Specialisation in Semester 9

PROTEC

Technological Project/

Company Project

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