

## Water and Environmental Engineering Degree (Master of Engineering) Module Overview 2020/2021

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	ode Module		Module
CALC SCIEN	Higher Mathematics and Scientific Calculations	3	ECOVI BIO	Life Sciences	3	MECA SOL	Civil Engineering 1	3	GC2 Civil Engineering 2 3			Speciali	sation ailed information on the next page)		
SOLVI BIO	Agronomy, Ecology and Microbiology	3	GENI PROC	Process Engineering	3	TREAU C1	Drinking Water Treatment	3	Specialisation (Compulsory electives)			The stud	dents have to choose between the follow	ing	
CHIM EAU	Water Chemistry	3		Pipe and Open Channel Hydraulics	3	TREAU S1	Wastewater Treatment	3	See 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	3	RESP2	Drinking Water Networks 2	3	VOY AGE Excursion		-	Water Treatment (in English) 24		24	
HYDRO LOG	Hydrology	3	RESP1	Drinking Water Networks 1	3	RESU2	Sewer Systems 2	3	PRO PLU	Multidisciplinary Project 2	3	Urban I	lydraulics		
HYDRO GEO	Hydrogeology	3	RESU1	Sewer Systems 1	3	METRO	Metrology	3	DECID AID	Financial Decision-Making in Engineering	3	Utility N Constru	Final Engineering Project		
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	Solid Waste 24			6 Months
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	INGEN INT	International Engineering (in English)	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	-	MANAG PRO	Advanced Project Management (in English)	3	
IANG1	Foreign languages*	3	LANG2	Foreign languages*	3	MET IER3	Knowledge of the Working World (Compulsory electives)	3	Practical Engineering  SPI Internship (SPI)  3 Months from May to July			MET IER4	Career Exploration and Preparation 3	-	
COM1	Career Exploration and Preparation 1	-	сом2	Career Exploration and Preparation 2	-	сомз	Personal and Professional Development 1	-			9	сом6	Personal and Professional Development 3	-	
MET IER1	Career Exploration Internship	-	MET IER2	On-Site Internship and Safety on Construction Sites	-							FLE	French as a Foreign Language (Offered for Incoming Students from Abroad)*	3	
		30			30		100 FOTO	30			30			30	30
							120 ECTS								

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 2020/2021

Urban Hydraulics					Hydrosystems - Focus on Surface Syst		Water Treatment	Utility Management and Construction Sites					Solid Waste							
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	
Semester 8																				
VAL ENERG	Thermodynamic Approach to Treatments	FR	3	HYDRO MOD1	Modelling Tools for Water Resource Management 1	FR	3	VAL ENERG	Thermodynamic Approach to Treatments	FR	3	VAL ENERG	Thermodynamic Approach to Treatments	FR	3	VAL ENERG	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	
	TS Specialisation in Semester	8			SIE.				SIE.										6	
Semester 9				1							ı									
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					
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					
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					
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		e			
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	(in French) Gestion traitement et valorisation des déchets (G				
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					
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					
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					
Total E0	TS Specialisation in Semester	9							·				·		24					

ENGEES - National School for Water and Environmental Engineering Strasbourg

Department of International Relations

www.engees.unistra.fr/en/

In English

1 quai Koch – F-67000 Strasbourg engees-ri@unistra.fr Last Update: 03/2019 ND