Faculty of Environmental Sciences

Study programme: **Environmental Modelling**
Type of study: **master degree programme**
Study form: **full time form of study**
Guarantor: **prof. Ing. Pavel Pech,CSc.**

St. year: 1 **2026/2027**

Code	Compulsory subjects	1st Semester winter						2nd Semester summer						Guarantee
		Le	Pr	FE	ECTS	Cr	Ex	Le	Pr	FE	ECTS	Cr	Ex	
ZVX148E	Applied Atmospheric Sciences	2	-	-	5	cr	ex							doc. Kyselý
TAZ06E	Applied Mathematics for Environmental modelling	2	2	-	6	cr	ex							doc. Gurka
ZVX146E	Environmental Hydraulics	2	1		5	cr	ex							prof. Pech
ZVX128E	Environmental Hydrology	2	2	-	6	cr	ex							doc. Máca
ZVX129E	Physical - Chemical Aspects of Processes in Environment	2	-	-	5	cr	ex							doc. Vach
ZVX118Z	Programming	2	2	-	4	cr	-							doc. Kuráž
ZGX124E	GIS II							2	2	-	5	cr	Ex	doc. Moudrý
ZVX130E	Groundwater Hydraulics							2	1	-	5	cr	ex	prof. Pech
ZVX131E	Hydraulic Modelling							2	1	-	5	cr	ex	prof. Matoušek
ZVX132E	Hydrodynamics in Porous Media							2	2	-	6	cr	ex	doc. Kuráž
ZVX133E	Hydrological Modelling							2	2	-	6	cr	ex	doc. Máca
ZVX134E	Numerical Methods							2	2	-	6	cr	ex	doc. Kuráž
ZVX152E	Methods in Envrionmental Epidemiology							2	2	-	4	cr	ex	Mgr. Urban, Ph.D.
ZXX107Z	Diploma Thesis Assignment							-	-	-	0	cr	-	Supervisor
Σ		12	7	0	31	6	5	10	8	0	37	8	7	68

Le = lecture
Pr = practical lecture
FE = field excursions (days)
ECTS = credits

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St. year: 2 **2026/2027**

Code	Compulsory subjects	3rd Semester winter						4th Semester summer						Guarantee
		Le	Pr	FE	ECTS	Cr	Ex	Le	Pr	FE	ECTS	Cr	Ex	
ZVX135E	Experimental Methods in Fluid Mechanics	2	1	-	5	cr	ex							doc. Chára
ZVX106Z	Hydraulic Modelling of River Flow	-	3	-	4	cr	-							Ing. Roub, Ph.D.
APZ08E	Modellining in Soil Science	2	2	-	6	cr	ex							prof. Kodešová
ZVX108Z	Presentation of Environmental Data	1	2	-	4	cr	-							prof. Hanel
ZVX137E	Transport of Contaminants in Atmosphere	2	-	-	5	cr	ex							doc. Vach
ZVX109Z	Applied Hydroinformatics							2	-	-	5	cr	-	doc. Zeman
ZVX138E	Flow in Atmospheric Boundary Layer							2	1	-	5	cr	ex	prof. Jaňour
ZXX116Z	Diploma Thesis WS	-	-	-	5	cr	-							Supervisor
ZXX121Z	Diploma Thesis SS							-	-	-	16	cr	-	Supervisor
Σ		7	8	0	29	6	3	4	1	0	26	3	1	55

Le = lecture
Pr = practical lecture
FE = field excursions (days)
ECTS = credits