

Study programme: **Geographic information systems and Remote sensing in Environmental Sciences**

 Type of study: **Bachelor study program**

 Study form: **full time form of study**

 Guarantor: **doc. Ing. Petra Šimová, Ph.D.**

St. year: 1		2019/2020													
Code	Compulsory subjects	Winter semester						Summer semester						Guarantee	
		Le	Pr	FE	ECTS	Cr	Ex	Le	Pr	FE	ECTS	Cr	Ex		
ZGX101E	Cartography and mapping I	2	2	-	6	cr	ex								Špatenková, D.Sc.
ZGX102E	Fundamentals of physical geography	2	-	-	5	cr	ex								Mgr. Kropáček, Ph.D.
ZGX103E	Geographic information systems I	2	2	-	6	cr	ex								doc. Šimová, Ph.D. Ing. Moudrý Ph.D.
ZXZ108Z	Introduction to the study	2	0	-	4	cr									doc. Skaloš
TAZ38E	Mathematics	2	2	-	5	cr	ex								prof. Němec, DrSc.
ZGX104E	Cartography and mapping II							2	2	-	6	cr	ex		Špatenková, D. Sc. Ing. Lagner
ZEX101E	Fundamentals of Ecology							2	1	-	5	cr	ex		prof. Šálek
ZGX105E	Geographic information systems II							2	2	-	6	cr	ex		doc. Šimová, Ph.D. Ing. Barták, Ph.D. Ph.D.
ZVX101E	Hydrology							2	1	-	5	cr	ex		doc. Máca
ZGX106E	Remote Sensing I							2	2	-	6	cr	ex		Mgr. Kropáček, Ph.D.
ZGZ109E	Statistics							2	2	-	6	cr	ex		RNDr. Hrach, Ph.D.
Σ		10	6	0	26	5	4	12	10	0	34	6	6		60

Le = lecture

ECTS = credits

Pr = practical lecture

Cr = credit

FE = field excursions (days)

Ex = exam

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St. year: 2		2019/2020													
Code	Compulsory subjects	Winter semester						Summer semester						Guarantee	
		Le	Pr	FE	ECTS	Cr	Ex	Le	Pr	FE	ECTS	Cr	Ex		
ZGX102Z	Bachelor Thesis Seminar	1	2	-	4	cr	-								doc. Šímová
ZGX107E	Geodatabases	1	2	-	5	cr	ex								doc. Šímová
ZGX101Z	Lidar data processing	1	2	-	5	cr	-								Ing. Moudrý, Ph.D.
ZGX111E	Programming for GIS and Remote sensing	1	3	-	5	cr	ex								Ing. Barták, Ph.D., Ph.D.
ZGX108E	Remote Sensing II	2	2	-	6	cr	ex								Mgr. Kropáček, Ph.D.
ZGX110E	Global navigation satellite systems							1	2	-	5	cr	ex		Ing. Moudrý, Ph.D.
ZGX103Z	Spatial data processing							1	2	-	5	cr	-		Ing. Gdulová
ZGZ109E	Statistics	2	2	-	6	cr	ex								RNDr. Hrach, Ph.D.
ZGX112E	Unmanned Aerial Systems in Environmental Sciences							1	2	1	5	cr	ex		Ing. Komárek, Ph.D.
	Optional courses				10						10				Type A and Type B
Σ		8	13	0	41	6	4	3	6	1	25	3	2		66

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St. year: 3		2019/2020													
Code	Compulsory subjects	Winter semester						Summer semester						Guarantee	
		Le	Pr	FE	ECTS	Cr	Ex	Le	Pr	FE	ECTS	Cr	Ex		
ZBX113E	Cadastre of Real Estates	2	1	-	5	cr	ex								Ing. Vlasák, Ph.D.
ZGX104Z	Citizen science & crowdsourcing	1	2	-	4	cr	-								Ing. Zářybnická, Ph.D.
ZGX105Z	Presentation of Bachelor Thesis	-	2	-	5	cr	-								doc. Šímová, Ph.D.
ZGX114E	Spatial analyses in environmental sciences -	1	4	-	6	cr	ex								doc. Šímová, Ph.D.
ZGX115E	Open data and GIS							0	2	-	5	cr	ex		Ing. Moudrý, Ph.D.
ZXX101Z	Bachelor Thesis	-	-	-	5	cr	ex								Supervisor
ZXX102Z	Bachelor Thesis							-	-	-	15	cr	-		Supervisor
	Optional courses				10						5				Type A and Type B
Σ		4	9	0	35	5	3	0	2	0	25	2	1		60

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