UNIVERSITETI - UNIVERSITY
"ISA BOLETINI"
MITROVICË

Institution Name	**UIBM**
Faculty/Department	**Geosciences/ Geology**
Name of study program	**Hydrogeology and Engineering Geology**
Qualification level according to KQF	**VII**
Name of degree or academic degree	**Master of Hydrogeology and Engineering Geology**
ECTS	**120**
The minimum duration of the program	**2**
Number of students per year	**15**
Accredited program up to	**2024**

Program objectives	**Objective 1:** The development of laboratory techniques and hydrogeology numerical model to analyze and interpret hydrogeology geochemistry and groundwater systems **Objective 2.** Describe the main hydro geochemical processes and parameters of groundwater in water-rock interaction environments (crystalline and sedimentary rocks). **Objective 3:** Identify and explain groundwater pollution, measurements of parameters for the transport of pollutants, sources of pollution and their rehabilitation. **Objective 4:** Develop technical rock parameters based on literature standards and comparisons and identify the basic rock types that an engineer can handle
Learning outcomes of the program	**1**. Students demonstrate a high level of proficiency in the general field of Hydrogeology and Engineering Geology. **2.** Integrate and use hydrogeological data to explore and evaluate the type, number, and nature of aquifer systems. **3.** Application of laboratory techniques and numerical hydrogeological model to analyses and interpret the hydrogeology and geochemistry of groundwater systems **4**. Describe the main hydro geochemical processes and parameters of groundwater in water-rock interaction environments (crystalline and sedimentary rocks). **5.** Identify and explain groundwater pollution, measurements of parameters for the transport of pollutants, sources of pollution and their rehabilitation. **6.** Define different methods with different materials, how geophysics is used in the investigation of a hydrogeological and engineering site. **7.** Know the technical parameters of rocks based on standards and literature comparisons and identify the basic types of rocks that an engineer can deal with. . **8.** Understand surface geological processes and how they affect engineering studies and critically evaluate the use of rocks based on their technical properties **9.** Understand, critically evaluate, and evaluate internal geological processes such as landslides, earthquakes and how they affect engineering studies

Year I						
Semester I			**Hours/week**			
Code	statute	Content	L	E	ECTS	**Professors**
401. IIb	C	Scientific research methodology	2	2	6	Ahmet Tmava
402. IIb	C	Engineering Geodynamics	3	2	7	Festim Kutllovci
403. IIb	C	Applied Hydrogeology	3	2	6	Sabri Avdullahi
404. IIb	C	Hydro-geochemistry	2	2	6	Flurije Sheremeti
405. IIb	E	Foundations and their Consolidation	2	2	5	Zenun Elezaj
406. IIb	E	Geophysical Well Logging	2	2	5	Afrim Koliqi
407. IIb	E	Groundwater protection	2	2	5	Sabri Avdullahi
408. IIb	E	Deposits of construction material	2	2	5	Sylejman Hyseni
409. IIb	E	Geo-technics	2	2	5	Zenun Elezaj
Semester II						
410. IIb	C	Geological-engineering Design	3	2	7	Zenun Elezaj
411. IIb	C	Groundwater Use	3	1	6	Sabri Avdullahi
412. IIb	C	Technical Petrography	3	2	7	Flurije Sheremeti
413. IIb	E	Project Management	2	2	5	Gani Maliqi
414. IIb	E	Mining Hydrogeology	2	2	5	Sabri Avdullahi
415. IIb	Z	Water Monitoring	2	2	5	Islam Fejza
416. IIb	E	Sedimentary basins and hydrocarbons	2	2	5	Naser Peci
417. IIb	E	GIS Applications	2	2	5	Naser Peci
418. IIb	E	Environmental Geochemistry	2	2	5	Behxhet Shala
Year II						
Semester III						
419. IIb	C	Neotectonics with Seism tectonic	2	2	6	Zenun Elezaj
420. IIb	C	Water Wells	3	2	7	Sabri Avdullahi
421. IIb	C	Applied geostatistics	3	2	7	Naser Peci
422. IIb	E	Hydrogeology of Kosova	2	2	5	Sabri Avdullahi
423. IIb	E	Geothermal Energy	2	2	5	Gani Maliqi
424. IIb	E	Drilling and Injection	2	2	5	Zenun Elezaj
425. IIb	E	Environment Mineralogy	2	2	5	Bedri Durmishaj
426. IIb	E	Groundwater Modelling	2	2	5	Sabri Avdullahi
427. IIb	E	Environment Protection	2	2	5	Behxhet Shala
Semester IV						
428. IIb	C	Field Practice	6	0	10	Sabri Avdullahi
	C	**Master Thesis**			**20**	

Cod	Status	Subject	Hours /Week			Professor
			L	E	ECTS	
Year I						
Semester I						
Semester II						
Year II						
Semester III						
Semester IV						
Year III						

Semester V						
Semester VI						