



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	<p>Objective 1: The development of laboratory techniques and hydrogeology numerical model to analyze and interpret hydrogeology geochemistry and groundwater systems</p> <p>Objective 2. Describe the main hydro geochemical processes and parameters of groundwater in water-rock interaction environments (crystalline and sedimentary rocks).</p> <p>Objective 3: Identify and explain groundwater pollution, measurements of parameters for the transport of pollutants, sources of pollution and their rehabilitation.</p> <p>Objective 4: Develop technical rock parameters based on literature standards and comparisons and identify the basic rock types that an engineer can handle</p>
Learning outcomes of the program	<ol style="list-style-type: none"> 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			Professors
Code	statute	Content	L	E	ECT S	
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	Sta tus	Subject	Hours /Week			Professor
			L	E	ECTS	
Year I						
Semester I						
Semester II						
Year II						
Semester III						
Semester IV						
Year III						

