ËRSITETI - UNIVERSITY
"ISA BOLETINI"
MITROVICË
Faculty of food technology

Course Outline Model (Syllabus)		
Faculty:	Faculty of Food Technology	
Name of study program:	Department of Technology	
Specialization:		
Level:	Bachelor	
The code of subject:		
Subject:	Monitoring of radioactive pollution	
Subject Status:	+	Compulsory
Semester:	+	winter
Total hours:	2+2	According to approved programe
ECTS:	4	According to approved programe
Schedule / Hall		
Academic year:	3rd year, V th semester	
Professor:	Prof. Asoc. Besire CENA	
Assistants:	Prof. Asoc. Besire CENA	
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BRIEF CONTENT OF SUBJECT	The main modules of the course Monitoring of radioactive pollution are: • Methods and ways of monitoring radioactive pollution, basic knowledge of radioactive pollutants. • Methods of taking samples for analysis. • The method of processing and forwarding the results as well as the sustainable creation of the database in the monitoring system.
AIMS	• The training of students of Technology in creating knowledge on the data base for both monitoring and analysis of radioactive pollutants of water, air and land. Training of students in the work and applied methods to react in cases of exceeding the allowed values with radioactive contamination of water, air and land.
EXPECTED LEARNING	❑ Upon completion of the course, students will be able to: a. To understand the basic phenomena of radioactive pollution; b. To gain knowledge about radioactive pollution monitoring equipment. c. To understand and be able to research activities in the field of monitoring. d. Practical-experimental knowledge. e. To select the devices and equipment necessary for monitoring radioactive pollution.

PROGRAM	**Weeks**	Topic
	Week - I	The atom and its nucleus.
	Week - II	Rrezatimi jonizues.
	Week - III	Nuclear energy and elementary particles.
	Week - IV	Radiation. The main laws of radiation.
	Week - V	Nuclear magnetic resonance.
	Week - VI	Natural radioactivity.
	Week - VII	First Test.
	Week - VIII	Artificial radioactivity.
	Week - IX	Nuclear reactions.
	Week - X	Nuclear fission.
	Week - XI	Nuclear reactors.
	Week - XII	Nuclear energy.
	Week - XIII	Depleted uranium.
	Week - XIV	Second Test.
	Week - XV	Radioactive leakage.
LITERATURE	Basic literature: 1. Sh. Dumani, Rrezatimi i mjedisit, Prishtine, 2016 2. M. Prascevic,. Buka u zivotnoj sredini, Univerzitet u Nisu, 2005. 3. Stephen T. Thornton&Andrew Rex, Modern Physics for Scientists and Engineers, third edition, Brooks/Cole, 2006. Supplementary literature: 4. S.Malaj, F.Hasani, B.Daci, Radiokimia, Prishtine 2017.	
TEACHING METHODOLOGY	Teaching will take place through lectures, exercises, case studies, individual and group interpretations, seminar work, periodic self-assessments, etc. Lectures. Seminar (the student together with the lecturer chooses a specific topic, prepares a written seminar and defends the seminar orally in the form of a mini-conference in front of the lecturer and colleagues). At the end of the semester, the lecturer publishes a collection of all the seminars and distributes them to the students	

	Contribution to student workload (which should correspond to student learning outcomes 1 ECTS credit = 25 hours)			
	Activity	**Hours**	**Day/Week**	**Total**
	Lectures	2	15	30
	Exercise sessions	2	15	30
	-	-	-	-
	Practical work and field exercises	2 2	2 2	4 4
	Consultation with the professor / assistant	1	3	3
	Colloquiums / seminars	1	3	3
	Independent tasks (work)	3	1	3
	Student self study time (in library or at home)	2	5	10
	Final exam preparation	2	5	10
	Time spent in assessment (tests, quizzes, final exams)	2	1	2
	Projects, presentations, etc.	1	1	1
	Total			**100 hours = 4ECTS**

EVALUATION

Evaluation methods [according to the Statute and Regulation of UMIB Studies]	
First Test Second Test	15% 15%
Practical test during exercises	10%
Interpretation and presentation of seminary work	10%
Tasks and essays during the semester	10%
Final exam	50%

ACADEMIC POLICIES	The student is obliged to follow lectures and exercises. Plagiarism and copying in exams are punishable according to the statute and other regulations of the university. The code of conduct applies to both students and teachers.

Mitrovica **Subject teaching professor:**

Prof. Asoc. Besire CENA

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(Name Surname)