



Course ID: HRH408	Course name: RADIATION PROTECTION		
Cycle: FIRST	Year: FOURTH	Semester: VIII	ECTS credits: 3
Course status: ELECTIVE		Total course hours: 45 Lectures: 30 Laboratory: 15	
Teaching participants:	Teachers and associates with expertise in the field to which the subject belongs		
Prerequisite for enrollment:	-		
Course aims:	The aim of the module is to explain to students protection from ionizing radiation, contamination and decontamination, as well as to draw attention to preventive measures in radiation protection in accordance with the legal basis.		
Thematic course units:	<ol style="list-style-type: none"> 1. Dosimetry 2. Exposure and radiation dose 3. Absorbed dose and determination of the absorbed dose constant 4. Maximum doses of radiation for the exposed population 5. Principles of internal dosimetry 6. Principles of radiation protection 7. ALARA program 8. Distance from the source and dose rate 9. Radiation protection of patients 10. Application of chemical substances in radiation protection 11. Radiological decontamination 12. Radiation prevention 13. Legal bases of radiation protection 		
Learning outcomes:	<p>Knowledge: Students will gain knowledge about protection against ionizing radiation.</p> <p>Skills: Ability to understand different radiation doses and protect against them.</p> <p>Competences: Ability to understand different radiation doses and protect against them.</p>		
Teaching methodology:	Lectures (oral presentation and interactive classes) Laboratory exercises		
Assessment methods and grading system¹:	Grading criteria		
		Criteria	Maximal score
	1.	Class attendance	5
	2.	Class activities	15
3.	Midterms	2 × 20	Required score 3 8 2 × 11

¹The grading structure for each subject is determined by the Council of the organizational unit before the beginning of the academic year in which the subject is taught as per Article 64, paragraph 6 of the Law on Higher Education of Sarajevo Canton

	4. Final exam	40	22
	Total	100	55
	Scores and grading		
	Score	Grade (BiH)	Grade (ECTS)
	< 55	5	F, FX
	55–64	6	E
	65–74	7	D
	75–84	8	C
	85–94	9	B
	95–100	10	A
Literature²:	Mandatory literature:		
	<ol style="list-style-type: none"> 1. S.Vallabhajosula, Molecular Imaging, Radiopharmaceuticals for PET and SPECT, Springer, 2009 2. M. J.Welch, C. S.Redvanly, Handbook of Radiopharmaceuticals, Radiochemistry and Applications, Wiley Inc.USA, 2003 3. A.Hebrang, R. Klarić-Čustović, Radiologija, Medicinska naklada, Zagreb, 2007 		
Literature²:	Supplementary literature:		
	<ol style="list-style-type: none"> 1. D.R. Dance, S.Christofides, A.D.A.Maidment, I.D. McLean, K.H. Ng, Diagnostic Radiology Physics, IAEA, Vienna, 2014 		

²The Senate of the higher education institution, as an institution, or the Council of the organizational unit of the higher education institution, as a public institution, determines by a special decision, which is published on its website before the beginning of the academic year obligatory, mandatory and recommended textbooks and manuals, as well as other recommended literature based on which exams are prepared and taken as per Article 56, paragraph 3 of the Law on Higher Education of the Sarajevo Canton