

### AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Radiation Sec	urity						
Course Code		OHS509 C		Couse Level S		Second Cycle	Second Cycle (Master's Degree)		
ECTS Credit	3	Workload	75 (Hours) Theo		3	Practice	0	Laboratory	0
diagr		diagnostic pur	The aim of this course is to know the harmful e diagnostic purposes on the patient, the employ protection in order to prevent or minimize thes			and the society			
Course Content		Radiation, rad	liation safety,	human ef	fects, radiatio	on protection			
Work Placement		N/A							
Planned Learning Activities and Teaching Methods		Explanat	tion (Present	ation)					
Name of Lecturer(s)									

Assessment Methods and Criteria							
Method	Quantity	Percentage (%)					
Midterm Examination	1	40					
Final Examination	1	60					

#### **Recommended or Required Reading**

1 Temel Radyoloji Tekniği, Prof.Dr.Tamer Kaya

Week	Weekly Detailed Course Contents						
1	Theoretical	Radiation protection principles					
2	Theoretical	Biological effects of radiation					
3	Theoretical	Radiation Dose and Units					
4	Theoretical	To know the design features of radiology departments Design features of rooms using ionized radiation					
5	Theoretical	Detectors and Dosimetry					
6	Theoretical	Personal Protective Measures					
7	Theoretical	Radiation Detection and Measurement					
8	Intermediate Exam	Midterm exam					
9	Theoretical	Radiation protection of patient, patient and environment					
10	Theoretical	Radiation protection methods in radiology					
11	Theoretical	Radiation use and radiation protection in pregnant women					
12	Theoretical	international organizations and authorities					
13	Theoretical	TAEK Radiation Safety Legislation					
14	Final Exam	Final exam					

## **Workload Calculation**

Activity	Quantity	Preparation	Duration	Total Workload			
Lecture - Theory	14	0	3	42			
Midterm Examination	1	15	0	15			



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Final Examination	1		18	0	18	
Total Workload (Hours)				75		
			[Total Workload (	Hours) / 25*] = <b>ECTS</b>	3	
*25 hour workload is accepted as 1 ECTS						

Learning	Outcomes
Learning	Outcomes

Learn	ing Outcomes			
1	Recognize radiation and its hazards.			
2	Learn radiation protection methods.			
3	Learn radiation measurement techniques			
4	Learns radiation protection methods of patients and t	heir	relatives	
5	Learns international organizations			

### Programme Outcomes (Occupational Safety and Health Interdisciplinary Master's Without Thesis)

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1	Sufficient knowledge accumulation in Mathematics, Physical Sciences and Occupational Health and Safety topics; the ability to implement theoretical and practical knowledge in these fields in order to solve and model Occupational Health and Safety problems.
2	The ability to detect, to identify, to formulate and to solve complicated problems in Occupational Health and Safety and related fields by choosing and implementing appropriate analysis methods.
4	The ability to improve, to choose, to use modern and technical tools required for Occupational Health and Safety applications and the ability to benefit from information technologies effectively.
5	The ability to design experiments so as to inspect Occupational Health and Safety problems, to carry out experiments, to gather data, to analyse results and to comment on results.
11	Information about effects of Occupational Health and Safety applications on health, environment and safety in universal and social extend; awareness about national and international legislative regulations and standards, awareness about legal conclusions of Occupational Health and Safety solutions.

# Contribution of Learning Outcomes to Programme Outcomes 1: Very Low, 2: Low, 3: Medium, 4: High, 5: Very High

	L1	L2	L3	L4	L5
P1	3	4	3	4	4
P2	5	4	5	5	5
P4	4	5	4	4	4
P5	5	5	5	5	5
P11	4	4	4	4	4