



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Radiation Safety							
Course Code		VCR528		Course Level		Second Cycle (Master's Degree)			
ECTS Credit	1	Workload	22 (Hours)	Theory	1	Practice	0	Laboratory	0
Objectives of the Course		To gain knowledge about to be protected patients and personnels from detrimental effects of radiaton, harmfull effects of radiation							
Course Content		effects of radiation, protection principles, the requirements for protection, safer way to take radiographs							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation)					
Name of Lecturer(s)									

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	30
Final Examination	1	60
Assignment	1	10

Recommended or Required Reading

1	1. Güzel, N., Yavru, N. Veteriner Genel radyoloji, Selçuk Ü. Vet. Fak. Yayınları, Konya 1997.
2	2. Thrall DE. Getting beter radiographs more safely: 15 Pearls in 15 Minutes. International Veterinary Information Servis. 2006.
3	3. Annals of the ICRP. Radiological protection in fluoroscopically guided procedures performed outside the imaging departement, 18 Mayıs 2011.

Week	Weekly Detailed Course Contents	
1	Theoretical	Features of X-rays and gamma rays
2	Theoretical	Somatic effects of X-rays and gamma rays
3	Theoretical	Genetic effects of X-rays and gamma rays
4	Theoretical	The protection of employees and the common aspects of the patient
5	Theoretical	Secondary radiation monitoring
6	Theoretical	X-ray machine accessories-1
7	Theoretical	X-ray machine accessories-2
8	Intermediate Exam	Mid-term exam
9	Theoretical	And the use of X-ray dosimeters
10	Theoretical	The acute effects of radiation
11	Theoretical	Effects of chronic radiation
12	Theoretical	Proper use of x-ray accessories
13	Theoretical	Selection of the appropriate dose and position
14	Theoretical	Clinical Case Study
15	Theoretical	Clinical Case Study
16	Theoretical	Clinical Case Study
17	Final Exam	Final exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	1	14
Assignment	1	1	1	2
Midterm Examination	1	2	1	3



Final Examination	1	2	1	3
Total Workload (Hours)				22
[Total Workload (Hours) / 25*] = ECTS				1
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

1	1. Knows the harmful effects of radiation.
2	2. Know the methods and equipment used for radiation protection
3	3. Can take precautions to protect himself, patients and the others while using the X-ray from radiation
4	To learn knowledge and propose suggestions on the area.
5	To find out and use resources about the profession in the area.

Programme Outcomes (Surgery (Veterinary Medicine) Master)

1	To be able to explain the knowledge about veterinary surgery in the expertise level.
2	2. To be able to comprehend veterinary surgery theoretically and practically.
3	3. To be able to use the information gained in the field, create solutions to problems that require expertise.
4	4. To be able to pursue the profession by being aware of the powers and responsibilities
5	5. To be able to have a relationship with other experts about problems outside of their area, as a member of the team contributes to the solution.
6	6. To be able to activate methods of production and use of scientific knowledge.
7	7. To be able to comprehend the master's degree information, identify public and animal health problem provides solutions and organizes events.
8	To be able to collect all sorts of data (field observations, produced scientific knowledge) in the field and evaluate for the purpose.
9	9. To be able to develop and use strategies about his field.
10	10. To be able to comprehend the needs of the country and the knowledge gained through the level of expertise of the region implements and take up the defense
11	11. To be able to identify and make rules to protect environmental health applications.
12	12. To be able to conceptualise events and facts related to the field of scientific techniques and methods that examine the comments on the results, problems, or method of analysis for the fictions, according to data obtained from the solution and / or provides an alternative treatment.
13	13. To be able to follow and use all the information which is updated in the field of (scientific knowledge, legislation, etc.).

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

	L1	L2	L3
P1	5	5	5
P2	5	5	5
P3	3	5	5
P4	2	5	5
P5	1	1	1
P6	2	4	4
P7	1	2	2
P8	1	1	1
P9	1	1	1
P10	1		3
P11	1	1	1
P12		3	3
P13	1	1	1

