

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	Medical Physics						
Course Code	TIP155 Couse		el	Short Cycle (Associate's Degree)			
ECTS Credit 3	Workload 75 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course The main aim of this course is to provide an understanding of the basic concepts and principles of physics. better in the vocational courses of students, especially in subjects involving Medical Imaging Techniques to understand their knowledge and skills in both theoretical and practical courses. to increase.							
Course Content Measurement, units, conversion between units, mechanical, force, moment, biomechanics, optical and biological vision, acoustic, biological hearing and sound, electricity, magnetism and electromagnetism, electricity and transmission in living organism, medical imaging methods, nuclear radiation use and living organism affect				netism,			
Work Placement	N/A						
Planned Learning Activities and Teaching Methods Exp			(Presenta	tion), Demonst	tration, Discus	ssion, Case Stud	y
Name of Lecturer(s)							

Prerequisites & Co-requisities

Equivalent Course TG105

Assessment Methods and Criteria			
Method		Quantity	Percentage (%)
Midterm Examination		1	30
Final Examination		1	45
Practice Examination		1	25

Recommended or Required Reading

Weekly Detailed Course Contents

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	2	2	56
Seminar	1	10	1	11
Midterm Examination	1	2	2	4
Final Examination	1	2	2	4
Total Workload (Hours)				
[Total Workload (Hours) / 25*] = ECTS				3
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

Programme Outcomes (Medical Imaging Techniques)			
1	THE ANATOMICAL STRUCTURE		
2	HUMAN PHYSIOLOGY		
3	APPLY FIRST AID FOR PATIENTS OR INJURIES		
4	MAKING RADIOGRAPHY AND FILM BATHROOM, PRINTING PROCESSES		
5	MAKING FLOROSCOPIC IMAGING		
6	MAKING THE MAMOGRAPHY TEST		
7	DOING ANGIOGRAPHY		
8	MAKING MAGNETIC RESONANCE IMAGING (MRI)		
9	MAKING COMPUTERIZED TOMOGRAPHY (CT) ANALYSIS		
10	DOING THE BONE MINERAL DANCEITOMETER (DEXA)		



	Course Information Form			
11	ULTRASONOGRAPHY (USG)			
12	GAMA CAMERA IMAGING			
13	RADIOTHERAPY SIMULATION AND APPLICATION			
14	RADIATION SAFETY AND RADIATION PROTECTION			
15	MAKING BUSINESS ORGANIZATION AND PROVIDING PROFESSIONAL DEVELOPMENT			
16	KEEPING RADIOLOGICAL ANATOMY			
17	KEEPING MEDICAL TERMS			
18	To be able to use modern Turkish language knowledge and language skills.			
19	To have knowledge about Atatürk's Principles and Revolution History			
20	To communicate at a basic level in a foreign language			
21	Knows cancer and its types. Know what needs to be done to prevent cancer			
22	To increase student's awareness of gender equality			
23	To have information about clinical biochemistry			
24	Knows the structure of proteins, carbohydrates and fats			
25	To know family planning methods			
26	To obey occupational ethic principals			
27	To know occupational ethics			
28	Understand the importance of teamwork			
29	The organizational chart of the institution will be able to understand.			
30	Will understand the importance of record keeping.			
31	To know the ethical dilemmas in health			
32	TTo gain educational and exploratory knowledge about control and protection against infectious diseases			
33	To evaluate the general condition of the patient or the injured to take the initiative			
34	To know the indications and contraindications of contrast agents			
35	To be able to use and maintain the right communication skills with patients and relatives			
36	To be able to communicate with colleagues, patient and patient relatives at therapeutic level			
37	To evaluate the behavior of patients and their relatives			
39	To have general information about health system			
40	To learn the rights and obligations of health workers			
41	Ability to gain theoretical knowledge about disaster recovery			
42	To gain practical knowledge about disaster recovery and to be able to use them in accordance with ethical principles			
43	To be able to explain the concepts related to substance abuse			
44	Identify the needs of individuals with substance addiction			
45	Working organization			
46	Prepare promotional material with ready template			
47	To be able to prepare personal web site			
48	Knows pharmacological agents. know how to apply the drugs according to the indications and contraindications			
49	To have knowledge about the effects of radiation on environment and human health.			
50	Knows the concepts of quality standards, quality, standardization, standards and accreditation in health.			
51	To know the rules of ergonomics			
52	To learn the rules of behavior in social and business life			
53	Ensuring the development of social sensitivity levels			
54	To use their personal knowledge, skills and experiences for the benefit of the society as a team			
55	Will be able to apply the basic tasks to use the operating system			
56	Demonstrate behavior by understanding the information given about health.			
57	Know the learning and teaching methods			
58	Will have the ability to prepare educational material and conduct effective training.			

