RADIOTHERAPY

1	Course Title:	RADIOTHERAPY
2	Course Code:	TGTZ204
3	Type of Course:	Compulsory
4	Level of Course:	Short Cycle
5	Year of Study:	2
6	Semester:	4
7	ECTS Credits Allocated:	3.00
8	Theoretical (hour/week):	2.00
9	Practice (hour/week):	2.00
10	Laboratory (hour/week):	0
11	Prerequisites:	None
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Öğr. Gör. İMREN DEMİR AKKUŞ
15	Course Lecturers:	Doç.Dr.Sibel K.Çetintaş Doç.Dr.Meral KURT Doç.Dr.Sürreya Sarıhan Doç.Dr.Candan Demiröz
16	Contact information of the Course Coordinator:	imrendemir@uludag.edu.tr
17	Website:	
18	Objective of the Course:	The aim of this course is information on Radiotherapy classrooms and to teach in the hospital.
19	Contribution of the Course to Professional Development:	THEORETICAL AND PRACTICAL APPROACHES SUPPORTING PROFESSIONAL DEVELOPMENT
20	Learning Outcomes:	
	1	According to the characteristics of radiation to explain the usage. Compare the benefits and hazards of radiation.
	2	Making Simulation Radiotherapy
	3	Applications to do is to ensure İnmobilizasyonu
	4	Making Individual Block Transactions
	5	Implement the Plan of Treatment
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21	Course Content:	

Course Content:

Week	Theoretical	Practice
1	Introduction to radiotherapy	Acquaintance
2	The structure of the substance, nuclear transformation and the production of x-ray	Reading, literature, diagnosis, treatment, observation devices
3	Clinical radiation generators, devices that are used in radiotherapy	Diagnosis, treatment, observation devices

4	Treatment planning, isodose distribution, patient data, adjustments and set-up	Immobilization procedures, diagnosis, treatment planning and computerized equipment to make observations
5	Treatment planning, patient data, adjustments and set-up	Immobilization procedures, diagnostic devices, making observations
6	Electron treatment	Individual Block Transactions, diagnosis, treatment, observation devices
7	Electron treatment	Individual Block Transactions, diagnosis, treatment, observation devices
8	Protection blocks, filters and bolus	Individual Block Operations
9	Protection blocks, filters and bolus	Individual Block Processing
10	Principles of radiation protection, dose limits and measures to be taken.	Radiation related laws, regulations and legislation related reading; Diagnosis, treatment, observation devices
11	Implementation of Treatment Plan	Immobilization procedures, diagnosis, treatment planning and computerized equipment to make observations
12	Implementation of Treatment Plan	Immobilization procedures, diagnosis, treatment planning and computerized equipment to make observations
13	Implementation of Treatment Plan	Immobilization procedures, diagnosis, treatment planning and computerized equipment to make observations
14	Implementation of Treatment Plan	Immobilization procedures, diagnosis, treatment planning and computerized equipment to make observations

22	Textbooks, References and/or Other Materials:	Khan FM, "The Physics of Radiation Therapy," D.Bryant and DG Kershaw 'A New Physics' Goodwin PN, Quimby EH, Morgan RH Physical Vincent T.DeVita, Jr..Samuel Heltman, Steven A. Rosenberg 'Principles and Practice of Oncology Cancer' Practice of Radiation Oncology'

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	14	2.00	28.00
Self study and preperation	0	0.00	0.00
Homeworks	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	12.00	12.00
Others	0	0.00	0.00
Final Exams	1	15.00	15.00
Total Work Load			83.00
Total work load/ 30 hr			2.77
ECTS Credit of the Course			3.00

TERM LEARNING ACTIVITIES	NUMBE	WEIGHT
Midterm Exam	1	40.00
Home work-project	0	0.00
Total	2	100.00

Success Grade	
Contribution of Final Exam to Success Grade	60.00
Total	100.00
Measurement and Evaluation Techniques Used in the Course	Measurement and evaluation are performed according to the Rules & Regulations of Bursa Uludağ University on Undergraduate Education.

24	**ECTS / WORK LOAD TABLE**

25	**CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS**															
	PQ1	**PQ2**	**PQ3**	**PQ4**	**PQ5**	**PQ6**	**PQ7**	**PQ8**	**PQ9**	**PQ10**	**PQ11**	**PQ12**	**PQ13**	**PQ14**	**PQ15**	**PQ16**
ÖK1	5	4	5	5	5	0	5	0	0	0	5	5	0	0	0	0

ÖK2	5	5	5	4	0	5	0	0	5	0	0	0	0	0	0	0
ÖK3	5	5	5	0	0	5	0	0	5	0	0	0	0	0	0	0
ÖK4	5	5	5	0	0	5	5	0	5	0	0	0	0	0	0	0
ÖK5	5	5	5	4	0	5	0	0	5	0	0	0	0	0	0	0

LO: Learning Objectives PQ: Program Qualifications

Contribution Level:	**1 very low**	**2 low**	**3 Medium**	**4 High**	**5 Very High**