

## Radiation Therapy Technology (BSc)

**Table 1: General Courses**

Code of the Course	Title of the Course	Number of Credits			Teaching Hours			Prerequisite or Concurrent
		Theoretical	Practical	Total	Theoretical	Practical	Total	
01	Islamic Basic Theoretical Lessons	4	–	4	68	–	68	–
02	Islamic Ethics	2	–	2	34	–	34	–
03	Islamic Revolution	2	–	2	34	–	34	–
04	Islamic History and Civilization	2	–	2	34	–	34	–
05	Familiarization with Islamic Texts	2	–	2	34	–	34	–
06	Persian Literature	3	–	3	51	–	51	–
07	General English	3	–	3	51	–	51	–
08	Physical Education 1	–	1	1	–	34	34	–
09	Physical Education 2	–	1	1	–	34	34	–
10	Population and Family Planning	2	–	2	34	–	34	–
<b>Total</b>					<b>22</b>			

**Table 2. Basic and Specialized Courses**

Code of the Course	Title of the Course	Number of Credits	Teaching Hours			Prerequisite or Concurrent
			Theoretical	Practical	Total	
11	Computer and IT	2	17	34	51	–
12	Mathematics	2	34	–	34	–
13	Physiology	3	34	34	68	–
14	Ethical and Legal Considerations	2	34	–	34	–
15	Radiation Physics	3	51	–	51	–
16	Radiotherapy Equipment	3	34	34	68	15
17	Histology	4	34	68	102	–
18	General Hygiene in the Radiotherapy Ward	1	17	–	17	–
19	Protection	2	34	–	34	15
20	Radiobiology	2	34	–	34	15
21	Nuclear Medicine	3	34	34	68	–
22	Principles of Measurement and Treatment Plans in Radiotherapy	3	34	34	68	–
23	Medical Terminology	2	34	–	34	–
24	Anatomy of Body Systems	2	34	34	68	–
25	General Pathology	2	34	–	34	–
26	Dosimetry	2	17	34	51	15
27	Fundamentals	2	34	–	34	15

	<b>of Oncology</b>					
<b>28</b>	<b>Research Methodology</b>	<b>2</b>	<b>34</b>	<b>–</b>	<b>34</b>	<b>–</b>
<b>29</b>	<b>Safety and Health</b>	<b>1</b>	<b>17</b>	<b>–</b>	<b>17</b>	<b>–</b>
<b>30</b>	<b>Pathology of Malignant diseases</b>	<b>2</b>	<b>34</b>	<b>–</b>	<b>34</b>	<b>26</b>
<b>31</b>	<b>Surface and Deep Topography</b>	<b>2</b>	<b>17</b>	<b>34</b>	<b>51</b>	<b>24</b>
<b>32</b>	<b>Radiology for Radiotherapy</b>	<b>1</b>	<b>17</b>	<b>–</b>	<b>17</b>	<b>20</b>
<b>33</b>	<b>Medical Imaging Techniques</b>	<b>3</b>	<b>34</b>	<b>34</b>	<b>68</b>	<b>–</b>
<b>34</b>	<b>Special Radiotherapy Techniques</b>	<b>2</b>	<b>34</b>	<b>–</b>	<b>34</b>	<b>–</b>
<b>35</b>	<b>Clinical Dosimetry</b>	<b>2</b>	<b>17</b>	<b>34</b>	<b>51</b>	<b>26</b>
<b>36</b>	<b>Treatment Plan for New Radiotherapy Techniques</b>	<b>2</b>	<b>17</b>	<b>34</b>	<b>51</b>	<b>22</b>
<b>37</b>	<b>Simulation and Localization</b>	<b>3</b>	<b>34</b>	<b>34</b>	<b>68</b>	<b>35</b>
<b>38</b>	<b>Physics in Brachytherapy</b>	<b>3</b>	<b>34</b>	<b>34</b>	<b>68</b>	<b>22</b>
<b>39</b>	<b>Evaluation of Imaging Clichés</b>	<b>2</b>	<b>34</b>	<b>–</b>	<b>34</b>	<b>34</b>
<b>40</b>	<b>Non-radiotherapy Treatment Alternatives</b>	<b>2</b>	<b>34</b>	<b>–</b>	<b>34</b>	<b>27</b>

41	Clinical Applications of Radiotherapy (1)	2	34	–	34	27
42	Clinical Applications of Radiotherapy (2)	2	34	–	34	41
43	Oncology in Children	1	17	–	17	41
44	Brachytherapy Techniques	1	17	–	17	41
45	Treatment Trend and Essential Care in Cancer Patients	2	34	–	34	27
46	Modeling (Molding and Fixator Construction)	2	34	–	34	–
47	Psychology of Cancer Patients	2	17	34	51	–
48	Specialized English	2	34	–	34	07
49	Quality Control	2	34			
<b>Total</b>		<b>84</b>				

**Table 3. Apprentice Courses**

Code of the Course	Title of the Course	Number of Credits			Teaching Hours		
		Theoretical	Practical	Total	Theoretical	Practical	Total
		1	1	1	1	1	1

<b>50</b>	<b>Apprenticeship (1)</b>	–	<b>12</b>	<b>12</b>	–	<b>612</b>	<b>612</b>
<b>51</b>	<b>Apprenticeship (2)</b>	–	<b>12</b>	<b>12</b>	–	<b>612</b>	<b>612</b>
<b>Total</b>			<b>24</b>	<b>24</b>		<b>144</b>	<b>144</b>