



**Program: Medical Physics**  
**Degree Offered: Master \ Non-Thesis Track**

Plan Number		2007	
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## STUDY PLAN

### I. GENERAL RULES AND CONDITIONS:

- 1- This plan conforms to the regulations of the general frame of the higher graduate studies programs.
- 2- Areas of specialty of admission in this program:
  - a- Bachelor degree in Physics.
  - b- Bachelor degree in Applied Physics.
  - c- Bachelor degree in Medical Physics.
  - d- Bachelor degree in Radiation Physics.
  - e- Bachelor degree in Nuclear Engineering.

### II. SPECIAL CONDITIONS: None.

### III. THE PLAN: studying a total of (33) credit hours as follows:

#### 1. Obligatory Courses (24 credit hours):

Course No.	Course Title	Credit hrs.			Pre-request
		Theoretical	Practical	Total	
0302720	Anatomy and Physiology	2		2	-
0302722	Radiation Laboratory		3	1	0302765
0302733	Medical Electronics	1	1	2	-
0302740	Physics of Radiotherapy	3		3	0302765
0302746	Radiation Protection, Safety and Security	2		2	0302765 or simultaneous
0302765	Radiation Physics and dosimetry	3		3	-
0302766	Radiation Biology	2		2	0302765 or simultaneous
0302767	Ultrasound and Magnetic Resonance Imaging	2		2	-
0302768	Nuclear medicine	2		2	0302765
0302783	Physics of Diagnostic Radiology and Computed Tomography	3		3	0302765
0302791	Graduation Project	2		2	Training or simultaneous

**2. Elective Courses: Studying (9 credit hours) from the following:**

Course No.	Course Title	Credit hrs.			Pre-request
		Theoretical	Practical	Total	
0302742	Radiation Protection in Radiotherapy and Quality Assurance	2		2	0302740
0302743	Health Care Management: Accidents and Lessons Learned.	2		2	-
0302745	Calibration and Standardization	1		1	0302740
0302760	Lasers and Advanced Technologies in Medicine	1		1	-
0302763	Nuclear Physics-1	3		3	-
0302769	Brachytherapy Physics	2		2	0302740 or simultaneous
0302784	Computational Skills and Statistical Methods	3		3	-
0302786	Computers in Medicine	2		2	-
0302788	Signal Analysis	2		2	0302783
0302789	Digital X-ray Imaging	1		1	0302783
0302794	Special Techniques in Radiotherapy	3		3	0302740
0302795	Special Topics in Medical Physics	3		3	-
0302965	Accelerator Physics	3		3	-

3. **Training: (320 Credit hrs) in hospital (Accredited by the university for training purposes) as follows: (i)Radiotherapy (120 Practical hrs),(ii) Diagnostic imaging (120 Practical hrs) and (iii)Nuclear medicine (80 Practical hrs).A final report should be submitted by the student and assessed by the Department, on a pass/fail basis.**
4. **Pass the comprehensive examination (0302798) after successful completion of all courses.**