

1. Preparatory Year

Level 1

Course No.	Course Title	Unit			Prerequisites
		T	P	C	
CPIT 100	Computer Skills			3	---
ELI 101	English Language (1)			0	---
ELI 102	English Language (2)			2	---
PHYS 110	General Physics I	3	0	3	---
MATH 110	Calculus I	3	0	3	---
TOTAL CREDITS		11			

Level 2

Course No.	Course Title	Unit			Prerequisites
		T	P	C	
COMM 101	Communication Skills	3	0	3	---
ELI 103	English Language (3)			2	ELI 102
ELI 104	English Language (4)			2	ELI 103
BIO 110	Biology	3	0	3	---
CHEM 110	General Chemistry	3	0	3	---
STAT 110	Statistics	3	0	3	---
TOTAL CREDITS		16			

2. Other 3 Years

Level 3

Course No.	Course Title	Unit			Prerequisites
		T	P	C	
ARAB 101	Arabic Language (1)	3	0	3	---
PHYS 200	Lab. Safety	0	3	1	---
PHYS 202	General Physics II	3	3	4	PHYS 110 MATH 110
MATH 202	Calculus II	4	0	4	MATH 110
PHYS 203	General Physics III	3	3	4	PHYS 110
PHYS 281	General Physics Lab.	0	3	1	PHYS 110
TOTAL CREDITS		17			

Level 4

Course No.	Course Title	Unit			Prerequisites
		T	P	C	
ISLS 101	Islamic Culture (1)	2	0	2	---
CHEM 200	Lab. safety	0	3	1	CHEM 110
ANTM 207	Structural Anatomy	2	3	3	BIO 110
MPHY 231	Electricity and Magnetism	3	0	3	PHYS 202
PHYS 241	Modern Physics I	3	0	3	PHYS 202 MATH 202
PHYS 251	Mathematical Methods	4	0	4	PHYS 202 MATH 202
CHEM 281	General Chemistry Lab.	0	3	1	CHEM 110
TOTAL CREDITS		17			

Level 5

Course No.	Course Title	Unit			Prerequisites
		T	P	C	
ISLS 201	Islamic Culture (2)	2	0	2	ISLS 101
MPHY 321	Medical Imaging I	3	0	3	MPHY 231 PHYS 241 PHYS 251
PHYS 354	Quantum Mechanics I	3	0	3	PHYS 241 PHYS 251
MPHY 360	Radiation Physics and Dosimetry	3	0	3	MPHY 231 PHYS 241 PHYS 251
MPHY 381	Radiation Physics Lab.	0	3	1	MPHY 231 PHYS 241 PHYS 251
PHYS 461	Nuclear Physics	3	0	3	PHYS 241
XXXX XXX	Elective from outside the Dept.	3	0	3	---
TOTAL CREDITS		18			

Level 6

Course No.	Course Title	Unit			Prerequisites
		T	P	C	
ISLS 301	Islamic Culture (3)	2	0	2	ISLS 201
MPHY 322	Medical Imaging II	3	0	3	ANTM 207 MPHY 321 MPHY 360 MPHY 381
MPHY 341	Physics of Semiconductors	3	0	3	MPHY 231 PHYS 354
MPHY 362	Radiation Protection I	3	0	3	MPHY 360 MPHY 381
MPHY 371	Nuclear Medicine	3	0	3	MPHY 360 MPHY 381
MPHY 382	Medical Imaging Lab.	0	3	1	MPHY 321
XXXX XXX	Elective from outside the Dept.	3	0	3	---
TOTAL CREDITS		18			

Summer Semester

Course No.	Course Title	Unit				Prerequisites
		Th.	Pr.	Tr.	CH	
MPHY 390	Training I	0	0	6	2	Approval of the Department
TOTAL CREDITS		2				

Level 7

Course No.	Course Title	Unit			Prerequisites
		T	P	C	
ISLS 401	Islamic Culture (4)	2	0	2	ISLS 301
MPHY 410	Electronics and Instrumentation	3	0	3	MPHY 341 PHYS 354
MPHY 464	Radiobiology	3	0	3	BIO 110 MPHY 360 MPHY 381
MPHY 472	Radiotherapy Physics I	3	0	3	ANTM 207 MPHY 360 MPHY 381
MPHY 481	Electronics and Instrumentation Lab.	0	3	1	MPHY 341 PHYS 354
MPHY 482	Radiotherapy Physics I Lab.	0	3	1	ANTM 207 MPHY 360 MPHY 381
MPHY 4XX	Elective from Medical physics	3	0	3	*
TOTAL CREDITS		16			

Level 8

Course No.	Course Title	Unit			Prerequisites
		T	P	C	
ARAB 201	Arabic Language (2)	3	0	3	ARAB 101
MPHY 491	Graduation project	0	6	2	MPHY 322 MPHY 362 MPHY 371 MPHY 472
MPHY 492	Training II	0	6	2	Approval of the department
MPHY 4XX	Elective from Medical physics	3	0	3	*
MPHY 4XX	Elective from Medical physics	3	0	3	*
TOTAL CREDITS		13			

* Refer to table 3.C.6

3.C.6: Units for Elective Courses from Medical Physics Program:

No.	Course Title	Course Code / No.	Arabic Code	Units			CH	Prerequisites
				Th.	Pr.	Tr.		
1	Optics and Laser in Medicine الضوء والليزر في الطب	MPHY 412	ف ط 412	3	0	0	3	PHYS 203, PHYS 241
2	Magnetic Resonance Imaging التصوير بالرنين المغناطيسي	MPHY 423	ف ط 423	3	0	0	3	MPHY 321, MPHY 382 MPHY 383
3	Nanoscience in Medical Physics علم النانو في الفيزياء الطبية	MPHY 442	ف ط 442	3	0	0	3	PHYS 241, MPHY 342
4	Radiation Protection II الوقاية من الإشعاع 2	MPHY 463	ف ط 463	3	0	0	3	MPHY 362
5	Radiotherapy Physics II فيزياء العلاج الإشعاعي 2	MPHY 474	ف ط 474	3	0	0	3	MPHY 472
6	Computer Applications in Medical Physics تطبيقات حاسوبية في الفيزياء الطبية	MPHY 483	ف ط 483	2	3	0	3	CPIT 100, MPHY 321
7	Ethics for medical physics أخلاقيات الفيزياء الطبية	MPHY 494	ف ط 494	3	0	0	3	CPIT 100, COMM 101
TOTAL CREDITS				21				

3.C.7: Units for Compulsory Courses from other departments:

No.	Course Title	Course Code / No.	Arabic Code	Units			CH	Prerequisites
				Th.	Pr.	Tr.		
1	Lab. safety	CHEM 200	ك 200	0	3	0	1	CHEM 110
2	Anatomy	ANTM 207	تش 207	2	3	0	3	BIO 110
3	General Chemistry Lab.	CHEM 281	ك 281	0	3	0	1	CHEM 110
TOTAL CREDITS				5				