${\bf Master\ of\ Science\ in\ Physics-Medical\ Physics}$

	First Level						
Course			H	ours			
Code	Course Name	Theo.	Pract.	Train.	Accred.	Pre- Requis.	
	Ethics and Editing						
PHS	of scientific	۲	٠	•	۲	-	
	research						
PHS71.	Classical	٣	•		٣	_	
1113 ()	Electrodynamics	'				_	
PHSTII	Computational	۲			۲		
FIIS	Physics	,	•	•	,	-	
	Advanced						
PHSTIT	Quantum	٣			٣	-	
	Mechanics						
	No. of Units - 1. units						

	Second Level (Medical Physics)					
Course			Н	ours		
Code	Course Name	Theo.	Pract.	Train.	Accred.	Pre-
						Requis.
PHS\Y.	Nuclear Medicine	٣			٣	PHSTII
PH3 (1)	Physics	1	•	•	,	rns(11
	Advanced Topics					
DI ICE VA	in Radiation	٣				DUCELE
PHSTY	Detection and		•	•	٣	PHSTIT
	Dosimetry					
PHSTTT	Health physics	۲			۲	PHS71.
	Anatomy and					
PHS\Y	Physiology for	۲			۲	
PH3 (1)	Medical	,	•	•	١	-
	Physicists					
	No. of U	nits - ١	• units			

	Third Level (Medical Physics)						
			H	ours			
Course Code	Course Name	Theo.	Pract.	Train.	Accred.	Pre- Reques t.	
PHS٦Y٤	Medical imaging	٣			٣	PHS\Y.	
PHSTYO	Radiation Therapy Physics	٣	٠		٣	PHSTY	
PHSxxx	Elective course 1*				۲		
PHSxxx	Elective course **				۲		
	No. of U	nits – ١	• units				

Third Level (Medical Physics)- Elective Courses						
			Н	ours		
Course Code	Course Name	Theo.	Pract.	Train.	Accred.	Pre- Reques t.
PHS٦٢٦	Laboratory - Diagnostic Radiology and Nuclear Medicine		٦		۲	PHSTY. And PHSTY
PHSTYV	Accelerators for Medicine	۲	•	•	۲	PHSTY
PHSTYA	Advanced Topics of Non-ionizing- based Imaging Modalities	۲			۲	PHS٦٢٣
PHSTY9	Special Course	۲	•		۲	PHS٦٢٢

st Students should select two courses from elective courses group.

Fourth Level						
Course		Hours				
code	Course Name	Theo.	Pract.	Train.	Accred.	
PHS٦٩٩	Thesis	-	-	-	٩	
No. of Units - 4 units						

$Master\ of\ Science\ in\ Physics-Materials\ Science\ Physics$

	First Level								
Course			H	ours					
Code	Course Name	Theo.	Pract.	Train.	Accred.	Pre- Requis.			
PHST	Ethics and Editing of scientific research	۲			۲	-			
PHS71.	Classical Electrodynamics	٣			٣	-			
PHSTII	Computational Physics	۲	٠		۲	-			
PHSTIT	Advanced Quantum Mechanics	٣			٣	-			
	No. of U	nits - ١	No. of Units - 1 · units						

	Third Level ((Materials Science Physics)										
Course			Н	ours							
Code	Course Name	Theo.	Pract.	T	Accred.	Pre-					
Code		ineo.		Train.	Accred.	Requis.					
PHS	Surface physics of	٣			٣	PHS					
٦٣٤	materials	,	•	•	1	٦٣٠					
PHS	Nanomaterials	٣			٣	PHS					
740		'	•	•	,	٦٣.					
PHS	Elective course *	4			۲	PHS					
XXX	Liective course	,	•	•	,	XXX					
PHS	Elective course Y*	۲			۲	PHS					
XXX	Licetive course	'	•	•	'	XXX					
	No. of U	nits – ١	• units		No. of Units – 🕦 units						

	Second Level (Materials Science Physics)					
Course			H	ours		
Code	Course Name	Theo.	Pract.	Train.	Accred.	Pre-
						Requis.
	Fundamentals of					PHS
PHS	materials science	٣			٣	٦١.
٦٣٠		7	٠	·	,	PHS
						717
PHS	Thermodynamics					PHS
747	and equilibrium	٣			٣	٦١.
(1)	processes					
PHS	Semiconductors					PHS
747	and	۲			۲	717
111	nanostructures					
	Magnetism					
PHS ٦٣٣	materials in	۲			۲	-
PHS (11)	modern	,	•	•	١	
	technologies					
	No. of U	nits - 1	units			

Third	Third Level ((Materials Science Physics)- Elective Courses					
Course			H	ours		
Code	Course Name	Theo.	Pract.	Train.	Accred.	Pre- Requis.
PHS ٦٣٦	Dielectric properties of materials	۲			۲	PHS 788
PHS TYY	optoelectronic	۲	•		۲	PHS 777
PHS	Solar cell materials and devices	۲			۲	PHS 7my
PHS 789	Special Course	۲	٠	٠	۲	PHS xxx

 $[\]hbox{* Students should select two courses from elective courses group.}$

Fourth Level							
Course			Но	urs			
code	Course Name	Theo.	Pract.	Train.	Accred.		
PHS	Thesis	-	-	-	٩		
	No. of Units - [¶] units						

Coding courses

The course codes consist of literal as well as numerical classifications.

The literal classification refers to the section, and the numerical classification consists of three digits as follows:

- 1. The number at hundreds place indicates the year.
- Y. The number at tens place indicates the specialization.
- **r.** Last digit symbolizes the sequence of the course within the specific specialization of the department.

The meaning of the number at tens place in the coding of physics department courses

Specific Specialization	Numbers Indicators
Ethics and Editing of scientific research	•
Classical Electrodynamics- Computational Physics-Advanced Quantum	1
Mechanics	
Nuclear Medicine Physics- Advanced Topics in Radiation Detection and	۲
Dosimetry- Health physics- Anatomy and Physiology for Medical	
Physicists- Medical imaging- Radiation Therapy Physics- Laboratory -	
Diagnostic Radiology and Nuclear Medicine- Accelerators for Medicine-	
and Advanced Topics of Non-ionizing-based Imaging Modalities- Special	
Course	
Fundamentals of materials science - Thermodynamics and equilibrium	
processes - Semiconductors and nanostructures- Magnetism materials in	
modern technologies- Surface physics of materials- Nanomaterials-	٣
Dielectric properties of materials- Optoelectronic-Solar cell materials and	
devices Special Course	