Department of Physics Academic Course Description for Students Postgraduate Study

Master of Solid Physics and Materials									
First course				Second course					
Subject	Hours			Subject	Hours				
	THEO	Pract.	Units		THEO	Pract.	Units		
Quantum mechanic	3	-	3	Semiconductors	3	-	3		
Mathematical Physics	3	-	3	Nano	3	-	3		
Statistical Mechanics	2	-	2	Optional1	3	-	3		
Solid State Physics	2	-	2	Optional2	3	-	3		
Materials	2	-	2	English Language	1	-	1		
English Language	1	-	1	Research Writing Methods	1	-	fulfilled		
				Seminar	1	-	fulfilled		

Ph.D. in Solid Physics and Materials									
First course	Second course								
Subject	Hours			Subject	Hours				
	THEO	Pract.	Units		THEO	Pract.	Units		
Advanced Quantum Mechanics	3	-	3	Advanced Nano	3	-	3		
Advanced Mathematical Physics	3	-	3	Advanced Materials	3	-	3		
Advanced solid-state physics	3	-	3	Optional1	2	-	2		
Semiconductors	3	-	3	Optional2	2	-	2		
English Language	1	-	1	Optional3	2	-	2		
Seminar	1	-	fulfilled	English Language	1	-	1		
				Seminar	1	-	fulfilled		
				Research Writing Methods	1	-	fulfilled		

First course				Second course				
Subject	Hours			Subject	Hours			
	THEO	Pract.	Units		THEO	Pract.	Units	
Quantum mechanic	3	-	3	Advanced Nuclear	3	-	3	
Mathematical Physics	3	-	3	Advanced Quantum Mechanics	3	-	3	
Statistical Mechanics	2	-	2	Optional1	3	-	3	
Electrodynamics	2	-	2	Optional2	3	-	3	
Classical mechanic	2	-	2	English Language	1	-	1	
English Language	1	-	1	Research Writing Methods	1	-	fulfille	
		•	•	Seminar	1	-	fulfille	

Master of Laser and Electro-Optics								
First course			Second course					
Subject Hours				Subject	Hours			
	THEO	Pract.	Units		THEO	Pract.	Units	
Quantum mechanic	3	-	3	Advanced laser	3	-	3	
Mathematical Physics	3	-	3	Advanced Optics	3	-	3	
Electo. optics	2	-	2	Optional1	3	-	3	
Electromagnetic theory	2	-	2	Optional2	3	-	3	
Statistical Mechanics	2	-	2	English Language	1	-	1	
English Language	1	-	1	Research Writing Methods	1	-	fulfilled	
	_	_	_	Seminar	1	-	fulfilled	

First course				Second course				
Subject	Hours			Subject	Hours			
	THEO	Pract.	Units		THEO	Pract.	Units	
Quantum optics	3	-	3	Quantum mechanic	3	-	3	
Advanced Mathematical Physics	3	-	3	Electrodynamics	3	-	3	
Nonlinear optics	2	-	2	Advanced Spectra	2	-	2	
Advanced Laser	2	-	2	Laser design	2	-	2	
Advanced optics	2	-	2	Optional 1	2	-	2	
English Language	1	-	1	English Language	1	-	1	
				Seminar	1	-	fulfille	
				Research Writing Methods	1	-	fulfill	