



PHYSICS PhD Program (on MSc)

REMEDIAL COURSES				
Dept.	Code	Course Name	CR.	ECTS
PHYS	104	Physics III	NC	
PHYS	203	Statistical Physics	NC	
PHYS	204	Classical Mechanics	NC	
PHYS	205	Introduction to Optics	NC	
PHYS	206	Mathematical Methods in Physics	NC	
PHYS	303	Introduction to Metrology	NC	
PHYS	304	Applied Metrology	NC	
PHYS	306	Photonics	NC	
PHYS	311	Quantum Mechanics	NC	
PHYS	317	Electromagnetism	NC	
PHYS	319	Modern Physics	NC	
PHYS	401	Metrology and Calibration Lab.	NC	
PHYS	408	Nuclear and Plasma Physics	NC	
PHYS	409	Medical Physics	NC	
PHYS	412	Condensed Matter Physics	NC	
PROGRAM COURSES				
Dept.	Code	Course Name	CR.	ECTS
PHYS	5/6xx	Departmental Elective I	3	10
PHYS	5/6xx	Departmental Elective II	3	10
PHYS	5/6xx	Departmental Elective III	3	10
PHYS	5/6xx	Departmental Elective IV	3	10
PHYS	5/6xx	Departmental Elective V	3	10
	5/6xx	Free Elective I	3	10
	5/6xx	Free Elective II*	3	10
PHYS	690	PhD Seminar	NC	12
PHYS	691	Independent Study for Qualifying Exam	NC	30
PHYS	700	PhD Dissertation	NC	150
		TOTAL	21	262
EXTRA/NON-DEGREE COURSES				
Dept.	Code	Course Name	CR.	ECTS
		Extra/Non-degree	NC	

* If a student did not take a research methods/methodologies course during MS work, he/she shall take one of the courses in Research Methodologies instead of Free Elective II.

Course Group	Description
Departmental Elective I - V	Any course that is in the department courses pool of the Physics Department PHYS 611, PHYS 544, PHYS 553, PHYS 523, PHYS 547, PHYS 535, PHYS 685, PHYS 542, PHYS 556, PHYS 551, PHYS 651, PHYS 521, PHYS 514
Free Elective I - II	Unrestricted, by approval of advisor and any course that is in the department courses pool of the Physics Department PHYS 621, PHYS 632, PHYS 654, PHYS 656, PHYS 536, PHYS 561, PHYS 511, PHYS 512, PHYS 522
Research Methodologies	PHYS 514.
Extra/Non-degree	Optional non-credit (NC) courses that are not part of the program
Remedial Courses	Undergraduate level courses offered by department.