Master & Doctor of Philosophy Programs in Applied Physics

Research Fields

Computational Condensed Matter Physics Experimental Condensed-Matter Physics Microfluidic Physics Plasma and Beam Physics Laser Cooling and Trapping of Neutral Atoms Atmospheric Physics Astrophysics



Master of Science Program in Applied Physics

Type 2 (Plan A Type A2)

Degree Requirements Total			a minimum of	38	credits
Α.	Coursework		a minimum of	26	credits
	1. Graduate courses		a minimum of	26	credits
	1.1 Field of concentration courses		a minimum of	26	credits
	1.1.1 Required cou	irses		17	credits
	217701 Mechanics for Applied Physics217703 Quantum Mechanics for Applied Physics217705 Electromagnetism for Applied Physics			3	credits
				3	credits
				3	credits
	217707	Computational Methods and	Microcontroller for	2	credits
		Physics Problems			
	217708	Advanced Research Instrum	ents and Data Analysis	2	credits
	217717	Computational Methods and	Microcontroller for	1	credit
		Physics Problems Laboratory	/		
	217718 Advanced Research Instruments and Data Anal		ents and Data Analysis	1	credit
		Laboratory			
	217791	M.S. Seminar in Applied Phy	ysics 1	1	credit
	217792	M.S. Seminar in Applied Phy	ysics 2	1	credit
1.1.2 Elective courses			a minimum of	9	credits
A student may select any courses related to his/her thesis research from the follov					ne following

courses.

207741	Theory of Solids 1	3	credits
207742	Theory of Solids 2	3	credits
217726	Solar Cell Technology	3	credits
217733	Thermodynamics of Materials	3	credits
217734	Thermodynamics and Kinetics	3	credits
217746	Atomic and Molecular Physics	3	credits
217747	Gas Sensor Technology	3	credits
217751	Nanoscience	3	credits
217752	Nanotechnology	3	credits
217761	Atmospheric Physics	3	credits
217762	Atmospheric Modelling	3	credits

217763	Climate Change Assessment	3	credits
217773	Laser and Applied Optics	3	credits
217775	Optical Metrology	3	credits
217781	Radio Frequency Linear Accelerator	3	credits
217782	Ion Beam and Plasma Processing for Material	3	credits
	Modification		
217783	Electromagnetic Radiation from Relativistic Electrons	3	credits
217789	Selected Topics in Applied Physics	3	credits
217795	Special Problems in Applied Physics	3	credits

or select other graduate courses related to his/her thesis with an approval of his/her advisor and the Graduate Program Administrative committee from courses in graduate level in Physics (207...), Applied Physics (217...), Teaching Physics (225....) and Astronomy (226...).

	1.2 Other courses			-none-		
2.	Advanced undergraduate courses			-none-		
Th	esis					
	217799 Master's The	esis			12	credits
Non-credit Course						
1.	Graduate School's requirement	- a	foreign			
	language					
2.	Program's requirement	– none				

D. Academic Activities

Β.

c.

At least 1 master's thesis work or a part of master's thesis work must be published or at least accepted to publish in an international journal indexed in ISI or Scopus or Web of Science database or in a national journal listed in TCI Tier 1 database or as a full paper in an international conference's proceedings with the student as the first author.