

Master & Doctor of Philosophy Programs in 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



For more information,
please visit the following website.
www.physics.science.cmu.ac.th



Master of Science Program in Physics

Type 2 (Plan A Type A 2)

Degree Requirements Total	a minimum of	38	credits
A. Course work	a minimum of	26	credits
1. Graduate courses	a minimum of	26	credits
1.1 Field of specialization	a minimum of	26	credits
1.1.1 Required courses		23	credits
207701	Theoretical Mechanics	3	credits
207703	Quantum Mechanics 1	3	credits
207704	Quantum Mechanics 2	3	credits
207705	Classical Electrodynamics 1	3	credits
207706	Classical Electrodynamics 2	3	credits
207708	Thermodynamics and Statistical Mechanics	3	credits
207711	Theoretical Methods in Physics	3	credits
207791	M.S. Seminar in Physics 1	1	credit
207792	M.S. Seminar in Physics 2	1	credit
1.1.2 Elective courses	a minimum of	6	credits
A student may select any courses related to his/her thesis from the following courses			
207712	Research Conduction and Presentation in Physics	3	credits
207723	Computational Physics	3	credits
207724	Econophysics	3	credits
207727	Interactions of Ions with Matters	3	credits
207729	Microfluidics	3	credits
207741	Theory of Solid 1	3	credits
207742	Theory of Solid 2	3	credits
207743	X-Ray Crystallography 1	3	credits
207744	X-Ray Crystallography 2	3	credits
207745	Electronic Structure Theory and Calculations	3	credits
207761	Nuclear Physics 1	3	credits
207762	Nuclear Physics 2	3	credits
207765	Nuclear Technology and Applications	3	credits
207766	Nuclear Instruments and Methods	3	credits

207767	Beam Probe Characterization Techniques	3	credits
207768	Beam Physics	3	credits
207769	Accelerator Physics and Technology	3	credits
207775	Quantum Optics 1	3	credits
207776	Quantum Optics 2	3	credits
207777	Trapping and Cooling of Neutral Atoms	3	credits
207779	Quantum Field Theory	3	credits
207781	Astrophysics 1	3	credits
207782	Astrophysics 2	3	credits
207783	Physics of the Interstellar Medium	3	credits
207785	Cosmology	3	credits
207787	Observational Astronomy	3	credits
207794	Selected Topics in Physics	3	credits

or select other related field of concentration courses approved by his/her advisor and graduate program administrative committee

1.2 Other course -none-

1.2.1 Required courses -none-

1.2.2 Elective courses -none-

2. Advanced undergraduate course -none-

B. Thesis

207799	Master's Thesis	12	credits
--------	-----------------	----	---------

C. Non-credit course

1. Graduate School's requirement -a foreign language (English)-

2. Program's requirement -none-

D. Academic activities

The whole or part of a thesis must be published or accepted for publication in international journal or national journal in TCI Tier 1 database. Moreover, the publication(s) must be full paper(s) and at least one publication must have students's name as the first author.

Note : Course in the field of concentration are courses in graduate level in Physics (207...), Applied Physics (217...), and Astronomy (226)