Master Program in Applied Geophysics

Research Fields

Sesimic Method Magnetic Method Gravity Method IP/Resistivity Methoc GPR Method



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



Master of Science Program in Applied Geophysics (International Program)

Type 1 (Plan A Type A1)		
Degree Requirements	36	credits
A. Thesis		
212797 Master's Thesis	36	credits
B. Academic Activities		

- (1) A student has to organize and present a seminar on his/her thesis progress for at least 2 times.
- (2) The whole or part of a thesis must be published or accepted for publication in an international journal, which is, listed in international database with student's name as the first author for at least 1 paper and at least 1 master's thesis work or a part of master's thesis work must be presented in an international conference accepted by the field of study.
- (3) A student has to report thesis progression to the Graduate School every semester, for approval by the Chairman of the Graduate Study Committee.

C. Non-credit Courses

- (1) Graduate School requirement: a foreign language
- (2) Program requirement : with approval of the Graduate Program Administrative Committee, the student may select courses related to his/her thesis

Type 2 (Plan A Type A2)

Degree Requirements	a minimum of	36	credits
A. Coursework	a minimum of	24	credits
1. Graduate courses	a minimum of	21	credits
1.1 Field of Specialization	a minimum of	18	credits
1.1.1 Required courses		9	credits
212701 Geophysical Processes of the	Earth	3	credits
212703 Geophysical Signal Analysis		3	credits
212791 Seminar in Applied Geophysic	cs 1	1	credit
212793 Geophysical Reading and Writ	ing	2	credits
1.1.2 Elective courses	a minimum of	9	credits
Student can enroll the followings co	ourses or the gradu	iate cou	urses that
newly opened in Applied Geophysics	s with the consent	of the	graduate
program administration committee.			
212711 Seismic Prospecting		3	credits
212712 Seismic Data Processing		3	credits
212713 Seismic Attribute Analysis		3	credits
212714 Seismic Data Interpretation		3	credits
212716 Seismic Anisotropy		3	credits
212721 Electrical and Electromagnetic	c Prospecting	3	credits
212731 Gravity and Magnetic Prospec	ting	3	credits
212741 Borehole Geophysics		3	credits
212752 Seismic Expression of Structur	ral Styles	3	credits
212781 Problems in Mining and Petro	leum Geophysics	2	credits
212782 Problems in Environmental a	nd Engineering		
Geophysics		2	credits

212783 Advanced Geophysical Apprenticeship		2	credits
212785 Risk and Economic Analysis of Prospects		3	credits
212789 Selected Topics in Applie	d Geophysics	3	credits
212792 Seminar in Applied Geoph	nysics 2	1	credit
212796 Special Problems in Appli		3	credits
1.2 Other courses (if any)	a maximum of	3	credits
1.2.1 Required courses			- Non -
1.2.2 Elective courses (if any)	a maximum of	3	credits
Other relevant graduated cou	rses in related disciplin	ies can	be taken
for credits with the consent of	the Graduate Program	n Admi	nistration
Committee. If student does not ta	ake other relevant grad	uated c	ourses in
related disciplines, he/she may en credits.	roll in any courses list	ed in 1.	1.2 for 3
2. Advanced undergraduate courses (if any)	a maximum of	3	credits
Advanced undergraduate courses ir	n related disciplines ca	an be t	taken for
credits with the consent of the Graduate Program Administration Committee. If			
student does not take advanced undergradate course, he/ she may enroll in any			
courses listed in 1.1.2 for 3 credits.		,	,
Thesis			
212799 Master's Thesis		12	credits
Non-credit Courses			
(1) Graduate School requirement : a foreign langu	lage		
(2) Program's requirement : A student without prior knowledge in Geology, Physics			
or Mathematics must take courses in Geology, Physics, and Mathematics by approval of the			
Graduate Program Administrative Committee or select	from the list below		
 For student with geology or other similar backgr 	ound		
212771 Mathematics and Physics	for Geophysicists	3	credits
 For student with physics or mathematics or other 	er similar background		
212773 Geology for Geophysicists		3	credits
Academic Activities			
(1) A student has to present the thesis progression at least once an academic year			
throughout the study period by the guid	delines from the Gr	raduate	Program
			-

Administrative Committee.

в.

C.

D.

(2) The whole or part of a thesis must be published or accepted for publication in an international journal, which is, listed in international database or presented in an international conference, which has proceedings with student's name as the first author for at least 1 paper.

Type 3 (Plan B)

1.71	Degree Requi	rements	a minimum of	36	credits
	A. Coursewor		a minimum of	30	credits
	1. Graduat	e courses	a minimum of	30	credits
	1.1 Fie	ld of Specialization	a minimum of	27	credits
	1.1.	.1 Required courses		6	credits
		212703 Geophysical Signal Analysis		3	credits
		212791 Seminar in Applied Geophysics	5 1	1	credit
		212793 Geophysical Reading and Writi	ng	2	credits
	1.1.	.2 Elective courses	a minimum of	21	credits
		Student can enroll the followings cou	urses or the gradu	ate cou	urses that
		newly opened in Applied Geophysics	with the consent	of the	graduate
		program administration committee.			
		212711 Seismic Prospecting		3	credits
		212712 Seismic Data Processing		3	credits
		212713 Seismic Attribute Analysis		3	credits
		212714 Seismic Data Interpretation		3	credits
		212716 Seismic Anisotropy		3	credits
		212741 Borehole Geophysics		3	credits
		212752 Seismic Expression of Structura	-	3	credits
		212785 Risk and Economic Analysis of	•	3	credits
		212789 Selected Topics in Applied Ge	-	3	credits
	1.2 Ot	212796 Special Problems in Applied G her courses (if any)	•	3 3	credits credits
		.1 Required courses	a maximum of	5	- Non -
		.2 Elective courses (if any)	a maximum of	3	credits
	1.2.	Student can enroll the followings of			
		Graduate Program Administration Con			
		other relevant graduated courses in rel			
		in any courses listed in 1.1.2 for 3 cred	•		
		205765 Petroleum Systems		3	credits
	2. Advance	ed undergraduate courses			- Non -
В.	Independent Stu	5			
		212798 Independent Study		6	credits
C.	Non-credit Cours				
	(1) Graduate School requirement : a foreign language				
	(2) Program requirement : Under the recommendation of the Graduate Program				Program
		Administrative Con			-
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D. Academic Activities

At least 1 independent study work or part of independent study work must be published in CMU Graduate Journal or in other academic publication approved by the field of study and the graduate school with the student as the first author.

E. Comprehensive Examination

Having submitted a request form to the Graduate School, approved by general advisor or major independent study advisor, a student must then complete a comprehensive examination.