

Course Detail
Master of Science program in Geographic Information Science

Course Title:	Master of Science in Geographic Information Science
Master Degree:	M.S. (Geographic Information Science)
Academic Institution:	Faculty of Agriculture Natural Resources and Environment
Duration:	2 years (June 2020 – May 2022)
Objectives:	To offer master degree courses in Geographic Information Science.

Course Synopsis and Methodology:

Graduates with an MSc degree in Geographic information Science will be able to:

1. Understand the range of spatial thoughts, be able to analyze, synthesize, evaluate and apply creative and critical thinking in solving applications in multidisciplinary areas in the context of geographical information systems and apply specialized knowledge of geographic information science to a wide range of disciplines effectively.
2. Develop intellectual skills in critical analysis and synthesis of information to support research themes using geospatial thoughts and examine geographical trends, apply advances in spatial information technologies and contribute to innovations in the spatial science industry by developing or creating geographic information system tools to contribute to the further academic and professional development of geographic information science.
3. Recognize, beware, and adapt to a range of applications of Geographic Information System (GIS) including the variations of geography and geographical information technologies that happens dynamically at the present time.
4. Possess an affective domain of a post graduate degree holder who is fully equipped with moral knowledge, responsibility, and ethical behavior for profession towards a more peaceful society.

Study plan (Plan A Type A1) 36 credits

Year	Semester 1	credits	Semester 2	credits
Year 1	104545 Research Methodology in Science and Technology (Non-credit)	3(3-0-6)	104546 Seminar 1 (Non-credit)	1 (0-3-1)
	104571 Thesis I Type A1	9	104572 Thesis 2 Type A1	9
Year 2	104547 Seminar 2 (Non-credit)	1 (0-3-1)	104574 Thesis 4 Type A1	9
	104573 Thesis 3 Type A1	9		

Course Description

104571 Thesis 1, Type A 1

Study the elements of thesis, literature review and related research, and determine thesis title.

104572 Thesis 2, Type A 1

Develop concept paper and prepare the summary of literature review and related research synthesis.

104573 Thesis 3, Type A 1

Develop research instruments and research methodology and prepare thesis proposal in order to present it to the committee.

104574 Thesis 4, Type A 1

Collect data, analyze data, prepare progress report in order to present it to the thesis advisor, and prepare full-text thesis and research article in order to get published according to the graduation criteria.

104545 Research Methodology in Science and Technology

Definition and objectives of research, research process, research categorization, statement of problem; variables, hypothesis, experimental design, data collection and data analysis are discussed; applications of computer and statistical program for database management and data analysis for geographic information science research; proposal, report and manuscript writing; evaluation of research and research ethics.

104546 Seminar 1

Issue identifying, selecting, and reading skill of academic publications in geography, geographic information science, surveying, mapping, and related fields; analyze and understand academic publications.

104547 Seminar 2

Techniques for oral and poster presentation for technical or academic papers; a formal presentation of academic articles related to thesis; and performing oral presentation.

Course Content

This course is a Master's degree by research (thesis). Students need to take 36 credits for thesis concerning Geographic Information technologies and applications within 2 years.

Graduation Conditions:

1. Follow the study plan as scheduled.
2. Enroll in all courses as specified.
3. Pass the English examination requirement specified by the university.
4. Propose the thesis and pass the oral examination.
5. The thesis or part of a thesis must be published as a research article in an international journal based on ISI Web of Science or Scopus.

Applicant Qualifications

Applicants must be holding a Bachelor's degree in Geography, Geographic Information Science and Geoinformatics or a Bachelor of Science degree in related fields which uses GIS and Remote Sensing as tools in their curriculums from an accredited college or university. Applicant's work experience will be special criteria to consider. The program admissions committee makes all admission recommendations on case-by-case basis.

Document Required

1. Original undergraduate transcript
2. Grade point average of 2.75 or higher
3. Two letters of recommendation
4. TOEFL (for student non-English speaking institutions)
 - Computer based: 213
 - Paper based: 550
 - iBT: 80 and IELTS: 6.5
5. Proposed Research Proposal (maximum 2 pages of A4 paper size) :
 - Research Question
 - Purposes of Research
 - Research Framework
 - Expected Results
 - Methodology
 - References

Contact:

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***The application procedure will complete when TICA has received the hard copy of the application form and other related documents through the Royal Thai Embassy/Permanent Mission of Thailand to the United Nations/Royal Thai Consulate – General accredited to eligible countries/ territories.