



DOCTOR OF PHILOSOPHY PROGRAM IN INFORMATION TECHNOLOGY

■ FACULTY OF SCIENCE

DOCTOR OF PHILOSOPHY PROGRAM IN INFORMATION TECHNOLOGY

In today's knowledge economy, Information Technology plays a pivotal role in capturing all knowledge for processing and inventory in digital formats. The discipline is a science in its own right which emerged from Mathematics.

Our Ph.D. Program is offered with concentrations in a continuum of knowledge from Representation and Reasoning, more symbolic and philosophical, to Geo-informatics and GIS, the other extreme of applied technology to the physical world.

Research facilities/resources are provided for student access, namely, a graduate student research room, state of the art PCs and Macs capable of multimedia production and several laser printers, mobile devices (IOS and Android), on-line publishing resources, such as IEEE, ACM, Spring and/or Science Direct, and specialized library collections.

Research quality indicators are evident in the faculty publications in world-class journals, such as, *Expert System with Applications*, *IEEE Transactions Biomedical Circuits and Systems*, *IEEE Transactions on Multimedia*, *IEEE Transactions on Journal Microwave Theory and Techniques*, *IEEE Sensors*, and the *Journal of Computing in Civil Engineering*.

Faculty members consistently receive research grants from both internal and external funding agencies, for example, the National Research Council of Thailand.



Objectives

Desirable characteristics of graduates are as follows:

- Knowledgeable with in-depth understanding of principles and theories in Information Technology.
- Able to develop new innovation or create new knowledge beneficial to the profession.
- Skillful and competent in rational analysis and holistic thinking.
- Capable of analyzing and synthesizing data for solutions of academic and professional issues.
- Inquiry-minded and acknowledged as a leader in advanced technology of international standards.
- Responsible, ethical, and moral in functioning as an information technologist.

Admission

In accordance with the Graduate School Rules and Regulations. The program committee reserves the rights to require more qualifications as deemed appropriate.



Medium of Instruction

Thai and English

Research Focus

- Knowledge Representation and Reasoning
- Mobile Computing
- Business Intelligence for Enterprise System
- Technology for Community Development
- Geo-informatics and GIS
- Intelligent and Adaptive Systems
- Visual Information Processing
- Human Centered Computing

Requirement for Graduation

In accordance with the Graduate School's Rules and Regulations with added requirements.

Option 1

Publications of the dissertation or a part of it with at least three articles in the following:

- 1 – Journal in ISI database.
- 2 – Journal in ISI database or an international journal.
- 3 – Academic journal or presented in an international conference with peer-reviewed proceedings.

Option 2

Requirements of option 2.2 are the same as option 1. However, option 2.1 omits number 3. once.