

# PROGRAM STRUCTURE

<b>LEVEL</b>	: Graduate
<b>SCHOOL</b>	: School of Information Technology
<b>PROGRAM</b>	: 617150122 : Doctor of Philosophy Program in Computer Engineering (Plan 2.2)
<b>PROGRAM YEAR</b>	: 2561

## PHILOSOPHY

This program intends to deliver doctoral level researchers, lecturers and engineers in computer engineering field to support rapid change in technology which is significantly affecting economic, social and environment. The graduates will have ability in research and development of new technologies or solutions to solve national and ASEAN engineering problems with adequate ethics. The program also implants student to have sense in lifelong learning and technology follow-up especially in his/her related fields. In addition, the graduates will have skill in teaching, transferring and servicing appropriate academic contents to support sustainable development for the whole country.

### 1 Required Course MINIMUM CREDIT : 12

Course Code	COURSE	CREDIT
<a href="#"><u>1501501</u></a>	Mathematics for Computer Engineering	3 (3-0-6)
<a href="#"><u>1501502</u></a>	Probability and Stochastic Process	3 (3-0-6)
<a href="#"><u>1501905</u></a>	Research Methodology in Computer Engineering	3 (3-0-6)
<a href="#"><u>1501906</u></a>	Preliminary Research for Dissertation	3 (3-0-6)

### 2 Elective Course MINIMUM CREDIT : 12

Course Code	COURSE	CREDIT
<a href="#"><u>1501706</u></a>	Context Aware Computing	3 (3-0-6)
<a href="#"><u>1501707</u></a>	Cyber Security	3 (3-0-6)
<a href="#"><u>1501912</u></a>	Embedded System Design and Sensor Technology	3 (3-0-6)
<a href="#"><u>1501913</u></a>	Intelligent Control Systems	3 (3-0-6)
<a href="#"><u>1501914</u></a>	Sensor network and IoT	3 (3-0-6)
<a href="#"><u>1501915</u></a>	Algorithms in Signal Processing	3 (3-0-6)
<a href="#"><u>1501916</u></a>	Network Convergence	3 (3-0-6)
<a href="#"><u>1501917</u></a>	Artificial Intelligence and Machine Learning	3 (3-0-6)

3 Dissertation MINIMUM CREDIT : 48

Course Code	COURSE	CREDIT
<u>1501932</u>	Dissertation	48 (0-144-0)

**REMARKS**

P : Prerequisite Course

E1 : One-way Equivalent

E2 : Two-way Equivalent

รายวิชา 1006393 Principles of Translation 3(3-0-6) ในกรณีที่นักศึกษาไม่สามารถใช้ภาษาไทยได้ ให้เรียนรายวิชา 1006382 Directed Studies แทน

รายวิชา 1006397 Comparative Study of English and Thai 3(3-0-6) ในกรณีที่นักศึกษาไม่สามารถใช้ภาษาไทยได้ ให้เรียนรายวิชา 1006381 Selected Reading แทน