

Ph.D. CS DOCTOR OF PHILOSOPHY IN COMPUTER SCIENCE

3-YEA OGRAM THESIS OPTIONS (DISSERTATION)

The Doctor of Philosophy Program in Computer Science will serve to

- Propare researchers in the field of computer science who are capable of developing new computing technology.
- Produce highly knowledgeable university Instructors in the field of computer science whose in-depth understanding of the knowledge critical thinking, and ability to assimilate new knowledge into their instruction will lead to the development of high quality computer scientists.



ADMISSION SCHEDULE 2017 / 2018

Admission Schedule	Semester 1/2017 (August - December 2017)	Semester 2/2017 (January - May 2018)	Semester 1/2018 (August - December 2018)	Semester 2/2018 (January - May 2019)
Application Period	July 21, 2017	December 16, 2017	July 21, 2018	December 15, 2018
AU English iency Test	July 22, 2017	December 17, 2017	July 22, 2018	December 16, 2018
Examination Interview	July 22, 2017	December 20, 2017	July 24, 2018	December 18, 2018
AU Entrance Results	July 24, 2017	December 23, 2017	July 26, 2018	December 20, 2018
Registration Period	July 26 - August 11, 2017	January 3-13, 2018	July 30 - August 11, 2018	January 7-14, 2019
Instruction Begins	August 7, 2017	January 8, 2018	August 7, 2018	January 7, 2019

ADMISSION REQUIREMENTS OUALIFICATION FOR ADMISSION

Admission to the program is granted to applicants

1. Type 2.1: Coursework and Dissertation (Master's degree holder)

Master's degree in Computer Science or equivalent, or in other related technical fields, from the institutions accredited by the Ministry of Education, Thailand or by the official accreditation organization of the country where the institution is based.

Type 2.2: Coursework and Dissertation (Bachelor's degree holder)

Bachelor's degree in Computer Science or equivalent, or in other related technical fields, from the institutions accredited by the Ministry of Education, Thailand or by the official accreditation organization of the country where the institution is based.

- 2. GPA of at least 3.25 on a scale of 4.0, or equivalent
- 3. Three recommendation letters from lecturers or emplovers

- ENTRANCE REQUIPEMENTS

 1. A completed appl fath n form
- 2. Official transcript or me previous university
- r's degree certificate for Type 2.1 or Bachelor's degree certificate for Type 2.2
- 4. Citizen Identification Card and Residence Registration - For Thai Applicants (2 copies)
- 5. Passport For Non-Thai Applicants (2 copies)
- 6. Photographs formal attire, not in graduation gown (Six, 1x1-inch size)
- 7. Letter of recommendation from former instructors or employers at the time of the application (3 letters)

Note: All documents must be endorsed with signature and submitted in person within the last day application period. Otherwise, the application will not be considered and the applicant will not be allowed for the Admission interview.

DURATION: 3 years

ADMISSION FFF

Admission Fee Baht 500 AU English Proficiency Test Baht 500 and Interview

EXEMPTION

The AU English Proficiency Test can be exempted depending on which of the following conditions vou satisfy.

- a TOEFL score of (iBT) 90 or an IELTS (Academic) score of at least 6.5 (Validation: Two years)
- a Bachelor's degree or a higher degree from native English speaking countries (e.g. USA, Canada, UK, and New Zealand)

STUDY SYSTEM

1st semester August - December 2nd semester January - May

CLASS HOURS

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<u>Luck Campus</u>, Ramkhamhaeng 24 Road Mon. - Fri. 6.30 P.M. - 9.30 P.M. 9.00 A.M. - 5.00 P.M.

GRADUATION REQUIREMENTS

Type 2.1 and 2.2: Coursework and Dissertation · Have completed all the courses of the

curriculum · Have obtained a cumulative grade point average

- of at least 3.00
- · Have passed the proficiency test of English
- · Have passed the qualifying examination · Have passed the dissertation defense
- · Have the dissertation /part of dissertation published or obtained an acceptance of its publication in a national or international journal approved by the Academic Committee of the department. For Type 2.2, have the dissertation /part of dissertation published or obtained an acceptance of its publication in an additional international conference with peer review.
- · Have obtained library and financial clearance from the University
- · Have demonstrated good behavior and discipline

CURRICULUM STRUCTURE

Type 2.1 Coursework and Dissertation

(Masters Degree Holder)

Foundation Courses Non-Credit **Elective Courses** 12 Credits Dissertation 36 Credits Total 48 Credits

Type 2.2 Coursework and Dissertation

(Bachelors Degree Holder)

Required Courses 9 Credits Elective Courses 15 Credits Dissertation 48 Credits Total 72 Credits

STUDY PLAN FOR TYPE 2.1* **FIRST YEAR**

FIRST SEMESTER

Three Flective Courses

SECOND SEMESTER

One Elective Course Qualifying Examination

SECOND YEAR

FIRST SEMESTER

SC 9000 Dissertation

SECOND SEMESTER

SC 9000 Dissertation Prospectus Examination

THIRD YEAR

FIRST SEMESTER

SC 9000 Dissertation

SECOND SEMESTER

SC 9000 Dissertation Dissertation Examination

STUDY PLAN FOR TYPE 2.2 FIRST YEAR

FIRST SEMESTER

SC 6201 **Advanced Computing**

Systems SC 6202 Computability,

Complexity and Algorithms

Programming Languages SC 6212

and Compiler

SECOND SEMESTER

Three Elective Courses Qualifying Examination

SECOND YEAR

FIRST SEMESTER

Two Elective Courses Dissertation SC 9000

SECOND SEMESTER

SC 9000 Dissertation Prospectus Examination

THIRD YEAR

FIRST SEMESTER

SC 9000 Dissertation

SECOND SEMESTER

SC 9000 Dissertation

FORTH YEAR

FIRST SEMESTER

SC 9000 Dissertation

SECOND SEMESTER

SC 9000 Dissertation Dissertation Examination

IMPORTANT

The provisional information statements set forth in this catalog should not be construed as The provisional information statements set form in this calating strough one constitued as the basis of any contract between a student and this institution. As such Assumption University reserves the right to change any provision listed in this catalog, including, but not limited to academic requirements for graduation. Every effort through the Office of Graduate Studies, will be made to keep students advised of any such changes.

Last updated: March 2018

The University Registrar

COURSES

FOUNDATION COURSES (REQUIRED COURSES)

Advanced Computing Systems SC 6201 Computability, Complexity and Algorithms SC 6202 SC 6212 Programming Languages and Compiler

ELECTIVE COURSES

SC 6319 Computer Network and Internet Security SC 6324 Principles of Software Engineering SC 6360 Artificial Intelligence SC 6362 Data Mining Natural Language Understanding and Processing SC 6365 SC 6399 Graduate Seminar in Computer Science SC 6601 Cloud Computing and Big Data SC 6602 Data Analysis and Visualization SC 6603 Data Warehousing and Business Intelligences SC 6604 Database Management Systems SC 6610 Pattern Recognition and Machine Learning SC 6611 Neural Networks and Deep Learning SC 6612 Blockchain Technology and Cryptocurrency SC 6613 Recommender Systems Computer Graphics SC 6620 SC 6621 Computer Vision SC 6622 Augmented and Virtual Environments SC 6630 User Interface and User Experience (UI/UX) SC 6631 Web Technology, Applications and Security Mobile Computing SC 6632 SC 6640 Principles of the Theory of Computation SC 6633 Ubiquitous Computing and Internet of Things (IoT) SC 6400-99 Selected Topics in Computer Science SC 6500-99 Directed Individual Study in Computer Science Parallel Algorithms SC 8311 SC 8322 Image Processing

Computational Models of Decision Making

Advanced Computer Communications

Natural Language Processing

Computer and Data Security

SC 8380-599 Advanced Topics in Computer Science

DISSERTATION

SC 8323

SC 8324

SC 8350

SC 8354

SC 9000 Dissertation

ESTIMATED FEES

Fee Description

3-Years (6 Semesters)

Enrollment Fees:	THB	US\$
Matriculation Fee (Thai Students) Matriculation Fee (non-Thai Students) Student's Activity Fee	10,000 22,500 7,000	303 681 213
Registration Fees		
Tuition Fee (THB 7,000 x 48 credits) University Fee (THB 19,900 x 6 Semesters) Annual Internet & Access Control Fee	336,000 119,400	10,182 3,618
(THB 2,400/Year) Annual Health & Life Insurance Fee	7,200	219
(non-Thai Students, THB 5,000/Year)	15,000	455
Approximate Total for Thai Students Approximate Total for non-Thai Students	479,600 507,100	14,535 15,367

Note:

- 1. Tuition fee doesn't cover the followings:
 - Admission fee - Tuition fee for non-credit courses
 - Thesis Final Defense
- AU Academic Writing Course (15,000 THB) The fees are subject to change at the university's discretion without prior notice.
- 3. Currency exchange rate: US \$1 = THB 33

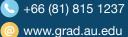
UNIVERSITY ADMISSIONS CENTER (UNIAD)













^{*:} Applicants who do not studied some foundation courses in their previous degree will have to take them.