

Ph.D. CS DOCTOR OF PHILOSOPHY IN

COMPUTER SCIENCE

3-YEAR PROGRAM (for Master's degree holder) or 4-YEAR PROGRAM (for Bachelor's degree holder)

The Doctor of Philosophy Program in Computer Science will serve to

- Prepare 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.

QUALIFICATION FOR ADMISSION

Admission to the program is granted to applicants with:

- 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 employers

ENTRANCE REQUIREMENTS

- 1. A completed application form
- 2. Official transcript from the previous university attended (2 copies)
- Master degree certificate for Type 2.1 or Bachelor 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 for Master's degree holder / 4 years for Bachelor's degree holder

EVENADTION

The AU English Proficiency Test can be exempted depending on which of the following conditions you 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

VENUE & CLASS HOURS

Hua Mak Campus,

Ramkhamhaeng 24 Road

Mon. - Fri. 6.30 P.M. - 9.30 P.M. Sat. - Sun. 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

Admission Schedule	Semester 1/2020 (June - October 2020)	Semester 2/2020 (November - February 2021)
Application Deadline	Wed. 20 May 2020	Tue. 20 October 2020
AU EPS Test and Interview	Sat. 23 May 2020	Sat. 24 October 2020
Entrance Results	Tue. 26 May 2020	Tue. 27 October 2020
Registraton Period	1 - 5 June 2020	2 - 6 November 2020
Instruction Begins	Mon. 22 June 2020	Mon. 23 November 2020

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

STUDY PLAN FOR TYPE 2.1*

Type 2.2 Coursework and Dissertation

(Bachelors Degree Holder)

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

STUDY PLAN FOR TYPE 2.2

FIRST YEAR

FIRST SEMESTER

Advanced Computing SC 6201

Systems

SC 6202 Computability,

SC 6212

SECOND YEAR

FIRST YEAR

FIRST SEMESTER

Three Elective Courses

SECOND SEMESTER

One Elective Course Qualifying Examination

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

Complexity and Algorithms

Programming Languages

and Compiler

SECOND SEMESTER

Three Elective Courses Qualifying Examination

SECOND YEAR

FIRST SEMESTER

Two Flective Courses SC 9000 Dissertation

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**

APPLY AT

Hua Mak Campus

Admissions Center "P" Building, 1st floor,

Ramkhamhaeng 24 Road, Bangkok 10240 Thailand

Office hours:

Monday - Friday 08:30 A.M. - 05:00 P.M. 08:00 A.M. - 04:30 P.M. Saturday 08:00 A.M. - 02:00 P.M. Sunday

ABAC Professional Training Center

ZEN @Central World, Level 14 4, 4/5 Rajdamri Rd., Phatumwan

Bangkok 10330 Thailand

Office hours:

Monday - Friday 10:00 A.M. to 06:00 P.M. Saturday - Sunday 10:00 A.M. to 06:00 P.M.

Suvarnabhumi Campus

Admissions Center SR101,

88 Moo 8 Bang Na-Trad Km.26, Bangsangthong, Samuthprakarn, Thailand 10540

Office hours:

Monday - Friday 08:30 A.M. to 05:00 P.M.

COURSES

FOUNDATION COURSES (REQUIRED COURSES)

SC 6201 SC 6202

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

FLECTIVE COURSES

SC 6319 SC 6324 Computer Network and Internet Security Principles of Software Engineering

SC 6360 SC 6362 Artificial Intelligence
Data Mining

SC 6365 SC 6399

SC 6601

SC 6602

SC 6603

Data Mining
Natural Language Understanding and Processing
Graduate Seminar in Computer Science
Cloud Computing and Big Data
Data Analysis and Visualization
Data Warehousing and Business Intelligences
Database Management Systems
Pattern Recognition and Machine Learning
Natural Natworks and Deep Learning SC 6604 SC 6610 SC 6611 SC 6612 Neural Networks and Deep Learning Blockchain Technology and Cryptocurrency

SC 6613 Recommender Systems

SC 6620 SC 6621 Computer Graphics Computer Vision Augmented and Virtual Environments
User Interface and User Experience (UI/UX) SC 6622 SC 6630

SC 6631 SC 6632

Web Technology, Applications and Security
Mobile Computing
Principles of the Theory of Computation
Ubiquitous Computing and Internet of Things (IoT)
Selected Topics in Computer Science SC 6640

SC 6633 SC 6400-99

SC 6500-99 SC 8311 Directed Individual Study in Computer Science Parallel Algorithms

SC 8322 SC 8323

Image Processing
Computational Models of Decision Making
Natural Language Processing
Computer and Data Security
Advanced Computer Communications SC 8324 SC 8350 SC 8354 SC 8380-599 Advanced Topics in Computer Science

DISSERTATION

SC 9000 Dissertation

ESTIMATED FEES 3 YFARS

Installments	Thai Students	Non Ti	Non Thai Students	
	(THB)	(THB)	(US\$)	
1 st Installments	106,300	123,800	4,127	
2 nd Installments	94,100	94,100	3,137	
3 rd Installments	109,100	114,100	3,803	
4 th Installments	109,100	109,100	3,637	
5 th Installments	84,100	89,100	2,970	
6 th Installments	96,100	96,100	3,203	
Total	597,600	625.100	20.837	

4 YEARS

Installments	Thai Students	Non T	Non Thai Students	
	(THB)	(THB)	(US\$)	
1 st Installments	127,300	144,800	4,827	
2 nd Installments	109,100	109,100	3,637	
3 rd Installments	115,100	120,100	4,003	
4 th Installments	109,100	109,100	3,637	
5 th Installments	84,100	89,100	2,970	
6 th Installments	96,100	96,100	3,203	
7 th Installments	84,100	89,100	2,970	
8 th Installments	84,100	84,100	2,803	
Total	807,800	840,300	28,010	

The provisional information statements set forth in this catalog should not be construed 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 2020

UNIVERSITY ADMISSIONS CENTER (UNIAD)

Tel. +66 (2) 300 4543-62 Ext.1244 Tel. +66 (2) 719 1929













GSATM ADMISSIONS CENTER

www.gradatm.au.edu



+66(0) 2723 2944, +66(0) 2723 2960





Applicants who do not studied some foundation courses in their previous degree will have to take them.