

Ph.D. CS **DOCTOR OF PHILOSOPHY IN** COMPUTER SCIENCE

3-YEARS PROGRAM (for Master's degree holder) or 4-YEARS 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 which will lead to the development of high quality computer scientists.

QUALIFICATION FOR ADMISSION

Admission to the program is granted to applicants with:

- 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.
 - ursework 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

- 1. A completed application form
- 2. Official transcript of the previous university attended both of Bachelor and Master (1 copy)
- 3. Bachelor's Degree Certificate (1 copy)
- 4. Master's Degree Certificate (1 copy)
- 5. Citizen identification card and house registration for Thai Applicants (1 copy)
- 6. Passport for Non-Thai applicants (1 copy)
 7. Three (1x1.5 inches) photographs (formal attire, not in graduation gown)
 8. Letter of recommendation from former instructors or employers at the time of
- the application (2 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.

ADMISSION FEE

1,000 THB

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, New Zealand and Australia)

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

- · 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, it requires 2 journal publications
- · Have obtained library and financial clearance from the University
- · Have demonstrated good behavior and discipline

Vincent Mary School of Science and Technology

4th Fl., A building, Huamak campus, Ramkhamhaeng 24 Rd., Bangkok, Thailand

Tel: 02-300-4543 ext.1340

Admission Schedule	Semester 1/2021 (June - October 2021)	Semester 2/2021 (November 2021 - February 2022)
Application Deadline	Wed. 19 May 2021	Wed. 20 October 2021
AU English Proficiency Test and Interview	Sat. 22 May 2021	Sat. 23 October 2021
Entrance Results	Tue. 25 May 2021	Tue. 26 October 2021
Registration Period	1 - 5 June 2021	1 - 5 November 2021
Instruction Begins	Mon. 7 June 2021	Mon. 8 November 2021

CURRICULUM STRUCTURE

Type 2.1 Coursework and Dissertation

(Master Degree Holder)

Foundation Courses Non-Credit **Elective Courses** 12 Credits Qualifying

Non-Credit Examination

Dissertation 36 Credits Total 48 Credits

STUDY PLAN FOR TYPE 2.1* FIRST YEAR

FIRST SEMESTER

Three Elective Courses

SECOND SEMESTER

One Elective Course

SC 9999 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**

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

Type 2.2 Coursework and Dissertation

(Bachelors Degree Holder)

Required Courses 9 Credits **Elective Courses** 15 Credits Qualifying

Examination Non-Credit 48 Credits Dissertation 72 Credits

STUDY PLAN FOR TYPE 2.2

FIRST YEAR

FIRST SEMESTER

SC 6201 **Advanced Computing** Systems SC 6202 Computability,

Complexity and Algorithms SC 6212 **Programming Languages** and Compiler

SECOND SEMESTER

Three Elective Courses

Qualifying Examination SC9999

SECOND YEAR

FIRST SEMESTER

Two Elective 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:

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

Suvarnabhumi Campus

Admissions Center SR101,

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

Office hours:

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

IMPORTANT

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.

The University Registrar

COURSES

SC 6212

FOUNDATION COURSES (REQUIRED COURSES) Advanced Computing Systems Computability, Complexity and Algorithms Programming Languages and Compiler SC 6201 SC 6202

FLECTIVE COURSES

SC 6319 SC 6324 SC 6360 Computer Network and Internet Security
Principles of Software Engineering Artificial Intelligence

SC 6362 SC 6365

SC 6399 SC 6601 SC 6602

Artificial Intelligence
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
Neural Networks and Deep Learning SC 6603

SC 6604 SC 6610 SC 6611

Neural Networks and Deep Learning Blockchain Technology and Cryptocurrency Recommender Systems SC 6612 SC 6613

Computer Graphics Computer Vision Augmented and Virtual Environments SC 6620 SC 6621 SC 6622

User Interface and User Experience (UI/UX) SC 6630 SC 6631 SC 6632

Web Technology, Applications and Security
Mobile Computing
Principles of the Theory of Computation SC 6640 SC 6633

Ubiquitous Computing and Internet of Things (IoT)
Selected Topics in Computer Science
Selected Topics in Quantum Computing
Directed Individual Study in Computer Science SC 6400-99 SC 6409 SC 6500-99

SC 8311 SC 8322

Parallel Algorithms
Image Processing
Computational Models of Decision Making SC 8323

SC 8350 Computer and Data Security
SC 8354 Advanced Computer Communications
SC 8380-599 Advanced Topics in Computer Science

Qualifying Examination
Dissertation SC 9999 SC 9000

FSTIMATED FFFS

3 YEARS

Installments	Thai Students (THB)	Non Thai (THB)	Students (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 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

Note:

- 1. The total fee above doesn't cover the followings:
 - Admission fee
 - Text books
 - SC 9999 Qualifying Examination
- The fees are subject to change at the university's discretion without prior notice.
 Currency exchange rate: US \$1 = THB 30

UNIVERSITY ADMISSIONS CENTER (UNIAD)







Last updated: April 2021





