

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:

- 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.
- GPA of at least 3.25 on a scale of 4.0, or equivalent

ENTRANCE REQUIREMENTS

- A completed application form
- Official transcript of the previous university attended both of Bachelor and Master (1 copy)
- Bachelor's Degree Certificate (1 copy)
- Master's Degree Certificate (1 copy)
- Citizen identification card and house registration for Thai Applicants (1 copy)
- Passport for Non-Thai applicants (1 copy)
- Three (1x1.5 inches) photographs (formal attire, not in graduation gown)
- 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.

Applicants who graduated from overseas Universities will be required to provide at the time of applying and not later, certified, attested, or notarized by competent notaries, all academic documents with the seal or stamp by the Ministry of Foreign Affairs, Ministry of Education or related department.

ADMISSION FEE 1,000 THB (Non-refundable)

EXEMPTION

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)

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, 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

3rd Fl., A building, Huamak campus, Ramkhamhaeng 24 Rd., Bangkok, Thailand
Tel: 02-300-4543 ext.1310

ADMISSIONS SCHEDULE 2023 / 2024

	Semester 1/2023 (June - October 2023)	Semester 2/2023 (November - March 2024)
Application Deadline	Wed. 24 May 2023	Tue. 17 October 2023
AU English Proficiency Test and Interview	Online	Online
Entrance Results	Tue. 30 May 2023	Tue. 24 October 2023
Registration Period	1-4 June 2023	1-5 November 2023
Instruction Begins	Mon. 5 June 2023	Mon. 6 November 2023

CURRICULUM STRUCTURE

Type 2.1 Coursework and Dissertation

(Master Degree Holder)

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

STUDY PLAN FOR TYPE 2.1*

FIRST YEAR

FIRST SEMESTER

SC 6xxx/	One Elective Course
SC 8xxx	One Elective Courses

SECOND SEMESTER

SC 8xxx	Two Elective Courses
	Qualifying Examination

SECOND YEAR

FIRST SEMESTER

SC 9000	Dissertation
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SECOND SEMESTER

SC 9000	Dissertation
	Prospectus Examination

THIRD YEAR

FIRST SEMESTER

SC 9000	Dissertation
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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
Dissertation	48 Credits
Total	72 Credits

STUDY PLAN FOR TYPE 2.2

FIRST YEAR

FIRST SEMESTER

SC 6201	Advanced Computing Systems
SC 6xxx/	Two Elective Courses

SECOND SEMESTER

SC 6202	Compuability, Complexity and Algorithms
SC 6212	Programming Languages and Compiler
SC 8xxx	One Elective Course

SECOND YEAR

FIRST SEMESTER

SC 8xxx	Two Elective Courses
	Qualifying Examination

SECOND SEMESTER

SC 9000	Dissertation
	Prospectus Examination

THIRD YEAR

FIRST SEMESTER

SC 9000	Dissertation
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SECOND SEMESTER

SC 9000	Dissertation
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FORTH YEAR

FIRST SEMESTER

SC 9000	Dissertation
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SECOND SEMESTER

SC 9000	Dissertation
	Dissertation Examination

COURSES

FOUNDATION COURSES (REQUIRED COURSES)

SC 6201	Advanced Computing Systems
SC 6202	Computability, Complexity and Algorithms
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
SC 6365	Natural Language Understanding and Processing
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
SC 6620	Computer Graphics
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
SC 6632	Mobile Computing
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 6409	Selected Topics in Quantum Computing
SC 6500-99	Directed Individual Study in Computer Science
SC 8311	Parallel Algorithms
SC 8322	Image Processing
SC 8323	Computational Models of Decision Making
SC 8350	Computer and Data Security
SC 8354	Advanced Computer Communications
SC 8380-599	Advanced Topics in Computer Science

DISSERTATION

SC 9000	Qualifying Examination
	Dissertation

ESTIMATED FEES

3 YEARS

Installments	Thai Students (THB)	Non Thai Students (THB)	(US\$)
1 st Installments	106,100	123,600	4,120
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	598,600	626,100	20,870

4 YEARS

Installments	Thai Students (THB)	Non Thai Students (THB)	(US\$)
1 st Installments	127,100	148,600	4,820
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	808,800	841,300	28,043

Note:

- The total fee above doesn't cover the followings:
 - Admission fee
 - Text books
 - Qualifying Examination
- The fees are subject to change at the university's discretion without prior notice.
- Currency exchange rate: US \$1 = THB 33

APPLICATIONS

Hua Mak Campus

Admissions Center "A" Building, 1st floor, Ramkhamhaeng 24 Road, Bangkok 10240 Thailand

Office hours:

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

Last updated: November 2021

The University Registrar

UNIVERSITY ADMISSIONS CENTER

Last updated: Jan 2023

HUA MAK CAMPUS

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