

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.

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

APPLICATION REQUIREMENTS

- 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)
- Citizen identification card and house registration for Thai Applicants (1 copy)
- 6. Passport for Non-Thai applicants (1 copy)
- 7. One (1x1.5 inches) photograph (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.

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)

ENTRANCE EXAMINATION

- AU English Proficiency Test
- Interview Entrance Examination

EXEMPTION

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

- TOEFL score of (iBT) 90 or an IELTS (Academic) score of at least 6.5 (Validation: Two years)
- a Bachelor's degree from native English speaking countries (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 ENGINEERING, SCIENCE AND TECHNOLOGY

(SUVARNABHUMI CAMPUS)

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ADMISSION SCHEDULE 2025				
	Semester 1/2025 (June – October 2025)	Semester 2/2025 (November 2025 – March 2026)		
Application deadline	From now – 27 May 2025	From now - October		
AU English Proficiency Test and Interview	Online	Online		
Entrance results	To be announced by the faculty	To be announced by the faculty		
Instruction begins	2 June 2025	3 November 2025		

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 48 Credits Total

STUDY PLAN FOR TYPE 2.1*

FIRST YEAR

FIRST SEMESTER

SC 6xxx/ One Elective Course

SC 8xxx

SC 8xxx

SC 8xxx One Elective Courses

SECOND SEMESTER

Two Elective Courses 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.

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 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 Computational Models of Decision Making SC 8323

Computer and Data Security SC 8350 SC 8354 **Advanced Computer Communications**

SC 8380-599 Advanced Topics in Computer Science

Dissertation

Qualifying Examination

SC 9000 Dissertation

GRADUATE ADMISSIONS OFFICE

HUA MAK CAMPUS

Admissions Center "A" Building, Floor 1

Ramkhamhaeng 24 Road, Bangkok 10240 Thailand

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

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/

SC 8xxx Two Elective Courses

SECOND SEMESTER

SC 6202 Compuabilty, 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

SECOND SEMESTER

SC 9000 Dissertation

FOURTH YEAR

FIRST SEMESTER SC 9000 Dissertation

SECOND SEMESTER

SC 9000 Dissertation

Dissertation Examination

ESTIMATED FEES 3 YEARS

	Installments	Thai students (THB)	Non-Thai (THB)	students (US\$)	
	1 st Installment	171,000	171,000	5,700	
	2 nd Installment	171,000	171,000	5,700	
	3 rd Installment	171,000	171,000	5,700	
	4 th Installment	171,000	171,000	5,700	
	5 th Installment	156,000	156,000	5,200	
	6 th Installment	140,000	140,000	4,667	
	Total	980.000	980.000	32.667	

Note:

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

ESTIMATED FEES 4 YEARS (for Bachelor's degree holder)

Installment	Thai Students	Non-Thai Students
Installment	Thai Students	Non-Thai Students
1 st Installment	171,000 THB	171,000 THB
2 nd Installment	171,000 THB	171,000 THB
3 rd Installment	171,000 THB	171,000 THB
4 th Installment	133,500 THB	133,500 THB
5 th Installment	133,500 THB	133,500 THB
6 th Installment	133,500 THB	133,500 THB
7 th Installment	133,400 THB	133,400 THB
8 th Installment	133,100 THB	133,100 THB
Total	1,180,000 THB	1,180,000 THB

Note:

- The total fee above doesn't cover the followings: - Admission fee
 - Textbooks

 - Qualifying Examination
- 2. The fees are subject to change at the university's discretion without prior notice.
- Currency exchange rate: US \$1 = THB 30

UNIVERSITY ADMISSIONS CENTER

ASSUMPTION UNIVERSITY Hua Mak Campus, Assumption Building, Floor 1

Suvarnabhumi Campus, SR101 Tel: +66 81 815 1237

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