VINCENT MARY SCHOOL OF SCIENCE AND TECHNOLOGY

M.S. CS
COMPUTER SCIENCE

2-YEAR PROGRAM
THESIS AND NON - THESIS OPTIONS

The Master of Science Program in Computer Science aspires to produce graduates who are capable of working efficiently in technology oriented environment. In order to meet this philos–ophy, the curriculum emphasizes:

- True understanding of the principles of major topics in Computer Science.
- Analytical approaches in solving problems and decision–making based on technology and research methodology.
- Innovative skills to create research work that is worthy in both academic and computer applications.

QUALIFICATION FOR ADMISSION
The following admission requirements (recommended) for any prospective students to enter the program.
1. Bachelor's degree from an accredited institution. The applicants must graduate from the following academic fields: Computer Science, Information Technology, Telecommunications Science, Engineering or related field.
2. GPA of at least 2.5 out of 4.0 or equivalent

APPLICATION REQUIREMENTS
1. A completed application form
2. Official transcript of the previous university attended (1 copy)
3. Bachelor's degree certificate (1 copy)
4. Citizen identification card and house registration (1 copy) - for Thai applicants
5. Passport (1 copy) - for Non-Thai applicants
6. One (1x1.5 inches) photograph (formal attire, not in graduation gown)
7. Letter of recommendation from former instructors or employers at the time of the application (2 letters)

Applicants who are graduates 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.

Note: All documents must be endorsed with signature and submitted in person within the last day of 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 (Non-refundable)

Vincent Mary School of Science and Technology
3rd Fl., A building, Hua Mak Campus,
Ramkhamhaeng 24 Rd., Bangkok, Thailand
Tel: 02-300-4543 ext. 1310
Email: phattraporn@scitech.au.edu

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 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 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.

DURATION: 2 years

GRADUATION REQUIREMENTS
Plan A : Coursework and Thesis
- Have completed all the courses of the curriculum.
- Have obtained a cumulative grade point average of at least 3.00.
- Have passed the thesis defense.
- Have a publication or obtain an acceptance of a publication related to the content of the thesis in a journal or an international conference proceeding and which is approved by the Academic Committee of the department.
- Have obtained library and financial clearance from the University.
- Have demonstrated good behavior and discipline.
- Have passed Research Planning and Management Seminar

Plan B: Coursework and Independent Study
- Have completed all the courses of the curriculum.
- Have obtained a cumulative grade point average of at least 3.00.
- Have passed the comprehensive examination.
- Have passed the Master project presentation.
- Have obtained library and financial clearance from the University.
- Have demonstrated good behavior and discipline.
- Have passed Research Planning and Management Seminar.

ADMISSIONS SCHEDULE 2024 / 2025

	Semester 1/2024 (June-October 2024)	Semester 2/2024 (November 2024 - March 2025)
Application Deadline	Wed. 22 May 2024	Wed. 23 October 2024
AU EPS Test and Interview	by appointment	by appointment
Registration Period	3-10 June 2024	28 Oct - 1 Nov. 2024
Instruction Begins	Mon. 10 June 2024	Mon. 4 November 2024

STUDY PLAN

Thesis Option (Plan A)
Preparatory Courses	Non-credit
Required Courses	9 credits
Elective Courses	15 credits
Thesis	12 credits
Total	**36 credits**

Coursework and Independent Study (Plan B)
Preparatory Courses	Non-credit
Required Courses	9 credits
Elective Courses	24 credits
Master Project	3 credits
Comprehensive Examination	Non-credit
Total	**36 credits**

YEAR 1
Semester 1
SC 6201   Advanced Computing Systems
SC 6202   Computability, Complexity and Algorithms
SC 6212   Programming Languages and Compiler

Semester 2
Plan A   Three Elective Courses

YEAR 2
Semester 1
Plan A   Two Elective Courses + SC 7000 Thesis
Plan B   Three Elective Courses

Semester 2
Plan A   SC 7000 Thesis
Plan B   Two Elective Courses + SC6900 Master Project
+ Comprehensive Examination

CURRICULUM
Preparatory Courses
AWC 2000 Upper Intermediate Academic Writing Course
SC 5211   Computer Programming & Data Structure
SC5212   Computing Systems

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

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.

Suvarnabhumi Campus
Admissions Center SR101,
88 Moo 8 Bang Na-Trad Km.26, Bang Sao Thong,
Samut Prakan, Thailand 10540
Office hours:
Monday - Friday   08:30 A.M. to 05:00 P.M.

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

Independent study
SC6900   Master Project
              Comprehensive Examination

Thesis
SC7000   Thesis

ESTIMATED FEES

Installments	Thai Students (THB)	Non Thai Students (THB)	(US$)
1st Installments	137,500	137,500	4,583
2nd Installments	137,500	137,500	4,583
3rd Installments	112,500	137,500	4,583
4th Installments	112,500	137,500	4,583
Total	**500,000**	**550,000**	**18,333**

1. The total fee above doesn't cover the followings:
- Admission fee
- Text books
- Comprehensive Examination (if apply)
2. The fees are subject to change at the university's discretion without prior notice. 3. Currency exchange rate: US $1 = THB 32

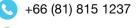**UNIVERSITY ADMISSIONS CENTER**   Last updated: Jan 2023

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