M.S. CS
MASTER OF SCIENCE IN 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 philosophy, 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.*

Study at **Hua Mak Campus**

ADMISSION SCHEDULE 2017 / 2018

Admission Schedule	Semester 1/2017 (August - December 2017)	Semester 2/2017 (January - May 2018)	Semester 1/2018 (August - December 2018)	Semester 2/2018 (January - May 2019)
Application Filling Period	July 21, 2017	December 16, 2017	July 21, 2018	December 15, 2018
AU English Proficiency Test	July 22, 2017	December 17, 2017	July 22, 2018	December 16, 2018
Examination Interview	July 22, 2017	December 20, 2017	July 24, 2018	December 18, 2018
AU Entrance Results	July 24, 2017	December 23, 2017	July 26, 2018	December 20, 2018
Registration Period	July 26 - August 11, 2017	January 3-13, 2018	July 30 - August 11, 2018	January 7-14, 2019
Instruction Begins	August 7, 2017	January 8, 2018	August 7, 2018	January 7, 2019

ADMISSION REQUIREMENTS
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 tield.
2. Three recommendation letters from lecturers or employers
3. Required GPA of at least 2.5

ENTRANCE REQUIREMENTS
1. A completed application form
2. Official transcript from the previous university attended (2 copies)
3. Bachelor's degree certificate (2 copies)
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.

ADMISSION FEE
AU English Proficiency Test and Interview	Baht 500
Admission Fee	Baht 500

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, 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.

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.
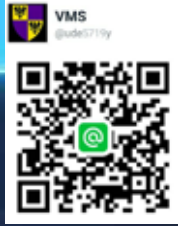- Have passed Research Planning and Management Seminar

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 project presentation.
- Have obtained library and financial clearance from the University.
- Have demonstrated good behavior and discipline.
- Have passed Research Planning and Management Seminar.

Remark: 2 publications are required for 24 credits Thesis*

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STUDY PLAN

Thesis Option (Plan A1)   **12 credits**
Preparatory Courses	Non-credit
Required Courses	9 credits
Elective Courses	15 credits
Thesis	12 credits
Total	**36 credits**

Thesis Option (Plan A2)   **24 credits**
Preparatory Courses	Non-credit
Required Courses	9 Credits
Elective Courses	3 Credits
Thesis	24 Credits
Total	**36 Credits**

Coursework and Independent Study (Plan B)
Preparatory Courses	Non-credit
Required Courses	9 credits
Elective Courses	24 credits
Project	3 credits
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 A1, A2	Three Elective Courses
Plan A2	One Elective Courses + SC 7000 Thesis

YEAR 2
Semester 1
Plan A1	Two Elective Courses + SC 7000 Thesis
Plan A2	SC 7000 Thesis
Plan B	Three Elective Courses

Semester 2
Plan A1, A2	SC 7000 Thesis
Plan B	Two Elective Courses + SC6900 Master Project + Comprehensive Examination

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CURRICULUM
Preparatory Courses
ES 5001	English for Graduate Study
SC 5211	Computer Programming & Data Structure

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 6500-99	Directed Individual Study in Computer Science
SC 8311	Parallel Algorithms
SC 8322	Image Processing
SC 8323	Computational Models of Decision Making
SC 8324	Natural Language Processing
SC 8350	Computer and Data Security
SC 8354	Advanced Computer Communications
SC 8380-599	Advanced Topics in Computer Science

Independent study
SC6900	Master Project

Thesis
SC7000	Thesis

ESTIMATED FEES

Fee Description	2-Years (4 Semesters)	

Enrollment Fees:	THB	US$
Matriculation Fee (Thai Students)	10,000	303
Matriculation Fee (non-Thai Students)	22,500	681
Student's Activity Fee	7,000	213

Registration Fees	THB	US$
Tuition Fee (THB 4,000 x 37 credits)	148,000	4,485
University Fee (THB 17,900 x 4 Semesters)	71,600	2,170
Annual Internet & Access Control Fee (THB 2,400/Year)	4,800	146
Annual Health & Life Insurance Fee (non-Thai Students, THB 5,000/Year)	10,000	303
Approximate Total for Thai Students	**241,400**	**7,315**
Approximate Total for non-Thai Students	**263,900**	**7,997**

Note:
1. Tuition fee doesn't cover the followings:
   - Admission fee
   - Text books
   - AU Academic Writing Course (15,000 THB)
   - Tuition fee for non-credit courses
   - Thesis Final Defense/Comprehensive Examination
2. The fees are subject to change at the university's discretion without prior notice.
3. Currency exchange rate: US $1 = THB 33

UNIVERSITY ADMISSIONS CENTER (UNIAD)

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