Admission Number

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Doctor of Philosophy Programme in Computer Science (International Programme)

หลักสูตร ปรัชญาดุษฏีบัณฑิต สาขาวิชา วิทยาการคอมพิวเตอร์ (หลักสูตรนานาชาติ) (ภาคปกติ)

Faculty of Information and Communication Technology

คณะเทคโนโลยีสารสนเทศและการสื่อสาร

Expected number of students to be accepted all year round : 5 Students

Admission Requirements

A candidate must:

- 1. hold a Master's degree in one of the following fields: computer science, computer engineering, or computer related areas with a minimum grade point average of 3.5;
- 2. have a TOEFL score of at least 500, TOEFL computer-based score of 173, TOEFL Internet-based score of 61, or IELTS score of 5. Any applicants who do not have any of the test scores specified above will have to take the English Proficiency Examination of the Faculty of Graduate Studies on the specified examination day.
- 3. In case your qualification does not match to the admission criteria, candidates must prior attach A Requesting Form for Examination" approved by the program director. The form must be submitted before making the application. Kindly download here: http://www.grad.mahidol.ac.th/grad/admission/form th.php

Exemptions from the above conditions may be granted by the Programme Committee and the Dean of the Faculty of Graduate Studies under exceptional circumstances.

Written Examination (Applicants must attend the examination date accurately to your admission round.)

The following schedule dates are set only applicants who do not have any English test scores.

	First Round	Second Round		
J	anuary 17, 2015	May 16, 2015		
Subjects	Time	Subjects	Time	
1. English	8.30 - 11.30 a.m.	1. English	8.30 - 11.30 a.m.	
Examination Place				

Mahidol University, Salaya, Nakhon Pathom. The announcement will be on the web at www.grad.mahidol.ac.th or at Faculty of Graduate Studies.

Curriculum Structure

Plan 1: Do Research only, no course work.	Credit			
Course works	Non-Credit			
Dissertation	48			
Plan 2: Do course work and Research				
Required Courses	9			
Elective Courses	3			
Dissertation	36			

Disc			Credit		
Plan 1	with Dlo	n 1 must onroll 2 Sominar Courses on (Non Cradit)/Audit			
ITCS	671 ⁶	n 1 must enroll 3 Seminar Courses as (Non-Credit)/Audit	1(1 0 2)		
ITCS	672	Seminar in Computer Science I	1(1-0-2) 1(1-0-2)		
ITCS	673	Seminar in Computer Science II	1(1-0-2)		
Plan 2	073	Seminar in Computer Science III	1(1-0-2)		
	d Course:				
ITCS	531	Mathematics for Computer Science	3(3-0-6)		
ITCS	532	Foundations of Computational Science	3(3-0-6)		
ITCS	671	Seminar in Computer Science I	1(1-0-2)		
ITCS	672	Seminar in Computer Science II	1(1-0-2)		
ITCS	673	Seminar in Computer Science III	1(1-0-2)		
	Courses		1(1-0-2)		
		ems Category			
ITCS	628	Data Mining and Knowledge Discovery	3(3-0-6)		
ITCS	629		· · · ·		
ITCS	682	Knowledge Engineering	3(3-0-6)		
		Advanced Database Systems Security category	3(3-0-6)		
ITCS	551	Security category Service Oriented and Cloud Computing	3(3-0-6)		
ITCS	554	Information Security Management	3(3-0-6)		
ITCS	634	Queuing Modeling in Computer Communication Networks	3(3-0-6)		
ITCS	638	Networks and Distributed Systems Security	3(3-0-6)		
ITCS	653	Advanced Computer Architecture	3(3-0-6)		
ITCS	687	Advanced Computer Security	3(3-0-6)		
		ence Category	0(0-0-0)		
ITCS	-	Heuristic Methods for Optimization	3(3-0-6)		
ITCS	661	Advanced Artificial Intelligence	3(3-0-6)		
ITCS	662	Advanced Pattern Recognition	3(3-0-6)		
ITCS	663	Image and Signal Processing	3(3-0-6)		
ITCS	665	Natural Language Processing	3(3-0-6)		
ITCS	667	Advanced Computer Vision	3(3-0-6)		
	are Engin				
ITCS	642	Software Engineering Management	3(3-0-6)		
ITCS	644	Software Quality Assurance	3(3-0-6)		
ITCS	646	Requirements Engineering	3(3-0-6)		
ITCS	651	Model-Driven Design and Development	3(3-0-6)		
ITCS	657	Validation and Verification	3(3-0-6)		
5. Other Elective Courses					
ITCS	571	Numerical Methods for Mathematical Optimization	3(3-0-6)		
ITCS	695	Independent Study	3(0-6-3)		
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	Dissertatior	า		
	ITCS	699	Dissertation (Plan 2)	36(0-108-0)
	ITCS	898	Dissertation (Plan 1)	48(0-144-0)
* These may change in cases where there are suggestions for the improvement of the curriculum				

Additional advantages of the programme

The new curriculum of our PhD degree in Computer Science now has two study plans. The first plan is to do PhD dissertation only, and no need to take any courses. The plan gives an opportunity for students with strong determination to do research and may graduate with a shorter time. The second plan is to both study course work and do PhD dissertation. The number of required credits for core courses has been reduced. In addition, elective courses are grouped into four sub-categories which include database systems, network systems and security, artificial intelligence, and software engineering.

Students also have the opportunity to do exchange with foreign universities such as University College London (UCL), one of the top computer science universities in England, and Tokyo University of Agriculture and Technology (TUAT), They are our partners, All the courses and credits taken at those universities can be transferred to Mahidol University.

For research topics, our professors have various research projects including intelligent systems research, network systems research, security research, software engineering research, data search engine research, database research, bioinformatics research, and health informatics research.

Details of Scholarships

The Faculty of ICT offers a number of full-time scholarships with the reduced tuition fee and monthly allowance of 20,000 Baht per month to outstanding students with good background in research experiences.

Additional information for applicants

To admit to the PhD program, all applicants must pass both English interview and proposal presentation after they presented to the admission committee of the Faculty.

Application Process

Application is only available via online application at <u>www.grad.mahidol.ac.th</u>. All necessary documents must be submitted and given to the committee before the preliminary interview can be conducted.

Proposal / Concept Paper

- 1. Statement of purpose describing your intended area of research as well as the brief description of your experiences.
- 2. List of papers published in the international conferences/journals.
- 3. CV or Resume describing your education and working experiences.

Required Documents

The following required documents must be submitted via the online admission system. However, if applicants sent these documents via the postage mail, two copies of these documents are required.

- A recent and formal photograph (1x1 inch in size)
- A copy of an applicant's degree certificate or a letter of graduation certification (for an applicant with a degree completion)
- A letter certifying that an applicant is currently in the final year prior to graduation (for an applicant seeking for a degree)
- A detailed transcript of a degree (for an applicant with a degree completion)
- An incomplete detailed transcript of a degree with course names and grades of the first to the current semester prior to graduation (for an applicant seeking for a degree)
- For Thai applicants, a copy of Thai identification card with a signature on it.
- For Foreign applicants, a valid passport showing both your photo and the expiration date
- A copy of house registration certification for Thai applicants
- A copy of proof of payment for the application fee

Submitting all documents via the online admission system

- All documents must be in <u>PDF format</u> (maximum size 2 MB)
- Recent photograph must be in <u>JPEG format</u> only (maximum size 2 MB)

Job option after graduation

- 1. Computer Science Specialist in Education Places
- 2. Computer Scientist
- 3. Computer Science Researcher
- 4. IT Project Manager

Further information about the programme and scholarship may be obtained from the Director of Graduate Studies, Computer Science :

- 1. Assoc. Prof. Supachai Tangwongsan (E-mail : supachai.tws@mahidol.ac.th)
- 2. Asst. Prof. Sudsanguan Ngamsuriyaroj (E-mail : ictadmission@mahidol.ac.th,
 - sudsanguan.nga@mahidol.ac.th)

Computing Center Building, Faculty of Information and Communication Technology, Phayathai campus, Rama 6 Road. Tel. : 0 2354 4333 Fax.: 0 2354 7333

Program Coordinator

 Miss. Thunyathorn Suthijaroen (E-mail : thunyathorn.sut@mahidol.ac.th) Room CC101, Computing Center Building, Floor 1, Faculty of Information and Communication Technology, Phayathai campus, Rama 6 Road. Tel. : 0 2354 4333
 Fax.: 0 2354 7333

<u>Note</u>	1. For	more	education	information :	www.grad.mahidol.ac.th
				:	www.ict.mahidol.ac.th

For more information please contact The Student Admission Section. Tel . 0 2441 4125 ext. 208-210 , 0 2441 9129, E-mail : gradthai@mahidol.ac.th Faculty of ICT , Tel. 0 2354 4333