Admission Number

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Master of Science Programme in Cyber Security and Information Assurance
(International Programme – Special Programme)

หลักสูตร   วิทยาศาสตรมหาบัณฑิต   สาขาวิชาความมั่นคงไซเบอร์และการประกันสารสนเทศ
(หลักสูตรนานาชาติ - ภาคพิเศษ)

Faculty of Information and Communication Technology

คณะเทคโนโลยีสารสนเทศและการสื่อสาร

Expected number of students to be accepted all year round : 10 Students

(Plan A (2) = 5 Students , Plan B = 5 Students)

Admission Requirements
   A candidate must:
   1. Hold a Bachelor's degree in computer science, information and communication technology, computer engineering, or other related areas that have taken at least 15 credits of computer courses.
   2. Obtain the cumulative GPA of at least 3.0 .
   3. have professional experience in computer science.
   4. have a TOEFL score of at least 480, TOEFL computer-based score of 157, TOEFL Internet-based score of 54, or IELTS score of 4.5 or pass the English Proficiency Examination arranged by the Faculty of Graduate Studies.
      Those 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.
   5. 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

   Exceptions from the above conditions may be granted by the Programme Committee and the

   Dean of Faculty of Graduate Studies;

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

First Round January 17, 2015		Second Round May 16, 2015	
Subjects for examination	**Time**	**Subjects for examination**	**Time**
1. English	8.30 - 11.30 a.m.	1. English	8.30 - 11.30 a.m.
2. Mathematics, Computer	1.30 - 5.30 p.m.	2. Mathematics, Computer	1.30 - 5.30 p.m.

Examination Place
   Mahidol University , Salaya , Nakhonpathom more details : www.grad.mahidol.ac.th or Announcement at Faculty of Graduate Studies branches.

Curriculum Structure

	Credit
Plan A (2)	
Prerequisite Courses	Non-Credit
Required Courses	18
Elective Courses not less than	6
Thesis	12
Plan B	
Prerequisite Courses	Non-Credit
Required Courses	18
Elective Courses not less than	12
Thematic Paper	6

			Credit
Prerequisite Courses			Non-Credit
ITCS	503	Design and Analysis of Algorithms	3(3-0-6)
ITCS	504	Computer System Organization and Architecture	3(3-0-6)
ITCS	506	Operating Systems	3(3-0-6)
Required Courses			
ITCY	511	Computer and Network Security	3(3-0-6)
ITCY	512	Information Security Management	3(3-0-6)
ITCY	513	Cyber Ethics and Law	3(3-0-6)
ITCY	514	Fraud Analysis and Detection	3(3-0-6)
ITCY	541	Digital Forensics Technologies and Techniques	3(3-0-6)
ITCY	571	Information Assurance and Risk Management	3(3-0-6)
Elective Courses			
1.Cyber Security (กลุ่มวิชาความมั่นคงไซเบอร์)			
ITCY	531	System Hardening and Penetration Testing	3(3-0-6)
ITCY	534	Reverse Engineering and Vulnerability Analysis	3(3-0-6)
ITCY	543	Network Forensics	3(3-0-6)
ITCY	544	Mobile Security	3(3-0-6)
ITCY	545	Cloud Security	3(3-0-6)
ITCY	561	Ethical Hacking	3(3-0-6)

ITCY	562	Intrusion Detection and Prevention	3(3-0-6)
ITCY	591	Special Topics in Cyber Security and Forensics	3(3-0-6)

2.Information Assurance (กลุ่มวิชาการประกันสารสนเทศ)

ITCY	551	Application of Cryptography	3(3-0-6)
ITCY	552	Authentication Technology Management	3(3-0-6)
ITCY	553	Secure Software Design	3(3-0-6)
ITCY	572	Information and Social Network Security	3(3-0-6)
ITCY	573	E-Services Security Management	3(3-0-6)
ITCY	581	Incident Response Management	3(3-0-6)
ITCY	592	Special Topics in Information Assurance	3(3-0-6)

Thesis (Plan A (2))

ITCY	698	Thesis	12(0-36-0)

Thematic Paper (Plan B)

ITCY	697	Thematic Paper	6(0-18-0)

* These may change in cases where there are suggestions for the improvement of the curriculum

Addition advantages of the programe
1. Unique and modern academic program
2. Connections with many reputable partners
3. Good opportunities for careers in AEC
4. One year program

Details of Scholarships
Partial scholarships are available for exceptional applicants.

Application Process
Application is only available via online application at www.grad.mahidol.ac.th

Required Documents
Prepare the following required documents to submit via online admission system or post :

- Two (2) recent photographs (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) — 2 copies
- A letter certifying that an applicant is currently in the final year prior to graduation (for an applicant seeking for a degree) — 2 copies
- A detailed transcript of a degree (for an applicant with a degree completion) — 2 copies
- A grade report with course names and grades received from the first to the current semester prior to graduation — 2 copies
- A copy of identification card — 2 copies

- A copy of house registration certification   2 copies
- A copy of Certificate of English score: TOEFL/IELTS/MU-Test (if any). See detail here: 2 copies
  http://www.grad.mahidol.ac.th/grad/academicinfo/engstandard2553_th.php
  Those who early submit a valid English score prior to the examination will be exempt
  from English test on the examination date.
- A copy of proof of payment.

Submitting documents via 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 Technician.
2. Security System Developer.
3. Data Security System Administrator.
4. Software Security System Administrator.
5. Network and Server System Administrator.
6. Network and Server Security System Administrator.
7. Cyber Security and Information Assurance Researcher.

**Further information about the programme and scholarship may be obtained from the
Director of Graduate Studies, Cyber Security and Information Assurance :**

1. **Assoc. Prof. Damras Wongsawang   (E-mail : damras.won@mahidol.ac.th)**
   Computing Center Building, Faculty of Information and Communication Technology,
   Phayathai campus, Rama 6 Road.
   Tel.   : 0 2354 4333 (Phayathai campus)   Fax.: 0 2354 7333
            0 2441 0909 (Salaya campus)
2. **Assoc. Prof. Jarernsri L. Mitrpanont   (E-mail : jarernsri.mit@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

1. **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>Notes</u> 1. The programme of Cyber Security and Information Assurance requires students to study the prerequisite
courses:

-ITCS 503	Design and Analysis of Algorithms	3	Credits
-ITCS 504	Computer Systems Organization and Architecture	3	Credits
-ITCS 506	Operating Systems	3	Credits

2. For more education information :   http://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