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

หลักสูตร วิทยาศาสตร์มหาบัณฑิต 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 or have professional experience in computer science.
3. Submit a certificate of English proficiency with minimum admission score:
 - IELTS - at least 3 or
 - TOEFL INTERNET BASED - at least 32 or
 - TOEFL ITP (test arranged by Faculty of Graduate Study, Mahidol University) - at least 400 or
 - MU GRAD TEST(Computer based) - at least 36

Important Notes:

- English proficiency score must be taken within 2 years up to the admission date.
 - Application without submitting a valid English certificate will NOT be considered.
 - MU English Competence Standards: www.grad.mahidol.ac.th
 - MU English proficiency tests, please contact the Language Center, Faculty of Graduate Studies. Tel. 0-2441-4125 ext. 221-222
4. 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)

Subjects for examination	Time (Morning session)
- Mathematics and Computer	8:00 - 12:00 a.m.
Examination Place Mahidol University, Phayathai Campus, Faculty of Information and Communication Technology, Computing Center Building, more details : www.grad.mahidol.ac.th	

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)
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Thematic Paper (Plan B)

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

Applicants must upload all documents via online admission system. All documents must be in PDF format (maximum size 2 MB). Photograph must be in JPEG format

- 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)
- 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)
- A grade report with course names and grades received from the first to the current semester prior to graduation
- A copy of identification card
- A copy of house registration certification
- A copy of Certificate of English proficiency :
IELTS / TOEFL INTERNET BASED / TOEFL ITP / MU GRAD TEST (Computer based)
- A copy of proof of payment.
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Job options 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. Mitranont** (E-mail : jarernsri.mit@mahidol.ac.th)
Computing Center Building, Faculty of Information and Communication Technology,
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Program Coordinator

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

Notes 1. The programme of Cyber Security and Information Assurance may require some students to study some of the following 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, E-mail: ictadmission@mahidol.ac.th