Master of Science Programme in Game Technology and Gamification

(International Programme – Special Programme)

หลักสูตร   วิทยาศาสตรมหาบัณฑิต   สาขาวิชาเทคโนโลยีเกมและเกมมิฟิเคชัน

(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, Computer Engineering, Information Technology, Information and Communication Technology or other related fields from any of the Ministry of Thailand's accredited universities. Exceptions can be made for applicants who have a Bachelor degree with at least 15 credits of computer-related courses and relevant work experience..
2. Minimum cumulative GPA of 3.0 .
3. 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.
4. 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	15
Elective Courses not less than	9
Thesis	12
Plan B	
Prerequisite Courses	Non-Credit
Required Courses	15
Elective Courses not less than	15
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	507	Mathematical Foundations for Computer Science	3(3-0-6)
Required Courses			
ITGT	511	Algorithms and Artificial Intelligence for Computer Games	3(3-0-6)
ITGT	521	3D Graphics and Rendering	3(3-0-6)
ITGT	531	Gamification	3(3-0-6)
ITGT	532	Game Design and Development	3(3-0-6)
ITGT	551	Game Production Management and Marketplace	3(3-0-6)
Elective Courses			
ITGT	522	Virtual Reality	3(3-0-6)
ITGT	523	Computer Vision	3(3-0-6)
ITGT	524	Advanced Animation for Computer Games	3(3-0-6)
ITGT	533	Game Engine Development	3(3-0-6)
ITGT	534	Tools for Computer Games	3(3-0-6)
ITGT	541	Multiplayer Online Game Development	3(3-0-6)
ITGT	542	Game Console Technologies and Programming	3(3-0-6)
ITGT	543	Mobile Game Programming	3(3-0-6)

ITGT	552	Digital Storytelling and Machinima	3(3-0-6)
ITGT	581	Research Methodology and Seminar in Game Technology	3(3-0-6)

Thesis (Plan A (2))

ITGT	698	Thesis	12(0-36-0)

Thematic Paper (Plan B)

ITGT	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 master 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 pdf format (maximum size 2 MB)
- Recent photograph must be in jpeg format only (maximum size 2 MB)

Job option after graduation
1. Game technology and Gamification researcher.
2. Game designer.
3. Game developer.
4. Game analyst and tester.
5. Interactive media producer.
6. Designer and developer of virtual reality simulators.
7. Multimedia developer.
8. Computer graphics developer.
9. Animation developer.

Further information about the programme and scholarship may be obtained from the Director of Graduate Studies, Game Technology and Gamification :

1. **Lect. Mores Prachyabrued** (E-mail : mores.pra@mahidol.ac.th)
   Room IT137, Computing Center Building, Floor 1, Computer Science Academic Group
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   Tel. : 0 2441 0909 ext. 108   Fax.: 0 2849 6099
2. **Lect. Worapan Kusakunniran** (E-mail : worapan.kun@mahidol.ac.th,)
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   Faculty of Information and Communication Technology, Salaya campus
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3. **Lect. Rawesak Tanawongsuwan** (E-mail : rawesak.tan@mahidol.ac.th,)
   Floor 1, Computer Science Academic Group
   Faculty of Information and Communication Technology, Salaya campus
   Tel. : 0 2441 0909   Fax.: 0 2849 6099

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 507	Mathematical Foundations for Computer Science	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