

Admission Number

6	9	0	3	M	S	0	0
---	---	---	---	---	---	---	---

Master of Science Programme in Game Technology and Gamification  
(International Programme - Special Programme)

หลักสูตร วิทยาศาสตร์มหาบัณฑิต

สาขาวิชาเทคโนโลยีเกมและเกมมิฟิเคชัน

(หลักสูตรนานาชาติ - ภาคพิเศษ)

Faculty of Information and Communication Technology คณะเทคโนโลยีสารสนเทศและการสื่อสาร

Expected number of students to be accepted all year round : 20 Students

(Plan A (2) = 10 Students , Plan B = 10 Students)

### Admission Requirements

#### A candidate must:

1. Hold a bachelor's degree in computer science, computer engineering, information technology, information and communication technology, or a related field, from a university accredited by the Office of the Higher Education Commission. In the latter case, the applicant must have at least 15 credits of computer-related courses and have relevant work experience.
2. Have a cumulative GPA of at least 3.00.
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](http://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, Computer	8.00 - 12.00 a.m.
<b>Examination Place</b> Mahidol University , Salaya , Nakhonpathom more details : <a href="http://www.grad.mahidol.ac.th">www.grad.mahidol.ac.th</a>	

## Curriculum Structure

	<b>Credit</b>
<b>Plan A (2)</b>	
Prerequisite Courses	Non-Credit
Required Courses	15
Elective Courses not less than	9
Thesis	12
<b>Plan B</b>	
Prerequisite Courses	Non-Credit
Required Courses	15
Elective Courses not less than	15
Thematic Paper	6
	<b>Credit</b>
<b>Prerequisite Courses</b>	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)
<b>Required Courses</b>	
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)
<b>Elective Courses</b>	
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)
<b>Thesis (Plan A (2))</b>			
ITGT	698	Thesis	12(0-36-0)
<b>Thematic Paper (Plan B)</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](http://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.

#### **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](mailto:mores.pra@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
2. **Lect. Worapan Kusakunniran** (E-mail : [worapan.kun@mahidol.ac.th](mailto:worapan.kun@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
3. **Lect. Rawesak Tanawongsuwan** (E-mail : [rawesak.tan@mahidol.ac.th](mailto: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](mailto: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

**Notes** For more education information : <http://www.grad.mahidol.ac.th>  
: [www.ict.mahidol.ac.th](http://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](mailto:gradthai@mahidol.ac.th)  
Faculty of ICT, Tel. 0 2354 4333, E-mail: [ictadmission@mahidol.ac.th](mailto:ictadmission@mahidol.ac.th)**