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

Faculty of Information and Communication Technology

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.
3. Have a TOEFL ITP score of at least 480, TOEFL Internet-based score of 54 or IELTS score of 5 or MU GRAD TEST score of 60.

Exceptions from the above conditions may be granted by the Programme Committee and the Dean of Faculty of Graduate Studies;

Curriculum Structure

<table>
<thead>
<tr>
<th>Plan A (2)</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>Prerequisite Courses</td>
<td>Non-Credit</td>
</tr>
<tr>
<td>Required Courses</td>
<td>15</td>
</tr>
<tr>
<td>Elective Courses not less than</td>
<td>9</td>
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<td>Thesis</td>
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<tr>
<th>Plan B</th>
<th>Credit</th>
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<tbody>
<tr>
<td>Prerequisite Courses</td>
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<td>Thematic Paper</td>
<td>6</td>
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<table>
<thead>
<tr>
<th>Prerequisite Courses</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>ITCS 503</td>
<td>Design and Analysis of Algorithms</td>
</tr>
<tr>
<td>ITCS 504</td>
<td>Computer System Organization and Architecture</td>
</tr>
<tr>
<td>ITCS 507</td>
<td>Mathematical Foundations for Computer Science</td>
</tr>
</tbody>
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<table>
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<th>Required Courses</th>
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<tr>
<td>ITGT 511</td>
<td>Algorithms and Artificial Intelligence for Computer Games</td>
</tr>
<tr>
<td>ITGT 521</td>
<td>3D Graphics and Rendering</td>
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## Gamification
ITGT 531  Gamification  3(3-0-6)

## Game Design and Development
ITGT 532  Game Design and Development  3(3-0-6)

## Game Production Management and Marketplace
ITGT 551  Game Production Management and Marketplace  3(3-0-6)

### Elective Courses

#### Virtual Reality
ITGT 522  Virtual Reality  3(3-0-6)

#### Computer Vision
ITGT 523  Computer Vision  3(3-0-6)

#### Advanced Animation for Computer Games
ITGT 524  Advanced Animation for Computer Games  3(3-0-6)

#### Game Engine Development
ITGT 533  Game Engine Development  3(3-0-6)

#### Tools for Computer Games
ITGT 534  Tools for Computer Games  3(3-0-6)

#### Multiplayer Online Game Development
ITGT 541  Multiplayer Online Game Development  3(3-0-6)

#### Game Console Technologies and Programming
ITGT 542  Game Console Technologies and Programming  3(3-0-6)

#### Mobile Game Programming
ITGT 543  Mobile Game Programming  3(3-0-6)

#### Digital Storytelling and Machinima
ITGT 552  Digital Storytelling and Machinima  3(3-0-6)

#### Research Methodology and Seminar in Game Technology
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

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**Addition advantages of the program**
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:
1. Completed an Online Application at www.grad.mahidol.ac.th which comprised with
   - Form A : Application Form
   - Form B : Background and Proposed Field of Study
   - Form C : Recommendation Forms (directly submitted by at least 2 referees)
2. Two copies of Degree Certificate (with officially certified English translation)
3. Two copies of Academic Transcript (with officially certified English translation)
4. Two copies of Recent Photos (Passport size)
5. Two copies of Passport
6. Two copies of English certificate (TOEFL/ IELTS/ MU-Grad Test)

(For Doctoral Program)
- TOEFL ITP score of at least 500, TOEFL Internet-based score of 61, or IELTS score of 5
(For Master's Program)
- TOEFL ITP score of at least 480, TOEFL Internet-based score of 54, IELTS score of 5 or MU GRAD TEST score of 60.

Notes
- Only accept TOEFL ITP score from examination center arranged by Faculty of Graduate Studies, Mahidol University.
- TOEFL ITP taken from other domestic and overseas institutes are invalid.
- The test date must be within previous 2 years before application date.
- Applicant who obtained a valid English score must submit an official score certificate along with your application. Otherwise, your English score will not be considered.

7. Two copies of Curriculum Vitae
8. Two copies of Statement of Purposes and Career Goals
9. Two copies of Current bank statement / Scholarship letter (if any)
10. Two copies of Concept paper / research proposal (recommended for all applicants)
11. Two copies of additional documents may be requested by each program (such as letter of work experience / professional license/ related certificates and awards)

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.

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

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   Tel. : 0 2441 0909  Fax.: 0 2849 6099
Program Coordinator

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   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

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