Assessment: Assessment Plan

Degree Program - ENG - Computer Science (MS)

CIP Code: 11.0101.00
Degree Program Coordinator: Rattikorn Hewett
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Program Purpose Statement: The objective of the MSCS is to increase the student's overall depth and breadth in computer science.
Modality: Fully Online (86-99% Online), Face-to-Face

Student Learning Outcome: SLO 1
Students will demonstrate an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
Outcome Status: Active
Outcome Type: Student Learning
Start Date: 09/01/2019

Assessment Methods

Course Level Assessment - Course work in
1) CS 5381-Analysis of Algorithms
2) CS 5383-Theory of Automata
3) CS5384-Logic for Computer Scientists
4) CS 5352-Advanced Operating Systems Design
5) CS 5375 - Computer systems Organization and Architecture
6) CS 5368-Intelligent Systems (Active)
Criterion: 100% of the MSCS students should take at least two courses from 1 - 3 and two course from 4 - 6

Criterion: At least 100% of the MSCS students, who do thesis, project, or report, need to produce a technical report

Exam - Comprehensive Exam (Active)
Criterion: At least 100% of the students taking com exam need to obtain B and above in each course examined through the com. exam

Survey - Student - Survey (Active)
Criterion: on the scale of 1 (no confident) to 5 (highly confident), at least XX% of the students have confidence >= 3 in solving a sample question

Student Learning Outcome: SLO 2
Students will demonstrate an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors
Outcome Status: Active
Degree Program - ENG - Computer Science (MS)

Outcome Type: Student Learning
Start Date: 09/19/2019

Assessment Methods

Field Placement/Internship - Internship (Active)
Criterion: at least 50% of the MSCS students should take internship

Participation - Participate in Research (Active)
Criterion: at least 80% of the students should do thesis or projects, or report option

Survey - Student - Survey (Active)
Criterion: on the scale of 1 (no confident) to 5 (highly confident), at least XX% of the students have confidence >= 3 in solving a sample question

Student Learning Outcome: SLO 3

Students will demonstrate an ability to communicate effectively with a range of audiences

Outcome Status: Active
Outcome Type: Student Learning
Start Date: 09/19/2019

Assessment Methods

Participation - Participation in Seminars (Active)
Criterion: Each MSCS student should participate in at least 10 seminars per year

Field Placement/Internship - Internship (Active)
Criterion: At least 50% of the MSCS students should take an internship position

Survey - Student - Survey (Active)
Criterion: on the scale of 1 (no confident) to 5 (highly confident), at least XX% of the students have confidence >= 3 in solving a sample question

Student Learning Outcome: SLO 4

Students will demonstrate an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts

Outcome Status: Active
Outcome Type: Student Learning
Start Date: 09/01/2019

Assessment Methods

Field Placement/Internship - Internship (Active)
Criterion: At least 50% of the MSCS students should take an internship position
Professional Development Activities - Professional Society Memberships (Active)

**Criterion:** At least 80% of the MSCS students should be a member of professional society (e.g., ACM, IEEE)

Survey - Student - Survey (Active)

**Criterion:** on the scale of 1 (no confident) to 5 (highly confident), at least XX% of the students have confidence >= 3 in solving a sample question

**Student Learning Outcome: SLO 5**

Students will demonstrate an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives

**Outcome Status:** Active

**Outcome Type:** Student Learning

**Start Date:** 09/01/2019

**Assessment Methods**

Field Placement/Internship - Internship (Active)

**Criterion:** at least 50% of the MSCS students should take an internship position

Participation - Participate in Research (Active)

**Criterion:** at least 80% of the students should do thesis or projects, or report option

Survey - Student - Survey (Active)

**Criterion:** on the scale of 1 (no confident) to 5 (highly confident), at least XX% of the students have confidence >= 3 in solving a sample question

Student Learning Outcome: SLO 6

Students will demonstrate an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions

**Outcome Status:** Active

**Outcome Type:** Student Learning

**Start Date:** 09/01/2019

**Assessment Methods**

Participation - Participate in Research (Active)

**Criterion:** at least 80% of the students should do thesis, project, or report option

Professional Development Activities - Publications and Reports (Active)

**Criterion:** at least 70% of the students should develop at least a technical report/article before graduation

Survey - Student - Survey (Active)

**Criterion:** on the scale of 1 (no confident) to 5 (highly confident), at least XX% of the students have confidence >= 3 in solving a sample question
## Degree Program - ENG - Computer Science (MS)

### Student Learning Outcome: SLO 7

Students will demonstrate an ability to acquire and apply new knowledge as needed, using appropriate learning strategies

**Outcome Status:** Active  
**Outcome Type:** Student Learning  
**Start Date:** 09/01/2019

### Assessment Methods

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<tr>
<th>Participation - Participate in Research (Active)</th>
<th>Criterion: at least 80% of the MSCS students should do thesis, project, or report option</th>
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<tr>
<td>Survey - Student - Survey (Active)</td>
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