Student Learning Outcomes/Objectives, with Any Associations and Related Measures, Targets, Findings, and Action Plans

SLO 1: Communicate the acquired knowledge in written form

Students will have in-depth knowledge in one of the eight subfields of computer science (theoretical computer science, systems and network, software systems, software engineering, information assurance, database systems and distributed applications, computer graphics and visual computing, and artificial intelligence). Students will also acquire basic knowledge in three different subfields in addition to their in-depth subfields. The computer science graduates will be able to communicate the acquired knowledge in written form.

Related Measures

M 1: Masters Examination Report
Masters Examination Report
Source of Evidence: Academic direct measure of learning - other

Target:
All students electing to complete a thesis complete an in-depth research project of substantial scope by graduation; all students not electing to complete a thesis are proficient in a broad range of sub-disciplines within computer science.

M 2: Refereed publications
Refereed publications
Source of Evidence: Academic indirect indicator of learning - other

Target:
All students electing to complete a thesis produce a manuscript of publishable quality reporting the results of their research; all students not electing to complete a thesis are able to communicate a comprehensive knowledge of computer science at the graduate level in writing.

SLO 2: Communicate the acquired knowledge in oral form

The computer science graduates will have the ability to communicate the acquired knowledge in at least one of the eight computer science subfields (theoretical computer science, systems and network, software systems, software engineering, information assurance, database systems and distributed applications, computer graphics and visual computing, and artificial intelligence) effectively in oral form.

Related Measures

M 1: Masters Examination Report
Masters Examination Report
Source of Evidence: Academic direct measure of learning - other

Target:
All students not electing to complete a thesis are able to communicate a comprehensive knowledge of computer science at the graduate level in oral form by successfully making an oral presentation before a jury of the faculty on a topic of their choice.

M 3: Departmental Seminar Presentation Reports
Departmental Seminar Presentation Reports
Source of Evidence: Presentation, either individual or group

Target:
All students who complete a thesis are able to present an in-depth, professional lecture on a current research topic before graduation.

SLO 3: Analyze problems and synthesize solutions

Students will have the ability to analyze complex computational or software developmental problems and synthesize solutions with implementations by applying acquired knowledge in three of the eight computer science subfields (theoretical computer science, systems and network, software systems, software engineering, information assurance, database systems and distributed applications, computer graphics and visual computing, and artificial intelligence).