

# Computer Science Research

## Rationale

The Computer Science Ph.D. Program aims to prepare its students to become outstanding scholars and leaders in both industry and academic institutions in the broad field of Computer Science and Technology. To achieve this goal, one of the most important skills that students must develop during their PhD study is the ability of doing and communicating innovative research. That is, to be able to learn from existing literature, identify unsolved problems, propose inventive and effective approaches to solve the problems, communicate and present their work before others, and publish their research in well-established professional journals and conferences.

## Description

The main purpose of this course is to allow a reasonable number of credit hours for a student to work on his/her Thesis research. This course will be conducted flexibly, with the ultimate goal of having each of the registered students working on his/her thesis related research project for a minimum of 80 hours a semester and present their research to the class. The evaluation metrics include extensive literature survey, production of conference and journal papers, publishable research work, and project results being ready for submission.

## Learning Goals/Outcomes

The students will gain ability to conduct research, become familiar with their field, learn to present a coherent explanatory talk, and produce publishable research results.

## Assessment

The instructor will make sure that the students will gain proper experience in doing research in their own field. Important assessment metrics include extensive literature survey, coherent understandable presentation to the class, production of a paper for a conference or journal, or have a project result ready for submission.