Active Learning in Classes

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Classes Involving Active Learning

• 2010 Spring
  – CS 4/552 Network Protocol Internal
    www.iit.edu/~ywu24/cs452.html
  – CS 350 Network Architectures
    www.iit.edu/~ywu24/cs350.html
  – CS110 Computer Science I
    www.iit.edu/~ywu24/cs110.html
Background

• CS110
  – Programming class but elementary class

• CS350, CS4/552
  – Theoretical classes in networks without lab requirement in department’s schedule
Active Learning

• Group project in cs110
  – Team spirit
  – Possible to assign practical programming problems
• Projects in cs350 and cs4/552
  – Bridge the theory and practice
  – Using software which used in the industry
• Presentation in cs4/552
Active Learning

• Class Contents
  – Cs110
  – Cs350, cs4/552

• Projects
  – Hangman
  – Chess
  – Enigma Machine
  – Wireshark
  – Client/Server communication by sockets

• Presentations
  – SSL
  – DOS attacks
  – Game Theory
Results

• Interested in class lectures
  – Students sent me email that the projects are interesting
  – Other students in other departments queried about these classes in next semester
  – Some students are asking for doing research under supervision

• Help to understand the key knowledge points in the class

• Widen students’ horizon in related area
  – Students can choose the part which they feel interesting to dig (by choose different presentation topics)