

Department of Computer Engineering

COE 443: High-Speed Networks – Spring 2001 (002)

Section 01: SMW 12-12:50 Bldg 22 Room 335

COE 443 (course project):

The purpose of the project is mainly to design a network for a fictitious client who owns a nationwide company. The project is made of two parts: market survey and network design using OPNET.

Tasks:

1. To question the client for requirements
2. To conduct market survey on possible technologies
3. To design a network that is cost effective and expandable
4. To study the performance of the proposed network design using OPNET and build case studies for worst case traffic scenarios

Tools:

The tool used to conduct the project is OPNET Planner (currently ITDG). Each student has to design the proposed network using OPNET and check the design. Then several scenarios have to be produced by the student to prove the correctness of the design and show the fulfillment of the client's requirements. Also it is recommended to have some futuristic consideration such as network expansion and new application deployment, which might be bandwidth-hungry or time critical.

Project Schedule:

- Two weeks to learn OPNET.
- One week to conduct the survey.
- One week to code the design in OPNET
- One week to do “*what-if*” scenarios.
- One week for presentations and discussion of selected projects.