FDA066 Human Factors Research Methodology and Field Experimentation - HMI503 (HMI)

Lectures:

45 h.

Recommended for

Graduate students.

The course was last given:

Fall 2001.

Goals

This course is an introduction to scientific research methodology focusing primarily on various methods of data collection and analysis in field research.

Prerequisites

Graduate Student status or advanced undergraduate.

Organization

15 x 3 hours/week.

Contents

Ethics in research, Field experimentation, Laboratory versus field research, Quasi-experimental design, Validity and reliability of measurement. Critique of scientific articles. Various methods for studying human performance and collecting data including: use of behavioral taxonomies, task analysis, system analysis, verbal protocols, questionnaires, surveys, scaling, and psychophysics.

Literature

Cook, T.D., and Campbell, D.T. (1979). Quasi-Experimentation: Design & Analysis Issues for Field Settings. Houghton Mifflin Company, U.S.A. Wilson, J.R., and Corlett, E.N. (Eds.) (1995). Evaluation of Human Work - A practical

wilson, J.R. and Corlett, E.N. (Eds.) (1995). Evaluation of Human Work - A practica ergonomics methodology. Taylor & Francis, Great Britain. Research articles

Teachers Fang Chen, IKP.

Examiner Kjell Ohlsson.

Schedule

Fall 2002.

Examination Home works, Two written tests.

Credit

5 credits.