

The Department of Mechanical Engineering is looking for Part-Time Lecturers for Fall 2003 to teach the following courses in the area of Human Factors:

Introduction to Human Factors and Ergonomics

An introduction to general principles of human factors and ergonomics in safe and effective workplace design. Topics to be covered include biomechanics, anthropometry, workspace design, work physiology, human sensory processes, information processing, displays and control, safety and human error.

This course is the first course for students in the Engineering Psychology program.

Man-Machine System Design

This course builds on the practical human factors topics introduced in the prerequisite courses, with more emphasis on fundamental human cognitive and performance issues. This course emphasizes the importance of taking into account the human operator's capabilities and limitations in information processing, in the design of effective human-machine systems. It will examine how research on human information processing in Engineering Psychology can be applied to the design of complex human-machine systems. Topics include: human information processing, decision-making, reaction time and signal detection theory. Application areas include computer interface design, decision support systems, automated systems, and medical systems. Laboratory projects and individual research projects will be conducted.

The course is for seniors and first-year graduate students in the Engineering Psychology program.

Instructor qualification:

Minimum Master's Degree in Human Factors, Ergonomics, Usability Engineering, Systems Engineering or related field with relevant industry experience. Teaching experience and/or Ph.D preferred. Good communication skills.

Please submit CV and names/address of 3 references to Anil Saigal, Department of Mechanical Engineering, Tufts University, Medford, MA 02155 or contact him at 617.627.2549 or asaigal@tufts.edu. Rev/app begins immediately and continues until position is filled.