# Supporting the human in technological contexts: Issues in meaning, cognition and design

Prof. Vivek Kant,
Indian Institute of Technology, Bombay

## Abstract:

Incorporation of humans in complex safety-critical systems is one of the most fundamental challenges of human factors. This challenge requires an understanding of human as a system component and the system as the human's environment. In addition, there is a need for design, modelling and simulation tools, as well as concepts and frameworks for aiding the humans in their everyday tasks. The aim of this presentation is to briefly highlight the challenges involved in supporting the human in technological contexts. Drawing from cognitive and behavioural sciences, this presentation will highlight the challenges that designers need to attend while designing for the humans in complex systems. The presentation will briefly introduce Cognitive Work Analysis (CWA) and Ecological Interface Design (EID) as a framework for designing for the human in complex safety-critical systems.