

User Experience Design Overview

Introduction *week 1*

Key ideas

Iterative, user-centred, designers' conceptual models, users' mental models.

Questions to consider

System purpose, users, expertise, issues, resolutions, changing assumptions.

Usability and accessibility

Rise of usability, importance of accessibility, dialogue.

Cognition *week 2*

Key ideas

Computational offloading, Norman's seven stages of action.

Types of cognition

Perception, interpretations, attention (selective/focused, divided, sustained).

Memory

Types of memory, Gestalt psychology, recognition vs recall, learning, affordances.

Usability and Accessibility *week 3*

Key ideas

What is measured, benefits.

Heuristics

Norman's design principles, Nielsen's usability heuristics.

User differences

Cultural, situational impairment, accessible design, assistive technology.

Quantitative Data *week 9*

Questionnaires

Open/closed questions, question design, common errors, standard questionnaires.

User feedback

Observation, physiological data, performance metrics.

Data Analysis *weeks 10 & 11*

Visualising data

Distributions, averages, spread.

Sampling

Simple random, convenience.

Comparing datasets

Simple difference, Cohen's d , confidence intervals, null hypothesis, p -value, independent variables, parametric/non-parametric tests, t -tests, r value.