

HFS306 User Centred Design for Interactive Systems

Level: 3

Credit Units: 5 Credit Units

Language: ENGLISH

Presentation Pattern: EVERY JAN

Synopsis:

This course equips students with the fundamental principles of designing systems that takes into consideration the cognitive capabilities and limitations of people, as well as their physical and emotional needs. The course covers the more traditional concepts of human-computer interaction, such as requirement analysis, usability design principles guidelines and user evaluation methods, as well as contemporary issues in user centred design such as emotion and persuasive design and user experience design. Students are equipped with knowledge and skills to deal with issues, topics, and methods in designing interactive systems that supports human activity at work and play.

Topics:

- History of Interaction Design: From Functionality to User Experience Design
- Cognitive Theories for Interaction Design
- User Needs and Requirement Analysis
- User Centred Design Process
- Interface Types
- User Centred Design Principles
- Interactive Design Patterns and Guidelines
- Pleasurable and Persuasive Design
- Prototyping Methods
- Usability Evaluation Methods
- Designing for Special Populations
- Contemporary Issues in Interactive and Experience Design

Textbooks:

: Interaction Design: Beyond Human-Computer Interaction By Helen Sharp, Jennifer Preece, Yvonne Rogers 2019 2019 John Wiley
ISBN-13: 9781119547303

Learning Outcome:

- Describe what interaction design is and how to conceptualize interaction.
- Explain what cognition is and why it is important for interaction design.
- Illustrate how different data gathering techniques are used for requirements analysis.
- Evaluate appropriateness of interface types and models and design concepts.
- Use of design principles and usability guidelines in user centred design.
- Apply appropriate methods of systems evaluation.

Assessment Strategies (Evening Class):

Components	Description	Weightage Allocation (%)
Overall Continuous Assessment	QUIZ 1	10
	TUTOR-MARKED ASSIGNMENT 1	20
Overall Examinable Components	ECA	70
Total		100