

COURSE TITLE: Human-Computer Interaction (HCI)

COURSE CODE: S2024_62FIT3HCI

COURSE PASSWORD: S2024%HCI

COURSE OVERVIEW

HCI is the study of how humans interact with computers. This course will introduce you to the principles of HCI and how they can be applied to create effective, user-friendly interfaces.

COURSE OBJECTIVES

By the end of this course, students will be able to:

- Understand the fundamental principles of HCI
- Apply HCI principles to the design of user interfaces
- Evaluate the effectiveness of user interfaces
- Design and prototype interactive systems
- Understand the impact of cultural factors on HCI design

COURSE SCHEDULE

Week , Topic

- 1 Introduction & Motivation
- 2 Cultural Factors in HCI Design
- 3 Computer Revolution and Trends Forecast to 2050
- 4 Prototyping
- 5 Usability Paradigms and Principles
- 6 Design Evaluation
- 7 Emotional Design
- 8 UI & UX
- 9 Midterm Test
- 10 Adaptive and Personalized Interfaces
- 11 Interactive Data Exploration, Presentation, and Natural UI
- 12 Psychology in Design
- 13 Robots, Avatars, and Virtual Humans
- 14 Backup & Final Project Submission

FINAL PROJECT GUIDELINES

- **Groups:** 6-8 students per group
- **Project Type:** Web application
- **Deliverables:**
 - Runnable prototype
 - Prototype documentation including explanations of design principles (usability, objectives, functionality, etc.)
- **Submission:** Flash drive

ASSESSMENT

- **Class Participation:** 20% (10% lectures, 10% tutorials)
- **Seminar:** 20% (Presenter: 20%, Reviewer: 10%)
- **Midterm Test:** 30%
- **Final Project:** 40%

RESOURCES

- **Textbook:** Human-Computer Interaction (3rd Ed.) by Alan Dix, Janet Finlay, Gregory Abowd, Russell Beale, Prentice Hall, 2003

REGULATIONS

- No laptops in class
- Seminar presentations must be submitted in advance
- Late submissions will be penalized

FINAL PROJECT SUBMISSION INSTRUCTIONS

1. All classes will submit their projects on a single flash drive.
2. Projects must be submitted in a folder named according to the following format:
CLASS_GROUPNo
3. Each student must submit two files (prototype document, principle explanation) named as follows: IDSinhVien_LoaiFile_TenUC (e.g.,
1401040024_Prototype_AccountRegistration, or
1401040024_Principle_AccountRegistration).

IMPORTANT NOTES

- All students are responsible for their own group's information and submissions.
- Groups must register their information by the deadline.
- Failure to comply with submission guidelines may result in penalties or disqualification.