



FORMAN CHRISTIAN COLLEGE (A Chartered University)
Spring 2023
COMP 405 – Human Computer Interaction (3 CH)
Course Outline and Lesson Plan

Instructor Information:

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Office Hours: TR from 17:00 till 19:00

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Course Description:

Exploration of the differences in information processing by humans and machines using insights from psychology and cognitive science, design of human-computer interfaces and systems involving both human and computer components.

Pre Requisite:

COMP 220 - Software Engineering

Upon successful completion of the course, students will be able to:

- Understand the basics of human and computational abilities and limitations.
- Understand basic theories, tools and techniques in HCI.
- Understand the fundamental aspects of designing and evaluating interfaces.
- Practice a variety of simple methods for evaluating the quality of a user interface.
- Apply appropriate HCI techniques to design systems that are usable by people.

Text Book:

- Human-Computer Interaction, Third edition, Dix et al.
- The Design of Everyday Things, Don Norman
- Human Computer Interaction: An Empirical Research Perspective by Scott MacKenzie

Reference Books:

- About Face 3: The Essentials of Interaction Design, Alan Cooper, Willey.
- Designing the UI, Ben Shneiderman & Catherine Plaisant, Addison Wesley.
- GUI Bloopers 2.0: Common User Interface Don'ts and Dos, Jeff Johnson, Morgan Kaufmann.
- Usability Engineering, Jacob Nielsen, Elsevier.

Assessment Criteria:

Quizzes	10%
Midterm Exam	30%
Final Exam	35%
Project	25%
Total	100%

Tentative Lesson Plan:

Week	Contents
1 -2	Intro to HCI, Gestalt Laws, Information Content, Visibility and Affordances
3-4	Seven Stages of Action, Mappings and Constraints
5-6	Knowledge in the Head, Visibility, Errors and Slips
7-8	Golden Rules and Responsiveness
9-10	DIA Cycle
11-12	Prototyping
13-15	Evaluation with and without users