

FACULTY OF COMPUTER APPLICATIONS
B.Sc.(IT) (Cloud & Application Development)

- **Sem.** :6
- **Subject Code** : 05CA0601
- **Subject** : UI/UX Design

- **Course Objectives:** Students will be able:
 1. Understand fundamental theories and models related to Human-Computer Interaction (HCI).
 2. Identify and differentiate between various interaction styles used in user interface (UI) design.
 3. Explain the principles of naming conventions and abbreviation practices in UI development.
 4. Analyze user interface design based on best practices and usability principles.

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Unit No	Topics Covered	No of hours required
1	Introduction to HCI <ul style="list-style-type: none"> ▪ Human-Computer Interaction Foundations ▪ Models & Theories, Programming interactive systems 	10
2	User Interface Design <ul style="list-style-type: none"> ▪ The Design Process ▪ Interaction Styles ▪ Naming & Abbreviations. 	10
3	Mobile UI Design <ul style="list-style-type: none"> ▪ Mobile Interaction Styles: Keypads, Touchpads, Gestures, Disruption & Innovation, Design Tools. 	12
4	Best Practices in UI Design <ul style="list-style-type: none"> ▪ Mobile UI Best practices – HTML & CSS ▪ Mobile UI Best practices – JS 	13

Course Outcomes:

1. Describe fundamental design concepts and their relevance to user experience.
2. Explain the core principles and components of user interface (UI) design.
3. Apply appropriate methods to design intuitive and responsive mobile user interfaces.
4. Design and develop effective and user-centered web interfaces using standard design practices.

Course Outcomes – Program Outcomes Mapping Table:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO 1	PSO 2	PSO 3
CO1	H	M	H	-	-	M	-	M	H	-	M
CO2	M	H	M	-	-	L	-	-	-	M	-
CO3	H		L	-	-	M	-	-	L	L	M
CO4	M	-	M	-	-	L	-	-	-	-	L

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Reference Books:

- Best Practices in UI Design
- Mobile UI Best practices – HTML & CSS
- Mobile UI Best practices – JS

Web Reference:

- <https://www.coursera.org/specializations/ui-ux-design>

App Reference:

- Udemy – Master Web & Mobile Design: Figma, UI/UX Essentials

Syllabus Coverage from text /reference book & web/app reference:

Unit	Chapter Numbers
1	Book 1 – Chapter 1, 2, 3
2	Book 2 – Chapter 4, 5, 6
3	Book 2 – Chapter 7,8,10
4	Book 3 – Chapter 11,12,13