COURSE MODULE OF THE SUBJECT TAUGHT FOR THE SESSION 2024-25

(ODD SEM)

Course Syllabi with CO's

Faculty Name: Mrs. Sushma V							**Academic Year: 2024 – 2025**
Department: Computer Science & Engineering							
Course Code	**Course Title**	**Core/Elective**	**Prerequisite**	**Contact Hours**			**Total Hrs/ Sessions**
				L	**T**	**P**	
21IS733	User Interface Design	Elective	Knowledge of Software Development Techniques	3		-	40
Objectives	**Course Learning Objectives:** 1. **CLO 1. To study the concept of menus, windows, interfaces.** 2. **CLO 2. To study about business functions.** 3. **CLO 3. To study the characteristics and components of windows and the various controls for the windows.** 4. **CLO 4. To study about various problems in windows design with color, text, graphics and** 5. **CLO 5. To study the testing methods.**						
Topics Covered as per Syllabus							
Module 1 The User Interface-Introduction, Overview, the importance of user interface – Defining the user interface, The importance of Good design, Characteristics of graphical and web user interfaces, Principles of user interface design Textbook 1: RBT: L1, L2 **Module 2** The User Interface Design process- Obstacles, Usability, Human characteristics in Design, Human Interaction speeds, Business Functions-Business definition and requirement analysis, Basic business functions, Design standards. Textbook 1: t-2 RBT: L1, L2 **Module-3** System menus and navigation schemes- Structures of menus, Functions of menus, Contents of menus, formatting of menus, Phrasing the menu, selecting menu choices, Navigating menus, Kinds of graphical menus. RBT: L1, L2 **Module-4** Windows - Characteristics, Components of window, Window presentation styles, Types of window, Window management, Organizing window functions, Window operations, Web systems, Characteristics of device based controls.							

RBT: L1, L2

Module-5

Screen based controls- Operable control, Text control, Selection control, Custom control, Presentation control, Windows Tests-prototypes, kinds of tests.

RBT: L1, L2

List of Text Books

1. Wilbert O. Galitz, "The Essential Guide to User Interface Design", John Wiley & Sons, Second Edition 2002.

List of Reference Books

1 Ben Sheiderman, "Design the User Interface", Pearson Education, 1998.

2. Alan Cooper, "The Essential of User Interface Design", Wiley- Dream Tech Ltd.,2002

List of URLs, Text Books, Notes, Multimedia Content, etc

Course Outcomes	CO 1. Understand importance and characteristics of user interface design CO 2. Apply user interface design process on business functions CO3. Demonstrate system menus, navigation schemes and windows characteristics CO 4. Analyze screen based controls and device based controls CO 5. Design the prototypes and test plans of user interface

Internal Assessment Marks: The question paper will have ten questions.

- Each full Question consisting of 20 marks
- There will be 2 full questions (with a maximum of four sub questions) from each module.
- Each full question will have sub questions covering all the topics under a module.
- The students will have to answer 5 full questions, selecting one full question from each module.

The Correlation of Course Outcomes (CO's) and Program Outcomes (PO's)

Subject Code:	**21IS734**		**TITLE: User Interface Design**			**Faculty Name:**		Mrs. Sushma V				
List of Course Outcomes	**Program Outcomes**											**Total**
	PO-1	**PO-2**	**PO-3**	**PO-4**	**PO-5**	**PO-6**	**PO-7**	**PO-8**	**PO-9**	**PO-10**	**PO-11**	**PO-12**	
CO-1-L3	**2**	**2**			**2**								**6**
CO-2-L3	**2**	**2**											**4**
CO-3-L3			**2**										**4**
CO-4-L3			**2**										**2**
CO-5-L3			2										**4**

Note: 3 = Strong Contribution 2 = Average Contribution 1 = Weak Contribution 0 = No Contribution

Subject Code:	21IS733	TITLE: User Interface Design	Faculty Name:	Mrs. Sushma V

List of Course Outcomes	Program Specific Outcomes		Total
	PSO-1	PSO-2	
CO-1	-	-	-
CO-2	-	-	-
CO-3	-	-	-
CO-4	-	-	-
CO-5	-	-	-
Total	-	-	-

Note: 3 = Strong Contribution 2= Average Contribution 1 = Weak Contribution - = No Contribution

PSO1: Ability to apply skills in the field of algorithms, database design, web design, cloud computing and data analytics.

PSO2: Apply knowledge in the field of computer networks for building network and internet based applications.