NIRMA UNIVERSITY

Institute:	Institute of Technology, School of Technology
Name of Programme:	MTech CSE
Course Code:	6CS379ME25
Course Title:	UI-UX Design
Course Type:	Department Elective-III
Year of Introduction:	2025-26

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	earning Outcomes (CLO): I of the course, students will be able to –							
	n the iterative user-centered design of graphical	use	r inte	erfaces			Æ	3L2)
	the user interfaces to different devices and requi							3L3)
	te UX design, including information modelling	, req	uirer	nent gath	nering,	and		3L5)
	at management	1	1				(*	
4. create	high-fidelity visual designs using design princip	ples	and g	guideline	es.		(E	3L6)
Unit	Contents					1	Feacl	ning
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Unit-I	Introduction to UI/UX: What is User Internet Relationship Between UI and UX, Roles in U						08	\$
	Overview of Interface Design, Interface Cor							
	Screen Based UI, Template vs Content, Form							
	Design, Active Elements of Interface Design,							
	of Interface Design, UI Design Process, Visua	al Co	omm	unication	1 desig	n		
Unit-II	component in Interface Design The foundation of UX design: Good and po	or d	ecion	Under	tandin	a	08	
omt n	Your Users, Designing the Experience, Elem					-	00	,
	Visual Design Principles, Functional Lay			*				
	Introduction to the Interface, Navigation		-		-			
	Developing and Releasing Your Design, Info							
	sitemaps, User journey maps, Interaction desi of grids & page types, Developing low/high fi					V		
Unit-III	User Research: Role of research in the UX of		-			V	04	
	of research methods, Introduction to heurist							
X T	personas and empathy maps	1 .		1 1.			0	
Unit-IV	Visual Design and UI: Principles of visual Theory, Colour & typography for UI, I						07	
	interactions, understanding various sections o							
	Android), Converting wireframes into high							
	Design for devices: understanding web & mol	oile			0			
Unit-V	UX Strategy: Information modelling: hierar						08	
	Gathering requirements, working with con							
	schema, labelling, way-finding, Overview of Understanding mobile apps, Design process						1)
	management	,	1044		Projec		(2
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	133					-	1	

Unit-VI **Brand Experience Design:** Brand strategy: business goal, purpose, values, audience, persona and positioning; Elements of visual identity: typography, colour, iconography, patterns, Visual design for various page types; Introduction to design system: elements, components, patterns, pages and assets, and portfolio development.

Self-Study:

The self-study contents will be declared at the commencement of the semester. Around 10% of the questions will be asked from self-study content.

Suggested Readings/ References:

- 1. Russ Unger and Carolyn Chandler, A Project Guide to UX Design: For user experience designers in the field or in the making, New Riders Publishing
- 2. Jesse James Garrett, The Elements of User Experience: User-Centred Design for the Web and Beyond, Second Edition, Pearson Education
- 3. Wilbert O. Galitz, The Essential Guide to User Interface Design: An Introduction to GUI Design Principles and Techniques, Wiley
- 4. Alan Cooper, Robert Reimann, David Cronin, and Christopher Noessel, About Face: The Essentials of Interaction Design, Wiley
- 5. Steve Krug, Don't Make Me Think: A Common-Sense Approach to Web Usability, New Riders Publishing
- 6. Don Norman, The Design of Everyday Things, Basic Books
- 7. Steve Portigal, Interviewing Users: How to Uncover Compelling Insights, Rosenfeld Media
- 8. Leah Buley, The User Experience Team of One: A Research and Design Survival Guide, Rosenfeld Media
- 9. Ellen Lupton, Thinking with Type: A Critical Guide for Designers, Writers, Editors, & Students, Princeton Architectural Press
- 10. Jaime Levy, UX Strategy: How to Devise Innovative Digital Products that People Want, O'Reilly
- 11. Alina Wheeler, Designing Brand Identity: An Essential Guide for the Whole Branding Team, Wiley.

Suggested List of Experiments:

5	Sr. No.	Name of Experiments/Exercises		
	1	Working on a visual design that includes lines, spaces, textures, negative	02	
		spaces, spacing, Font properties, Colors, and Filling empty parts with		
		visuals		
	2	Identify some key UX influencers and try to categorize them into one or two	04	
		of the quadrants		
	3	Recreating an excellent existing design pixel-for-pixel, Filters, Sort UI	02	
	4	Identify and implement Content Strategy related concepts	02	
	5	To implement a personal learning project	02	
	6	To design a portfolio project using UI-UX	04	
	7	A real app or site design 1-3 screens of an app/website	02	
	8	To design a Product Page for an e-commerce website	04	
	9	To design a Portfolio Site Splash Page	04	
	10	To design a Pricing Page for a SaaS Startup.	04	

10