21INT07	HUMAN COMPUTER INTERACTION	L	Τ	P	С
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 <u>Course Objectives</u> To learn the foundations of Human Computer Interaction. To become familiar with the design technologies for individuals and persons with disabilities. To be aware of mobile HCI. To learn the guidelines for user interface. 					
UNIT I	FOUNDATIONS OF HCI	9 Hours			
The Human: I/O channels – Memory – Reasoning and problem solving; The Computer: Devices – Memory – processing and networks; Interaction: Models – frameworks – Ergonomics – styles – elements – interactivity-Paradigms Case Studies					
UNIT II	DESIGN & SOFTWARE PROCESS		9 E	Iours	
Interactive Design: Basics – process – scenarios – navigation – screen design – Iteration and prototyping. HCI in software process: Software life cycle – usability engineering – Prototyping in practice – design rationale. Design rules: principles, standards, guidelines, rules. Evaluation Techniques – Universal Design					
UNIT III	MODELS AND THEORIES		9 E	Iours	
HCI Models: Cognitive models: Socio-Organizational issues and stakeholder requirements – Communication and collaboration models-Hypertext, Multimedia and WWW.					
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UNIT IV	MOBILE HCI		9 E	Iours	
Mobile Ecosystem:	Platforms, Application frameworks- Types of Mobile - Mobile Information Architecture, Mobile 2.0, Mobile Desig		ication	s: W	-
Mobile Ecosystem: Applications, Games	Platforms, Application frameworks- Types of Mobile - Mobile Information Architecture, Mobile 2.0, Mobile Desig		ication lement	s: W	-
Mobile Ecosystem: Applications, Games Design, Tools Case UNIT V	Platforms, Application frameworks- Types of Mobile - Mobile Information Architecture, Mobile 2.0, Mobile Desig Studies WEB INTERFACE DESIGN faces – Drag & Drop, Direct Selection, Contextual Tools, Over	gn: E	ication lement 9 E	s: W s of I	Mobile
Mobile Ecosystem: Applications, Games Design, Tools Case UNIT V Designing Web Inter Pages, Process Flow Course Outcomes Upon complet Design effectiv Design effectiv Assess the imp Explain the HC Develop meanie Text books: 1. Alan Dix, Jane	Platforms, Application frameworks- Types of Mobile - Mobile Information Architecture, Mobile 2.0, Mobile Design Studies WEB INTERFACE DESIGN faces – Drag & Drop, Direct Selection, Contextual Tools, Over - Case Studies	gn: E rlays, Web	ication lement 9 H Inlays	s: W s of and	Mobile

Reference Books:

1. Alan Dix, Janet Finlay, Gregory Abowd, Russell Beale, —Human Computer Interaction, 3rd Edition, Pearson Education, 2004

- 2. Brian Fling, -Mobile Design and Developmentl, First Edition, O'Reilly Media Inc., 2009
- 3. Bill Scott and Theresa Neil, —Designing Web Interfaces, First Edition, O'Reilly, 2009.