SWE1018		Human Computer Interaction		L	Т	Р	J	С		
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Pre-requisite		None		Sy	llab	us v	er	sion		
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Course Obje	ectives:									
1. To understand guidelines, principles, and theories influencing human computer										
	interaction.									
	2. To synthesize mock ups and carry out user and expert evaluation of interfaces									
3. To comprehend the steps of experimental design, and evaluation of human computer										
interaction systems.										
Expected Course Outcome:										
1.	Indentify	the capabilities of both humans and comp	uters from the v	viewpo	int	of I	านเ	man		
information processing.										
2. Understand the guidelines and design process for designing HCI systems.										
	3. Study human–computer interaction (HCI) models, styles, and HCI paradigms.									
	4. Apply an interactive design process and universal design principles for designing HCI systems.									
6. Identify and choose from a variety of user research and evaluation techniques										
7. Identify HCI issues in groupware, ubiquitous computing, virtual reality, multimedia, and Word										
Wide Web-related environments.										
8.	Apply ev	aluation and usability testing methods for valida	ating interactive p	roduc	ts					
		(2.2)								
		tcomes (SLO) 2,6	_							
Module:1	Introd	uction to Human Computer Interaction	5	hours						
Human Con	nnutor l	nteraction and its frameworks, Principles of	HCI Types of Ir	torac	tion	ctv	00	ЦСІ		
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Guidelines.										
Module:2	Humar	n factors as HCI Theories	6	hours						
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Human Info	rmation I	Processing – Task Modeling and Human Probler	n Solving model:	Humai	n Rea	actio	าท	and		
		ve Performance; Sensation and Perception of In	_							
TEUICHOITU	Cognitiv	re i errormance, sensation and i erception of in	ioimation, numai	i bouy	LIE	0110		CS		
Module:3	HCI De	sign	5	hours						
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User interface layer and its execution Framework, Input /Output processes, UI Development Toolkit,

6 hours

Interface Selection Options, Wire-Framing, Naïve Design Example.

User Interface Layer and Methodology

Interactive System development Framework, Case studies on MVC.

Module:4

Module:5		Evaluation Techniques	6 hours					
Goals and types of Evaluation, Evaluation through Expert analysis, Evaluation through user Participation,								
Choosing an evaluation method.								
Module:6		Contemporary issues: Applications of Human	2 hours					
		computer interaction in industry						
		Total Lecture hours:	30 hours					
Text Book(s)								
1.	Gerard Jounghyun Kim, Human Computer Interaction – Fundamentals and Practice, – CRC press,							
	2015.							
Reference Books								
1. Julie A. Jacko, The Human–Computer Interaction Handbook: Fundamentals, Evolving Technologies,								
and Emerging Applications, 3 rd Edition, CRC Press (Taylor & Francis Group) 2012.								
Ben Shneiderman, Catherine Plaisant, Maxine Cohen, Steven Jacobs, Designing the User Interface:								
2.	Strategies for Effective Human Computer Interaction, 5 th Edition, Pearson, 2009.							
۷.								
	Alan Dix, Janet E. Finlay, Gregory D. Abowd, Russell Beale, Human - Computer Interaction, 3 rd Edition,							
3.	Pearson, 2003.							