MOHAMMED SATHAK A J COLLEGE OF ENGINEERING

Siruseri IT park, OMR, Chennai - 603103

		LESSON	PLAN					
	Dep	artment of <u>Inforn</u>	naton Technol	ogy				
Name of t	the Subject Human Computer Interac	tion		ame of the	D. Weslin			
Sul	bject Code CS8079		,	Year / Sem	IV/VII			
	Acad Year 2022-23			Batch				
		Course Ob	l oiective		2019-23			
To learn th	he foundations of Human Computer Interaction	Course on	jeenve					
	e familiar with the design technologies for individuals a	nd persons with dis	abilities					
	ure of mobile HCI. he guidelines for user interface.							
10 leath th	ne guidennes for user interface.							
		Course Ou	itcome					
	fective dialog for HCI							
	fective HCI for individuals and persons with disabilities							
	e importance of user feedback.							
	ne HCI implications for designing multimedia/ ecommerc	ce/ e-learning Web	sites.					
Develop m	neaningful user interface.							
		Lesson I	Plan					
Sl. No.	Topic(s)	T / R*	Periods	Mode of Teaching	Blooms Level (L1-	CO	PO	
DI. 110.	_	Book		(BB / PPT / NPTEL /	L6)		10	
	UNI	Γ I -FOUNDAT	TIONS OF	HCI				
	The Human: I/O channels	T	1	PPT	L1	1	1,2,3	
	Memory – Reasoning and problem solving	T	1	PPT	L2	1	1,2,3	
	The Computer: Devices	T	1	PPT	L2	1	1,2,3	
	Memory	<u>T</u>	1	PPT	L2	1	1,2,3	
	processing and networks;	T	1	PPT PPT	L2 L2	1	1,2,3	
	Interaction: Models – frameworks	T	1	PPT	L2 L2	1 1	1,2,3 1,2,3	
	Ergonomics – styles elements – interactivity- Paradigms.	T T	1	PPT	L2 L2	1	1,2,3	
	Case Studies	T	1	PPT	L2 L3	1	1,2,3	
	l Activity: Assignment / Case Studies / Tuorials/ Qu					1	1,2,3	
	on method - MCQ	iz / Willia i Tojects	/ 1110del Deve	roped, others rame	u ii uiij			
	UNIT II - I	DESIGN & SO	FTWARE 1	PROCESS				
10	Interactive Design: Basics	Т	1	PPT	L2	2	1,2,3	
	process – scenarios	Т	1	PPT	L2	2	1,2,3	
	navigation – screen design	T	1	PPT	L2	2		
12	navigation – screen design	1			LL	')	1,2,3	
	Itanatian and mustatree!	T						
13	Iteration and prototyping.	T	1	PPT	L2	2	1,2,3	
13 14	HCI in software process: Software life cycle	T		PPT PPT	L2 L2		1,2,3 1,2,3	
13 14			1	PPT	L2	2		
13 14 15	HCI in software process: Software life cycle	T	1 1	PPT PPT	L2 L2	2 2	1,2,3	
13 14 15 16	HCI in software process: Software life cycle Usability engineering	T T	1 1 1	PPT PPT PPT	L2 L2 L2	2 2 2	1,2,3 1,2,3	
13 14 15 16 17	HCI in software process: Software life cycle Usability engineering Prototyping in practice – design rationale.	T T T	1 1 1 1	PPT PPT PPT PPT	L2 L2 L2 L2	2 2 2 2	1,2,3 1,2,3 1,2,3	
13 14 15 16 17 18 Suggested	HCI in software process: Software life cycle Usability engineering Prototyping in practice – design rationale. Design rules: principles, standards, guidelines, rules. Evaluation Techniques – Universal Design Activity: Assignment / Case Studies / Tuorials/ Qu	T T T T	1 1 1 1 1	PPT PPT PPT PPT PPT PPT	L2 L2 L2 L2 L2 L2 L3	2 2 2 2 2 2	1,2,3 1,2,3 1,2,3 1,2,3	
13 14 15 16 17 18 Suggested	HCI in software process: Software life cycle Usability engineering Prototyping in practice – design rationale. Design rules: principles, standards, guidelines, rules. Evaluation Techniques – Universal Design	T T T T	1 1 1 1 1	PPT PPT PPT PPT PPT PPT	L2 L2 L2 L2 L2 L2 L3	2 2 2 2 2 2	1,2,3 1,2,3 1,2,3 1,2,3	
13 14 15 16 17 18 Suggested	HCI in software process: Software life cycle Usability engineering Prototyping in practice – design rationale. Design rules: principles, standards, guidelines, rules. Evaluation Techniques – Universal Design Activity: Assignment / Case Studies / Tuorials/ Quent method - Assignment	T T T T	1 1 1 1 1 1 1 1 1 1 / Model Deve	PPT PPT PPT PPT PPT PPT PPT	L2 L2 L2 L2 L2 L2 L3	2 2 2 2 2 2	1,2,3 1,2,3 1,2,3 1,2,3	
13 14 15 16 17 18 Suggested Evaluation	HCI in software process: Software life cycle Usability engineering Prototyping in practice – design rationale. Design rules: principles, standards, guidelines, rules. Evaluation Techniques – Universal Design Activity: Assignment / Case Studies / Tuorials/ Quent method - Assignment	T T T T T	1 1 1 1 1 1 1 1 1 1 / Model Deve	PPT	L2 L2 L2 L2 L2 L2 L3 d if any - Assignment	2 2 2 2 2 2	1,2,3 1,2,3 1,2,3 1,2,3 1,2,3	
13 14 15 16 17 18 Suggested Evaluation	HCI in software process: Software life cycle Usability engineering Prototyping in practice – design rationale. Design rules: principles, standards, guidelines, rules. Evaluation Techniques – Universal Design Activity: Assignment / Case Studies / Tuorials/ Quan method - Assignment UNIT 1 HCI Models Cognitive models	T T T T T iz / Mini Projects T T T T T T T T T T T	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PPT	L2	2 2 2 2 2 2 2 3 3	1,2,3 1,2,3 1,2,3 1,2,3 1,2,3 1,2,3	
13 14 15 16 17 18 Suggested Evaluation 19 20 21	HCI in software process: Software life cycle Usability engineering Prototyping in practice – design rationale. Design rules: principles, standards, guidelines, rules. Evaluation Techniques – Universal Design Activity: Assignment / Case Studies / Tuorials/ Quin method - Assignment UNIT 1 HCI Models Cognitive models Socio-Organizational issues and stakeholder	T T T T T iz / Mini Projects T T T T T T T T T T	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PPT	L2	2 2 2 2 2 2 2 3 3 3	1,2,3 1,2,3 1,2,3 1,2,3 1,2,3 1,2,3 1,2,3 1,2,3	
13 14 15 16 17 18 Suggested Evaluation 19 20 21 22	HCI in software process: Software life cycle Usability engineering Prototyping in practice – design rationale. Design rules: principles, standards, guidelines, rules. Evaluation Techniques – Universal Design Activity: Assignment / Case Studies / Tuorials/ Quon method - Assignment UNIT 1 HCI Models Cognitive models Socio-Organizational issues and stakeholder Communication and collaboration models	T T T T T T iz / Mini Projects T T T T T T T T T T T	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PPT	L2	2 2 2 2 2 2 2 3 3 3 3	1,2,3 1,2,3 1,2,3 1,2,3 1,2,3 1,2,3 1,2,3 1,2,3 1,2,3	
13 14 15 16 17 18 Suggested Evaluation 19 20 21 22 23	HCI in software process: Software life cycle Usability engineering Prototyping in practice – design rationale. Design rules: principles, standards, guidelines, rules. Evaluation Techniques – Universal Design Activity: Assignment / Case Studies / Tuorials/ Quin method - Assignment UNIT 1 HCI Models Cognitive models Socio-Organizational issues and stakeholder	T T T T T T T T T T T T T T T T T T T	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PPT	L2 L2 L2 L2 L3 d if any - Assignment L2 L2 L2 L3	2 2 2 2 2 2 2 3 3 3 3 3	1,2,3 1,2,3 1,2,3 1,2,3 1,2,3 1,2,3 1,2,3 1,2,3	

		ī	UNIT IV	- MOBI	LE HCI							
24	Mobile Ecosystem: Platforms, Application	frameworks	7	Γ	1	P	РТ]	L1 4		1,2,3,12	
25	Mobile Ecosystem: Platforms, Application	frameworks	7	Γ	1	P.	РТ]	L2	4	1,2,3	
26	Types of Mobile Applications: Widgets, Ap	oplications,	7	Γ	1	P.	PT]	L2	4	1,2,3	
27	Types of Mobile Applications: Widgets, Ap	oplications,	Т	Γ	1	P	РТ]	L2	4		
28	Games- Mobile Information Architecture		7	Γ	1	P	PT]	L2	4	1,2,3	
29	Mobile 2.0		7	Γ	1	P	PT]	L2	4	1,2,3	
30	Mobile Design: Elements of Mobile Design	1,	7	Γ	1	P.	PT]	L2	4	1,2,3	
31	Tools	7	Γ	1	P	PT]	L2	4	1,2,3		
32	Case Studies		7		1		PT		L3	4	1,2,3	
	d Activity: Assignment / Case Studies / Tu	iorials/ Qui	iz / Mini P	rojects / N	Iodel Deve	eloped/oth	ers Planne	d if any -				
Evaluatio	on method -MCQ	UNIT V	7 - WEB	INTERI	FACE DI	ESIGN						
33	Designing Web Interfaces		Т	Γ	1	P	РТ]	L2	5	1,2,3	
34	Drag & Drop		7	Γ	1	PPT		L2		5	1,2,3	
35	Direct Selection		7	Γ	1	P	PT]	L2	5	1,2,3,4	
36	Contextual Tools,		7	Γ	1	P.	PT]	L2	5	1,2,3	
37	Overlays		7	Γ	1	P	PT]	L2	5	1,2,3,4	
38	Inlays and Virtual Pages					P	PT]	L2	5	1,2,3	
39	Process Flow		7	<u> </u>	1	P	PT	1	L2			
40	Case Studies	7		1		PT		L3	5	1,2,3		
-	d Activity: Assignment / Case Studies / Tu	rorials/ Oni								5	1,2,3	
1 2												
			Т	ext Book	s							
1	Alan Dix, Janet Finlay, Gregory Abowd, Ru	issell Beale,	—Human	Computer	Interaction	l, 3rd Editi	on, Pearson	n Education	n, 2004 (U	NIT I, II &	III)	
	Brian Fling, —Mobile Design and Develop	mentl, First	Edition, O	Reilly Me	dia Inc., 20	09 (UNIT	– IV)					
2	Bill Scott and Theresa Neil, —Designing W											
				rence Bo								
			Webs	ite Refer	ence							
1	https://nptel.ac.in/											
			Blo	oms Lev	el							
	Level 1 (L1): Remembering	Lower	Fixed		Level 4	(L4) : Aı	nalysing			Higher	Projects	
	Level 2 (L2) : Understanding	Order	Hour							Order	Mini	
	Level 3 (L3): Applying		Exams		Level (6 (L6) : C		Thinking	Projects			
	Mapping syllabus w	ith Bloon	n's Taxo	nomy L	OT and I	НОТ						
Uni	it No Unit Name		L1	L2	L3	L4	L5	L6	LOT	НОТ	Total	
Uı	nit 1 FOUNDATIONS OF HCI	NS OF HCI		8	0	0	0	0	9	0	9	
Uı	nit 2		0	8	1	0	0	0	9	0	9	
U	DESIGN & SOFTWARE PR	OCESS	0		2	0	0	0	9	0	9	
	MODELS AND THEORIES		Ů	7	_							

Un	nit 4	4 MOBILE HCI					8	0	0	0	0	9	0	9
Unit 5 WEB INTERFACE DESIGN					0	9	0	0	0	0	9	0	9	
Total					2	40	3	0	0	0	45	0	45	
Total Percentage					4.44	88.89	6.67	0	0	0	100	0	100	
						CO	PO Mappi	ing						
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	1	0	0	0	0	0	0	0	0	0	3	2
CO2	3	2	1	0	0	0	0	0	0	0	0	0	3	2
CO3	3	2	1	0	0	0	0	0	0	0	0	0	3	2
CO4	3	2	1	0	0	0	0	0	0	0	0	1	3	2
CO5 Avg	3	2 2	1 1	0.2	0	0	0	0	0	0	0	0.2	3	2 2
CO1	-				Jund Computer	is a found		CI		lities are us	ing the log	ical and ma	thematics l	knowledg
CO3	Assess the	new dialog	gs through	user feedba	ck for furthe	er improvin	g the Intera	active tools						
CO4	Explaining the dialogs in between Human and Computer for multimedia/ ecommerce/ e-learning Web sites applictions as a part of logical and programing knowledge													
CO5	Developin	ng a meanir	ngful user i	nterface ne	eds the math	emtics, log	gical and pro	ogramming	g knowledg	e				
	3 High level 2		2	М	Moderate level			1 Low level			_			
lame &	Sign of Fa	aculty Inch	narge :		<u>-</u>									
ama le	Sign of St	ıbject Exp	ert :											

Head of the Department