

SWARNANDHRA

COLLEGE OF ENGINEERING & TECHNOLOGY (AUTONOMOUS)

(AUTONOMOUS)

Accredited by National Board of Accreditation, AICTE, New Delhi, Accredited by NACC with "A" Grade – 3.32 CGPA, Recognized under 2(f) & 12(B) of UGC Act 1956, Approved by AICTE, New Delhi, Permanent Affiliation to JNTUK, Kakinada Approved by AICTE, New Delhi, Permanent Affiliation to JNTUK, Kakinada Seetharampuram, W.G.DT., Narsapur-534280, (Andhra Pradesh)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE & MACHINE LEARNING

Cour	THE RESERVE THE PARTY OF THE PA	AND THE PARTY OF T	Semester	Branches	Contact Periods /Week	Academi Year	comm	Date of encement o emester
20AD7E04 HUMA COMPU INTERAC		TER	VII	AI&DS	5	2025-26	09	-06-2025
COURS	SE OUTCOMES		THE STATE OF THE S	TO SERVICE CHIEF	100			
	The state of the s					The Marie		
CO1.	Apply the Human	Computer	Interaction (I	ICI) principles wh	ile developing	software.[K3		
CO2.	Identify the approp	oriate desi	gn model for I	ICI.[K1]				
CO3.					C HCIIVA			
CO4.	Postulate appropria	ate interac	tion styles Des	sign a web interfac	e for HCI[K4]			
CO5.	Apply HCI in real	Postulate appropriate interaction styles Design a web interface for HCI[K4] Apply HCI in real time systems[K3] Text Book/					Contact	Delivery
UNIT	Outcomes /	Topics		Topics/Activity	THE RESERVOIR SHAPE SHAP	Reference	Hour	Method
CIVII	Bloom's Level	No.	NTRODUCT	ION AND DESIG	N PROCESS	S		
		1	NIRODUCI	ION AND DESIG				
		15376/456		Issian basins		T1	1	
		1.1	Interaction	design basics				
		1.2	process of	esign		T1	1	
					T1	1		
		1.3				Tl	1	
	CO1. Apply the	1.4	screen desi	gn and layout		******	- 200	Chalk
	Human Computer	1.5	Iteration an	d prototyping		T1	1	and Talk
I	Interaction (HCI)	1.6	HCI in the	Software process		T1	1	
	principles while	1.7	Software lit	fe cycle	1	T1	1	
	developing software.[K3]	V-00011	Usability er			T1	1	1
0	Solt war of [150]	1.8		sign and prototypir	19	T1	1	
		1.10	Design Foc			T1	1	
	=	1.11	Design ratio			T1	1	
						Tl	1	Chalk
		1.12	Design Rule	28			*	and Talk
	CBS	8	Re	eal-World Applicat	ions		1	PPT
						Total	13	-
				MODELS				
		2.1.	Cognitive mod	dels		TI		
11	ŀ		Goal and task			T1 T1	1	Chalk
••			Linguistic mo			T1	1	and Talk
				lisplay-based syste	ms	Tl		
					5	11	A	AV.
		2.5		evice models		T1	1	
	CO2. Identify the appropriate	2.6	Cognitive arch			T1 T1	1	

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		4	I - i dianal issues	T1	1	
	HCI	2.8	Organizational issues	TI	1	
		2.9	Capturing requirements Communication and Collaboration	TI	1	
		2.10	models	T1	1	
		2.11	Face-to-face communication		—	
		2.22	Conversation – Text-based communication – Group working	TI	1	
		2.22	Social Media Interaction Design		1	PP
_	CBS		Social Media Internet	TOTAL	13	
			INTERACTION STYLES			
	1	T 2.1	Dialog notations and design	TI	1	
		3.1	Dialog design notations	Tl	1	
ш		3.2	Diagrammatic notation	TI	1	Chalk of Talk
		3.3			1	
		3.4	Textual dialog notations	T1		
		3.5	Dialog semantics	T1	1	
	CO3. Understand	3.6	Dialog analysis and design	T2		
	the importance of interaction styles	3.7	Models of the system	T2	1	
		3.8	Standard formalisms	T2	1	
		3.9	Interaction models	T2	1	
		3.10	Continuous behavior and Modeling rich interaction	Tl	1	
		3.11	Status-event analysis - Rich contexts	TI	1	
	CBS		Emotion Recognition in Dialogs		1	PPT
	0.00		- N	TOTAL	12	
			WEB INTERFACE DESIGN - I			
		4.1	Designing Web Interfaces	TI	2	
	Internal III Grant In Control	4.2	Drag & Drop	TI	1	1
	CO4. Postulate	4.3	Module, List, Object,	Tl	2	
	appropriate interaction styles	4.4	Action & Collection	TI		Chalk & Talk
V	Design a web	4.5	Direct Selection	TI	1	
		4.6	Toggle & Collected	TI	2	
- 1	-	4.5 Toggle & Confected 4.7 Contextual Tools				
- 1	CDC	4.7	The state of the s	Tl	1	
	CBS -		Loading and Performance Optimization		1	PPT
				TOTAL	11	
			WEB INTERFACE DESIGN - II			
		5.1	Overlays – Dialog	TI	1	
,	CO5. Apply HCI	5.2	Detail, Input - Inlays	T2	1	Chalk &
/	in real time	5.3	Dialog, List	Tl	1	talk
	systems	5.4	Detail - Virtual Pages	TI	1	taik
		5.5	Virtual Scrolling	T1		



https://hcibook.com/e3/chapters/ch16

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		5.6	Inline Paging	T1	11	
		5.7	Scrolling Paging	TI	1	
	1	5.8	Virtual Panning	T2	1	
		5.9	Zoomable User Interface	T1	11	
	i	5.10	Process Flow	TI	1	PPT.
		5.11	Transitional Patterns	T1		Videos
		5.12	Purpose of Transitions	TI	L	
	CBS				1	PPT
		Kespons	ive Typography	TOTAL	13	
Text B	ooks:		CUMULATIVE PRO	POSED PERIODS	60	
S.No	AUTHORS, BO	OOK TITLE	EDITION, PUBLISHER, YEAR C	F PUBLICATION		
Tl	Rogers Interacti	on Decign: R	wond Human-Computer Interaction.	Sixth Edition Paperback	c – Import	, 1 June 202.
T2	Bill Scott and T	neresa Neil	Designing Web Interfacesl, First Edi	tion, O'Reilly, 2019.		
Refere	nce Books:					
						360
S.No.	AUTHORS, BO	OK TITLE	EDITION, PUBLISHER, YEAR O	F PUBLICATION		
S.No.	Julie A. Jacko (I	Ed). —The H	EDITION, PUBLISHER, YEAR C	d, 3rd edition, CRC Fit	ess, 2012.	
	Julie A. Jacko (I	Ed), —The H	man-Computer Interaction Handbook	evier, 2014		
	Julie A. Jacko (I	Ed), —The H	EDITION, PUBLISHER, YEAR Comman-Computer Interaction Handbook of Human-Computer Interactionl, Els. —Human-Computer Interaction: Des	evier, 2014		cationsI, CRG
R1 R2 R3	Julie A. Jacko (I M.G. Helander, Andrew Sears, J Press, 2009.	Ed), —The H	man-Computer Interaction Handbook	evier, 2014		cationsI, CRG
R1 R2 R3	Julie A. Jacko (I M.G. Helander, Andrew Sears, J Press, 2009.	Ed), —The He —Handbook ulie A. Jacko	iman-Computer Interaction Handbook of Human-Computer InteractionI, Els .—Human-Computer Interaction: Des in/noc19_cs86/preview	evier, 2014 sign Issues, Solutions, a		cationsI, CRO
R1 R2 R3	Julie A. Jacko (I M.G. Helander, Andrew Sears, J Press, 2009. etails https://onlinecou https://psu.pb.un	Ed), —The Ho —Handbook ulie A. Jacko urses.nptel.ac.	iman-Computer Interaction Handbook of Human-Computer Interaction, Els —Human-Computer Interaction: Des in/noc19_cs86/preview 0/chapter/5-1-introduction-to-design/	evier, 2014 sign Issues, Solutions, a		cationsI, CR
R1 R2	Julie A. Jacko (I M.G. Helander, Andrew Sears, J Press, 2009. etails https://onlinecou https://psu.pb.un	Ed), —The Ho —Handbook ulie A. Jacko urses.nptel.ac.	iman-Computer Interaction Handbook of Human-Computer InteractionI, Els .—Human-Computer Interaction: Des in/noc19_cs86/preview	evier, 2014 sign Issues, Solutions, a		cationsI, CR
R1 R2 R3	Julie A. Jacko (I M.G. Helander, Andrew Sears, J Press, 2009. etails https://onlinecou https://psu.pb.un	Ed), —The He —Handbook ulie A. Jacko arses.nptel.ac. aizin.org/ist11 atube.com/wa	iman-Computer Interaction Handbook of Human-Computer InteractionI, Els —Human-Computer Interaction: Des in/noc19_cs86/preview 0/chapter/5-1-introduction-to-design/ich?v=cWhL7YsAqbg	evier, 2014 sign Issues, Solutions, a		cationsI, CR

	7	Name	Signature with Date
i.	Faculty-I	B.Harita	Ba
ii.	Course Coordinator	Dr.G.Sudhakar	ler
iii.	Module Coordinator	Mr V. Subrahmanyam	V &
iv.	Program Coordinator	Dr.B.RamaKrishna	er-

Principal