1.	Course Title	Human-Computer Interaction				
2.	Course Code	CICT3513				
3.	Status	Faculty				
4.		3 (2+1)				
	Credit Hour	2 lecture (2 hours lecture x 14 weeks)				
		1 tutorials (1.5 hours per x 14 weeks)				
5.	Semester/Year	1/3				
6.	Prerequisites	CCPS1523 Object Oriented Programming				
7.	Teaching method:	Distance Learning (Electronic)				
8.	0	Assessment and Marking Percentage:				
		Participation 5%				
		Quizzes 15%				
	Evaluation	Project 15%				
		Mid Sem Exam 15%				
		Final Examination 50%				
9.	Lecturer					
10.	Objective of the Subject	To introduce students the concept of Human-Computer Intera	ction, interactio	n design		
		methodology, proper design of an interface, systematic method		-		
		and advanced issues in HCI.and high speed networks.				
11.		By the end of the subject, students should be able to:				
	Learning Outcomes	Understand the concept of Human-Computer Interaction				
		Understand the process of interaction design				
		Apply the Human-Computer Interaction concepts to	the current inte	raction		
		design.				
12.		The course highlights human-computer interaction strategies from a number of				
		perspectives including that of the engineer, cognitive psychologist, and end-user. Major				
	themes include user centered design and evaluation of usable interf					
	Synopsis computer systems with the cognitive capabilities of users, and					
		lso focus on th				
		interaction design methodology. Advanced HCI issues will also				
13.	Topics	Details	Lecture	Tutorial		
	•		(Hrs)	(Hrs)		
	144 I. d	Introduction to interaction design	2	4.5		
	Week 1	Introduction, good and poor design, interaction design, goals	2	1.5		
		of interaction design and usability principles.				
	Week 2	Understanding and conceptualising interaction	า	1 5		
	Week 2	Problem space, conceptual model, interface metaphors, interaction paradigms.	2	1.5		
<u> </u>		Understanding users and effects of interface to users.				
	Week 3	Cognition process, framework for cognition, mental model,	2	1.5		
	Week 3	information processing	2	1.5		
		Psychology aspects of the user, affective aspects, expressive				
	Week 4	interface, user frustration, virtual characters (agents).	2	1.5		
		Process of interaction design				
	Week 5	Interaction design activities and process, identify user needs				
		and requirements, prototyping based on user centered	2	1.5		
		approaches to interaction design (ethnography in design,				
	Week 6	Aternative design, lifecycle models for interactive design				
		and HCI, task description and analysis, interaction methods	2	1.5		
		(menu, command, voice, graphical etc)		_		
	_	participatory design), evaluation framework, paradigm and				
	Week 7	techniques	2	1.5		
		Testing and modeling users (user testing, experiments,	•			
	Week 8	predictive models).	2	1.5		
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	Week 9	Designing for collaboration and communication Social mechanism in communication and collaboration, CSCW (email, bulletin board, video conferences, virtual collaborative environment),	2	1.5		
	Week 10	Groupware (time/space matrix, shared applications, synchronous and asynchronous groupware), designing collaborative technologies.	2	1.5		
	Week 11	Advanced issues in HCI Multi-modal interaction, speech and gesture interaction, assistive technology,	2	1.5		
	Week 12	interaction in the virtual world, biometrics in HCI, ubiquitous computing and HCI	2	1.5		
	Week 13	intelligent user interface, information retrievals, hypertext and digital libraries (natural language	2	1.5		
	Week 14	Information retrieval algorithms, information interface, hypertext, digital libraries).	2	1.5		
		Total contact hours	28	21		
		Equivalent lecture hours	28	14		
		Total lecture hours 42				
		Credit hours	3			
14.	Main reference: Textbook:	Helen Sharp, Yvonne Rogers, and Jenny Preece, Interaction Design: Beyond Human-Computer Interaction (2007)				
15.	Additional References:	 Andrew Sears and Julie A. Jacko, The Human-Comp Handbook: Fundamentals, Evolving Technologies a Applications, Second Edition (Human Factors and Ben Schneiderman, Designing the User Interface: St Human-Computer Interaction, 4th Edition, Addisor Alan Dix, Janet Finlay, Gregory Abowd, and Russel E Interaction, 3rd Edition, Prentice Hall, 2004. Jenny Preece, Human-Computer Interaction, Addis John M. Carroll, Human-Computer Interaction in the Wesley, 2001 All materials will be available to the students online. 	chnologies and Emerging actors and Ergonomics) (2007) acterface: Strategies for Effective on, Addison Wesley, 2004. and Russel Beale, Human-Computer 44. action, Addison Wesley,1994. action in the new millennium, Addison			
	Other Materials:					