Course Title	Human Computer Interaction							
Course Code	CSE340							
Course Type	Compulsory							
Level	Bachelor (1 st cycle)							
Year / Semester	3 rd Year / 5 th Semester							
Teacher's Name	ТВА							
ECTS	6	Lectures / wee	ek	3 hours / 14 weeks	Laboratories / week	None		
Course Purpose and Objectives	The aim of this course is to provide the student with a basic knowledge of Human-Computer Interaction (HCI) and investigate specific issues involving HCI and user-interface design. Design methodologies for optimum Human Computer Interaction Systems and evaluation methods for HCI systems will be presented. Contemporary topics in HCI (i.ealternative human sensory channels for interacting with computers, GroupWare and customizable computer systems) will also be investigated.							
Learning Outcomes	 Upon succesful completion of this course students should be able to: Apply a variety of human computer interaction theoretical models. Design a user interface from specification to completion. Design a user manual for a substantial piece of software. Describe non-WIMP interaction styles and their theoretical bases. 							
Prerequisites	CSE200	(Co-re	quisites	None			
Course Content	Introduction: What is HCI, Significance of proper HCI in computer systems. Capabilities and limitations of humans and computers – Input Output channels, information storing and information processing, reasoning. Psychology and the design of interactive systems. Models of interaction, Ergonomics, Interaction Styles, Universal Usability Design of HCI systems:							
	 Paradigms for Interaction, Principles to support Usability, The design process, design rules, usability engineering, Iterative design and prototyping. Models of the User/System in Design: Cognitive models, goal and task hierarchies, Linguistic models, physical and device models. Standard Formalisms, Interaction models, Status - Event Analysis. 							
	Task Analysis: Task decomposition, knowledge based analysis, Relationship based techniques.							

Teaching	Implementation Support: Elements of windowing systems, user interface management systems. Evaluation of an interaction system: Goals of evaluation, evaluation styles, evaluating the design/implementation. Choosing an evaluation method. Help and Documentation: Requirements of User support. Approaches to user support, Intelligent help systems. Contemporary topics in HCI: Groupware: Introduction, Meeting and Decision support systems, Shared applications, Frameworks for Groupware. Computer-mediated communication.					
Methodology						
Bibliography	Preece, J., Sharp, H. and Rogers, Y. (2015) Interaction Design, Wiley Shneiderman, B., Plaisant, C., Cohen, M., Jacobs, S., Elmqvist, N. and Diakopoulos, N. (2016) Designing the User Interface: Strategies for Effective Human-Computer Interaction, Pearson.					
Assessment	·	·				
	Examina	tions	70%			
	Assignm	ents	20%			
	Class Pa	articipation and attendance	10%			
Language	English					