CYPRUS INTERNATIONAL UNIVERSITY



Computer Engineering - English - Undergraduate Course Syllabus 2024-25 Spring

Code(s)	Course Name	Туре	Weekly Course Hours			Credits	ECTS	
			T	A	L	Creates	ECIS	
CMPE313 ISYE313	OBJECT ORIENTED PROGRAMMING	Course	3	0	2	4	7	
Prerequisite	Prerequisite			Language of English				
Course Lecturer	Course Lecturer / Extension		Assoc. Prof. Dr. Yöney KIRSAL EVER / 2463					
E-mail	E-mail		yever@ciu.edu.tr Office Hours -					
Teaching Assista	Teaching Assistant(s)		Res. Asst. Ashkan MOHEBALI					
Textbooks and/or	Textbooks and/or References							
Book / Reference 1	Java for Students, 5th Edition, Pearson, 2010							
Book / Reference 2	Java How To Program, 9th Edition, Deitel P & Deitel, 2011							
Book / Reference 3	Head First Java, 2nd Edition, O'Reilly Media, 2005							
Week(s)	Topics		Learning Outcomes			Solo Taxonomy Weight		
Week 1	Introduction to the course/Ice breaking.		Design and develop non-trivial programs using appropriate object oriented design and development methods			-		
Week 2	What is object oriented programming? The diff between Object Oriente Programming (OOP) ar programming?	Use UML Class diagrams efficiently for object oriented software design			-			
Week 3	Java Basics, Swing Library,		Apply principles of object oriented programming for flexibility, re-use and maintenance purposes			-		
Week 4	Variables and I/O, Dialog Boxes, Structured Programming Components: Sequence (Functions), Selection (Decision Making) and Iteration (Loops)		Practice layered architecture model and develop gradually expanding object oriented programs			-		
Week 5	Unified Modelling Language (UML):						-	
Week 6	Class definitions, static keywords and class relations.Objects and Classes						-	
Week 7	Class definitions, static and class relations.Obj Classes					-		
Week 8	Midterm Exam							
Week 9	Midterm Exam					-		
Week 10	Inheritance and Multip and Abstract classes					-		
Week 11	Interfaces and Polymor					-		
Week 12	GUI Programming: JFr Labels, Buttons, TextBo Checkboxes, RadioButt ComboBoxes					-		

Week 13	GUI Programming: JMenu, JMenuItems, JMenuBar, Picture Boxes, Customizing Components			-	
Week 14	Multiple Forms			-	
Week 15	Revision and Exercises			-	
	-		Solo Taxonomy Average	0.00	
Evaluation Too	ls				
Evaluation Tool		Weight in Total(%)			
Midterm - Midterm		30			
Final - Final		40			
Quiz - Lab Quiz		15			
Quiz - Quiz 1		5			
Quiz - Quiz 2			10		
	at students attend to their classes. Absenteeism of inimum of 70% of class hours in their courses.	students shall h	be monitored by the relevant teaching staff. It is	imperative that	

#	Learning Outcomes		
LO1	Design and develop non-trivial programs using appropriate object oriented design and development methods		
LO2	Use UML Class diagrams efficiently for object oriented software design		
LO3	Apply principles of object oriented programming for flexibility, re-use and maintenance purposes		
LO4	Practice layered architecture model and develop gradually expanding object oriented programs		

#	Program Outcomes			
PO1	Adequate knowledge in mathematics, science and engineering subjects pertaining to the relevant discipline; ability to use theoretical and applied knowledge in these areas in complex engineering problems.			
PO2	Ability to identify, formulate, and solve complex engineering problems; ability to select and apply proper analysis and modelling methods for this purpose.			
PO3	Ability to design a complex system, process, device or product under realistic constraints and conditions, in such a way as to meet the desired result; ability to apply modern design methods for this purpose.			
PO4	Ability to devise, select, and use modern techniques and tools needed for analysing and solving complex problems encountered in engineering practice; ability to employ information technologies effectively			
PO5	Ability to design and conduct experiments, gather data, analyse and interpret results for investigating complex engineering problems or discipline specific research questions			
PO6	Ability to work efficiently in intra-disciplinary and multi-disciplinary teams; ability to work individually.			
PO7	Ability to communicate effectively in Turkish, both orally and in writing; knowledge of a minimum of one foreign language; ability to write effective reports and comprehend written reports, prepare design and production reports, make effective presentations, and give and receive clear and intelligible instructions.			
PO8	Recognition of the need for lifelong learning; ability to access information, to follow developments in science and technology, and to continue to educate him/herself			
PO9	Consciousness to behave according to ethical principles and professional and ethical responsibility; knowledge on standards used in engineering practice.			
PO10	Knowledge about business life practices such as project management, risk management, and change management; awareness in entrepreneurship, innovation; knowledge about sustainable development.			
PO11	Knowledge about the global and social effects of engineering practices on health, environment, and safety, and contemporary issues of the century reflected into the field of engineering; awareness of the legal consequences of engineering solutions.			