Course title			Code	semester	T+U	credit	ECTS				
Object Oriented Programming 1				3	3+2	4	6				
Prerequisite	Courses	None			Į.	 					
Language of		English									
Course Level		Undergraduate									
	Type of Course		Compulsory								
	Course Coordinator										
Instructors											
Course Assis											
The aim of le	esson	This course teaches how to abstract class objects with their properties and behaviors. By understanding how to program real world objects, students apply the concepts of									
		By understanding how to program real-world objects, students apply the concepts of wrapping, inheritance, and polymorphism, the three important components of									
			object-oriented programming, using UML and C++.								
Course Cont	tent	Introduction of data types, expressions and commands, function and scope rules,									
		class definition, inheritance, polymorphism, name loading, templates, exception									
G .	•	handling, input/output, object-oriented concepts using UML and C++ language.									
Course Lear Outcomes	ning	Students who successfully complete this course;									
Outcomes		 Explaining a programming method that models the real world using UML Applying the concepts of wrapping, inheritance, and polymorphism 									
		3. Using function and operator loading									
		4. Using exception handling									
	1	5. Implementing function and class templates									
Weeks	Topics										
one	Introduction	Introduction to Object Oriented programming									
2	Object Orient	Object Oriented Approach and UML									
3	Switching fro	witching from C to C++									
4	Classes and d	Classes and data abstraction									
5	Classes and data abstraction										
6	Operator installation										
7	Heritage										
8	Heritage										
9	Virtual functions and polymorphism										
10	Virtual functions and polymorphism										
11th	Input/Output										
12	Templates										
13	Exception handling										
14	File processing										
15	review										
	General Competencies										
Able to develop projects by using object-oriented methodology in programming											
resources											
W. Savitch	W. Savitch, "Problem Solving with C++", Addison-Wesley Publishing, 6th Edition.										
	_ 10014III 001VI		Evaluation	• •	, 501 20111011						
	•	f the Midterm Ex	kam, Quiz, Fir	nal Exam and	Evaluations	will be annou	nced later,				
according to	the decision of	the Faculty Adm	inistrative Bo	ard.							

	WITH PROGRAM LEARNING OUTCOMES COURSE LEARNING OUTCOMES RELATIONSHIP TABLE											
	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11											
LO1	5	5	5	5	4	4	4	5	5	4	4	
	_	_						-	_			
INCR	5	4	4	4	4	3	3	3	5	4	5	
EASE												
2												
INCR	5	5	5	4	5	3	3	3	3	3	3	
EASE												
3												
INCR	5	4	4	3	5	4	3	3	3	3	3	
EASE												
4												
LO5	5	4	4	4	5	3	3	3	3	3	3	
LO: Learning Outcomes OP: Program Outcomes												
Contri bution Level	1 Very Low		2 Low		3 Media	3 Medium		4 High		5 Very High		

Relation of Program Outcomes and Related Course

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Object Oriented Programming 1	5	4	4	4	5	3	4	4	3	4	3