

**ANKARA YILDIRIM BEYAZIT UNIVERSITY – DEPARTMENT OF MANAGEMENT INFORMATION SYSTEMS
COURSE SYLLABUS**

Course Code	Course Title	Course Type	ECTS Credits	Prerequisite Information	Date of Preparation
MIS215	COMPUTER PROGRAMMING II	Compulsory	5	None	20.10.2025
Instructor of the Course & E-Mail Address	Prof.Dr. İhsan Tolga Medeni ihasantolgamedeni@aybu.edu.tr				
Office Hours & Office Room	Office hours can be learned from the schedule posted on the instructor’s office door.				
Course Content and Objectives	This course is designed as the second course in computer programming. It aims to develop object-oriented programming skills. The topics in this course will be presented using the JAVA programming language.				
Textbook(s)	“Java How to Program ”, P. Deitel and H. Deitel, 9th edition				
Teaching Methods and Techniques	Face to face				
Course Learning Outcomes	1	Understands and applies the principles of structured and object-oriented programming.			
	2	Uses control structures, functions, and arrays effectively to develop software solutions.			
	3	Implements advanced programming concepts such as pointers, file handling, and recursion.			
	4	Designs modular and maintainable programs using appropriate coding standards.			
	5	Tests, debugs, and documents programs systematically to ensure functionality and reliability.			
	6	Develops problem-solving and algorithmic thinking skills for real-world applications.			
	7	Demonstrates teamwork and project management skills through programming assignments.			
Program Outcomes Contributed by the Course	Program Outcomes (PO)				
		Applies programming knowledge to solve business and management-related problems.			
		Demonstrates the ability to design, implement, and evaluate information systems solutions.			
		Uses modern software tools and technologies effectively in the field of Management Information Systems.			
		Integrates analytical thinking and programming skills to support organizational decision-making.			
		Acts ethically and responsibly in software development and data processing.			
Contribution of the Course to Field Instruction	This course enhances students’ ability to apply programming techniques to real-world business and management information systems problems. It contributes to the field by developing both technical and analytical competencies necessary for creating, maintaining, and optimizing software-based solutions. Through practical coding exercises and projects, students learn to transform business needs into executable programs, thereby bridging the gap between technical design and managerial applications. The course also reinforces teamwork, systematic thinking, and ethical responsibility in programming practices.				

Topics Covered in the Course	1. Week	Review of Programming Fundamentals and Structured Programming
	2. Week	Introduction to Object-Oriented Programming (OOP) Concepts
	3. Week	Classes, Objects, and Methods
	4. Week	Encapsulation and Data Abstraction
	5. Week	Constructors and Destructors
	6. Week	Arrays and Strings in OOP
	7. Week	Inheritance and Polymorphism
	8. Week	Midterm Week
	9. Week	File Handling and Input/Output Operations
	10. Week	Exception Handling
	11. Week	Pointers and Dynamic Memory Allocation
	12. Week	Recursion and Algorithm Efficiency
	13. Week	Working with Libraries and Modular Programming
	14. Week	Project Development and Presentation
	15. Week	Course Review and Final Assessment

Course Evaluation Criteria	In-Term Studies	Quantity	Percentage %
	Mid-terms	1	%50
	Quizzes		%
	Assignments		%
	Attendance		%
	Practice		%
	Project		%
	Final examination	1	%50
	Total	2	100%

Disability Policy	<p>If you have a documented disability (e.g., visual, hearing, or physical impairment, etc.) that may influence your performance in this course, it is recommended to meet with the Engelsiz AYBU (https://aybu.edu.tr/engelsiz/content_list-327-yildirim-beyazit-universitesi-engelsiz-universite-birimi-yonergesi.html) to arrange for reasonable conditions (such as accommodation, etc.) to ensure an equitable opportunity to meet all the requirements of this course. You may also contact the local authority of the Faculty of Humanities and Social Sciences. You should communicate your needs to the course instructor as soon as possible to ensure that any course needs concerning exams, lecture materials, etc. are met.</p>
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