

**School of Education / Special Education Teaching**

**2022 - 2023 Academic Year**

**INFORMATION TECHNOLOGIES**

**Syllabus**

<b>Course Description</b>						
<b>Name</b>	<b>Code</b>	<b>Semester</b>	<b>T+A Hour</b>	<b>Credit</b>	<b>ECTS</b>	
INFORMATION TECHNOLOGIES		ÖE1182880	Fall Semester	3+0	3	5
<b>Prerequisites Courses</b>						
<b>Recommended Elective Courses</b>						
<b>Language of Instruction</b>	Turkish					
<b>Course Level</b>	First Cycle (Bachelor's Degree)					
<b>Course Type</b>	Required					
<b>Course Coordinator</b>	Lect. Serpil AYDIN					
<b>Name of Lecturer(s)</b>	Lect. Serpil AYDIN					
<b>Assistant(s)</b>						
<b>Aim</b>	Information technologies and computational thinking; problem solving concepts and approaches; algorithms and flowcharts; computer systems; basic concepts related to software and hardware; basics of operating systems, current operating systems; file management; utilities (third-party software); word processing programs; calculation/table/chart programs; presentation programs; desktop publishing; database management systems; web design; internet use in education; communication and cooperation technologies; safe internet use; informatics ethics and copyrights; to understand the effects of computers and the internet on children/young people.					
<b>Course Content</b>	This course contains; Information technologies and computational thinking; Basic concepts,Information technologies and computational thinking; Basic concepts,Problem solving concepts and approaches; algorithm and flowcharts; computer systems;,Problem solving concepts and approaches; algorithm and flowcharts; computer systems;,Basic concepts of software and hardware;,Basic concepts of software and hardware;,Fundamentals of operating systems, current operating systems,Fundamentals of operating systems, current operating systems,File management; utilities (third party software);,File management; utilities (third party software);,Word processing programs; calculation/table/graphic programs; presentation programs; desktop publishing; database,Word processing programs; calculation/table/graphic programs; presentation programs; desktop publishing; database,Web designing; internet use in education; communication and collaboration technologies; safe internet use; IT ethics and copyrights; The effects of computers and internet on children/youth.,Web designing; internet use in education; communication and collaboration technologies; safe internet use; IT ethics and copyrights; The effects of computers and internet on children/youth..					
<b>Course Learning Outcomes</b>			<b>Teaching Methods</b>	<b>Assessment Methods</b>		
Web design; internet use in education;			1, 15, 2	E		
Word processing programs; calculation/table/chart programs; presentation programs; desktop publishing; be able to implement and recognize database management systems			10, 2, 6	A		
File management; be able to recognize utilities (third-party software);			1, 10, 6	A		
Basics of operating systems, understanding current operating systems			10, 14, 6	A, D		
Understand the basic concepts of software and hardware			10, 14, 6, 9	A		
Problem solving concepts and approaches; algorithms and flowcharts; understand computer systems			1, 10, 16, 4, 6	A		
Information technologies and computational thinking;			10, 15, 16, 19			
communication and cooperation technologies; safe internet use; informatics ethics and copyrights; to understand the effects of computers and the internet on children/young people,			1, 10, 19, 21, 22, 6	A		
<b>Teaching Methods</b>	1: Lecture, 10: Brainstorming, 14: Self-Study, 15: Problem solving, 16: Project Based Learning, 19: Concept map, 2: Question - Answer, 21: -, 22: -, 4: Exercise, Practice, 6: Role Model, Making an example, 9: Simulation					
<b>Assessment Methods</b>	A: Written Exam, D: Project / Design, E: Quiz					
<b>Lecture Schedule</b>						
<b>Sequence</b>	<b>Topics</b>	<b>Preliminary Preparation</b>				
1	Information technologies and computational thinking; Basic concepts	References -1. Unit Basic Concepts				
2	Information technologies and computational thinking; Basic concepts	References -1. Unit Basic Concepts				
3	Problem solving concepts and approaches; algorithm and flowcharts; computer systems;	Lesson Practice and unit continuation				
4	Problem solving concepts and approaches; algorithm and flowcharts; computer systems;	Lesson Practice and unit continuation				
5	Basic concepts of software and hardware;	Lesson Practice and unit continuation				
6	Basic concepts of software and hardware;	Lesson Practice and unit continuation				
7	Fundamentals of operating systems, current operating systems	Lesson Practice and unit continuation				
8	Fundamentals of operating systems, current operating systems	Lesson Practice and unit continuation				
9	File management; utilities (third party software);	Lesson Practice and unit continuation				
10	File management; utilities (third party software);	Lesson Practice and unit continuation				
11	Word processing programs; calculation/table/graphic programs; presentation programs; desktop publishing; database	Lesson Practice and unit continuation				
12	Word processing programs; calculation/table/graphic programs; presentation programs; desktop publishing; database	Lesson Practice and unit continuation				
13	Web designing; internet use in education; communication and collaboration technologies; safe internet use; IT ethics and copyrights; The effects of computers and internet on children/youth.	Lesson Practice and unit continuation				
14	Web designing; internet use in education; communication and collaboration technologies; safe internet use; IT ethics and copyrights; The effects of computers and internet on children/youth.	Lesson Practice and unit continuation				
<b>Evaluation Methods</b>			<b>Weight(%)</b>			
Midterm Exam			40			
General Exam			60			

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**Resources**

<https://www.anadolu.edu.tr/uploads/anadolu/ckfinder/web/files/BIL101U.pdf>  
<https://www.pegem.net/dosyalar/dokuman/1852017131004bili.pdf>