Course Syllabus

Code - Course Title	**BOP109 - Fundamentals of Information Technology**
Course Type	I. SEMESTER
Laboratory + Practice	2+2
ECTS	**4.0**
Language of Instruction	Türkçe
Course Type	Required Courses
Course Instructor(s)	ÖĞR. GÖR. DR. EMRAH ÜNLÜER

Mode of Delivery	face to face
Place of Delivery	On Campus
Used Educational Platforms	Face-to-face
Prerequisites	There is no prerequisite or co-requisite for this course.
Courses Recomended	none/A
Work Placement	none
Aims of the Course	The objective is to convey the historical evolution of computers, hardware architecture, and the logic of operating systems to hearing-impaired students through visual and concretized teaching methods; to enable students to perform basic desktop and advanced file/directory management, to use network and internet resources securely, to distinguish the functions of basic application software, and to ensure they acquire digital literacy and system management competencies to independently carry out computer maintenance, performance optimization, cybersecurity, and system repair processes.

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1	**LO-1**	Introduction to Information Technologies and Basic Concepts	Lecture, Question & Answer, Discussion
Week - 2	**LO-1**	History and Developmental Stages of the Computer	Lecture, Question & Answer, Discussion
Week - 3	**LO-2**	Computer Hardware	Lecture, Question & Answer, Demonstration
Week - 4	**LO-2**	Computer Hardware	Lecture, Question & Answer, Discussion
Week - 5	**LO-1**	Computer Types, Classification, and Areas of Use	Lecture, Question & Answer, Discussion
Week - 6	**LO-3**	Computer Software and Operating System Logic	Lecture, Question & Answer, Discussion

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Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 7	LO-3 LO-4	Windows Operating System and Desktop Management	Lecture, Question & Answer, Discussion, Demonstration and Practice
Week - 8	LO-3 LO-4	Windows File and Directory (Folder) Management	Lecture, Question & Answer, Discussion, Demonstration and Practice
Week - 9	LO-5	Application Software	Lecture, Question & Answer, Demonstration and Practice
Week - 10	LO-6	Network Technologies and File Sharing over Networks	Lecture, Demonstration and Practice
Week - 11	LO-7	Computer Maintenance and Performance Optimization	Lecture, Question & Answer, Demonstration and Practice
Week - 12	LO-7	Computer Maintenance and Performance Optimization	Lecture, Discussion, Demonstration and Practice
Week - 13	LO-8	Malware and Security	Lecture, Brain Storming, Demonstration and Practice
Week - 14	LO-8	Backup and Remote Assistance	Lecture, Discussion, Brain Storming, Demonstration and Practice

Learning Outcomes

#	Learning Outcome
1	Explains the historical development of the computer
2	Explains the connection and operational principles of the internal and external hardware components of the computer.
3	Defines the fundamental functions of operating systems.
4	Performs advanced file and directory operations.
5	Distinguishes the purpose of basic-level application software.
6	Explains the types and usage of network and internet technologies.
7	Applies the necessary steps for computer maintenance.
8	Explains the measures that should be taken against malware.

Sustainable Development Goals

✓ Quality Education ✓ Decent Work and Economic Growth ✓ Industry, Innovation and Infrastructure ✓ Reducing Inequalities

Course Theme

✓ Educational Sciences and Educational Technologies ✓ Communication Technologies and the IoT ✓ Cyber Security and Cryptography ✓ Sustainability and Green Energy ✓ Data Science ✓ Software, Cloud and Blockchain

AKTS Workload

Activity	Duration (Hour)	Count	Workload
Teorik Derse Katılım	2.00	14	28
Sınıf Dışı Çalışma (Ön Hazırlık & Pekiştirme Amaçlı)	1.00	14	14
Ödevler	1.50	8	8
Proje - Rapor - Sunum Hazırlama	0.00	0	0
Ara Sınav Hazırlığı (sınav süresi dahil)	8.00	1	8
Final Sınavı Hazırlığı (sınav süresi dahil)	12.00	1	12
Uygulama (Laboratuvar, Müzik/Enstrüman Uygulaması, Atölye/Saha Çalışması vb.)	2.00	14	28
Staj Uygulaması	0.00	0	0
		Calculated ECTS	**4.0**

Assessment Method and Passing Requirements

✓ Multiple Choice Test ✓ True-False Test ✓ Homework