Course Syllabus

Code - Course Title	**BİL207U -**
Course Type	I. SEMESTER
Laboratory + Practice	0+0
ECTS	**5.0**
Language of Instruction	Türkçe
Course Type	Required Courses
Course Instructor(s)	LECTURER DR. İBRAHİM ERDİNÇ ERGÜN

Mode of Delivery	Distance Education
Prerequisites	There is no prerequisite or co-requisite for this course.
Courses Recomended	There is no recommended optional programme component for this course.
Work Placement	Not Applicable

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Introduction to Data Structures: Data Structures, Algorithm, Flowchart and Analysis, Big O Notation	
Week - 2		Array, Dictionaries	
Week - 3		Sets, Lists	
Week - 4		Stack Structure	
Week - 5		Queue Structure	
Week - 6		Sorting Algorithms: What is a Sorting Algorithm? Basic Sorting Algorithms	
Week - 7		Midterm	
Week - 8		Search Algorithms, Sequential/Sequential Search	
Week - 9		Interval Search	
Week - 10		Linked Lists, Different Designs in Linked Lists	
Week - 11		Binary Trees and Binary Search Trees: Tree Structures, Binary Trees, Binary Search Trees	
Week - 12		Graph Data Model	
Week - 13		Graph Algorithms	

Sustainable Development Goals

No content has been provided.

Course Theme

No content has been provided.

AKTS Workload

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

Assessment Method and Passing Requirements

No content has been provided.

Assessment Method and Passing Requirements	Quamtity	Percentage (%)
1.Midterm Exam	1	30
Final Exam	1	70
	Sum (%)	**100**