Course Syllabus

Code - Course Title	**YBS204U -**
Course Type	IV. SEMESTER
Laboratory + Practice	0+0
ECTS	**7.0**
Language of Instruction	Türkçe
Course Type	Required Courses
Course Instructor(s)	HÜSEYİN KAYHAN

Mode of Delivery	Distance Education
Prerequisites	There is no prerequisite or co-requisite for this course.
Recommended Resources	Algorithms and Programming, Anadolu University Publications.

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Algorithm Concept and Programming Basics	
Week - 2		Arrays, Linked Lists, Queues and Stacks	
Week - 3		Arrays, Linked Lists, Queues and Stacks	
Week - 4		Trees, Heaps and Hash Tables	
Week - 5		Trees, Heaps and Hash Tables	
Week - 6		Algorithm Design	
Week - 7		Algorithm Design	
Week - 8		Algorithm Analysis	
Week - 9		Algorithm Analysis	
Week - 10		Search Algorithms	
Week - 11		Search Algorithms	
Week - 12		Sorting Algorithms	
Week - 13		Sorting Algorithms	
Week - 14		Graph Algorithms	

Learning Outcomes

#	Learning Outcome
1	Defines the concepts of algorithm and data structure.
2	Applies various types of data structures.
3	Designs algorithms.
4	Analyses 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**