Course Syllabus

Code - Course Title	**BTÖ116 - Algorithm Design and Development**
Course Type	II. SEMESTER
Laboratory + Practice	2+2
ECTS	**6.0**
Language of Instruction	Türkçe
Course Type	Required Courses

Mode of Delivery	Face to face
Prerequisites	There is no prerequisite or co-requisite for this course.
Courses Recomended	There is no recommended optional programme component for this course
Recommended Resources	Recommended reading: Algoritma Geliştirme Ve Programlamaya Giriş, Seçkin; Algoritma ve Programlama Mantığı, Kodlab Yayınları

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Basic concepts	
Week - 2		Algorithms	
Week - 3		Algorithm designing	
Week - 4		Flow charts	
Week - 5		Input / output concepts	
Week - 6		Basic data types	
Week - 7		Constants and variables	
Week - 8		Operators and process priorities	
Week - 9		Decision structures	
Week - 10		Loops	
Week - 11		Use of function	
Week - 12		The different algorithms	
Week - 13		Sample Applications	
Week - 14		Blocks and text-based programming environments	

Learning Outcomes

#	Learning Outcome
1	Solve algorithm problems.
2	Explain algorithm design techniques.
3	Describe flow diagrams and working methods.
4	Solve the visualization of algorithms and flow charts.
5	Develop the applicability of different algorithms for problem solving.
6	Develops search and sorting algorithms.
7	Develop sample applications for problem solving and algorithm design.
8	Develop block and text based programming environments.

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.