

Content

Course Code	Course Name	Semester	Theory	Practice	Lab	Credit	ECTS
IT 520	Cybernetics and Block Chain	1	4	0	0	3	8

Prerequisites	
Admission Requirements	

Language of Instruction	English
Course Type	Compulsory
Course Level	Masters Degree
Objective	Cybernetics and blockchain computing are the content of this course.
Content	<p>Week 1 Introduction to the Cyber World</p> <p>Week 2 What is Cryptology?</p> <p>Week 3 Hash Functions</p> <p>Week 4 Cryptography with Open Keying I</p> <p>Week 5 Cryptography with Open Keying II</p> <p>Week 6 Midterm Exam</p> <p>Week 7 Distributed Application Architecture and P2P Networks</p> <p>Week 8 The Concept of Cryptocurrency</p> <p>Week 9 Data Storage and Distribution</p> <p>Week 10 Blockchain Development Platforms and APIs</p> <p>Week 11 Blockchain Ecosystem</p>
References	<ol style="list-style-type: none">1. An Introduction to Mathematical Cryptography, Jeffrey Hoffstein, Jill Pipher, Joseph H. Silverman, Springer, 2014.2. Bitcoin, E. Emre Aksoy, Abaküs, 2018.3. Blokzincir - Kripto Paralar - Bitcoin, Satoshi Dünyayı Değiştiriyor, Vedat Güven , Erkin Şahinöz, KRONİK KİTAP, 2018.

Theory Topics

Week	Weekly Contents