## Content

Course Code	Course Name	Semester	Theory	Practice	Lab	Credit	ECTS
IT 520	Cybernetics and Block Chain	2	4	0	0	3	8

Prerequisites	
Admission Requirements	

Language of Instruction	English
Course Type	Elective
Course Level	Masters Degree
Objective	Cybernetics and blockchain computing are the content of this course.
Content	Week 1 Introduction to the Cyber World Week 2 What is Cryptology? Week 3 Hash Functions Week 4 Cryptography with Open Keying I Week 5 Cryptography with Open Keying II Week 6 Midterm Exam Week 7 Distributed Application Architecture and P2P Networks Week 8 The Concept of Cryptocurrency Week 9 Data Storage and Distribution Week 10 Blockchain Development Platforms and APIs Week 11 Blockchain Ecosystem
References	<ol> <li>An Introduction to Mathematical Cryptography, Jeffrey Hoffstein, Jill Pipher, Joseph H. Silverman, Springer, 2014.</li> <li>Bitcoin, E. Emre Aksoy, Abaküs, 2018.</li> <li>Blokzincir - Kripto Paralar - Bitcoin, Satoshi Dünyayı Değiştiriyor, Vedat Güven , Erkin Şahinöz, KRONİK KİTAP, 2018.</li> </ol>

## **Theory Topics**

Week	Weekly Contents	
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