

Content

Course Code	Course Name	Semester	Theory	Practice	Lab	Credit	ECTS
EC 563	Blockchain and Virtual Currencies	1	3	0	0	3	6

Prerequisites	
Admission Requirements	

Language of Instruction	Turkish
Course Type	Elective
Course Level	Masters Degree
Objective	In this course we'll address the important questions about Bitcoin. How does Bitcoin work? What makes it different? How secure are your bitcoins? How anonymous are Bitcoin users? What applications can we build using Bitcoin as a platform? Can cryptocurrencies be regulated? If we were designing a new cryptocurrency today, what would we change? What might the future hold?
Content	Underlying technologies of cryptocurrencies
References	https://bitcoinbook.cs.princeton.edu

Theory Topics

Week	Weekly Contents
1	Introduction to cryptocurrencies
2	Decentralization
3	Mechanism of bitcoin
4	Storage and usage
5	Mining
6	Anonymity
7	Alternative mining puzzles
8	MT exam
9	Altcoins as Platforms
10	Altcoins
11	The future of bitcoin
12	DAOs
13	History of digital currencies
14	Applications