2SE442 - Blockchain and business innovations for digital economy

Professor

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Aims of the course:

The course concerns with blockchain (DLTs) and other emerging technologies in business and finance that shape the digital economy. It is practically oriented and includes lectures of successful entrepreneurs who broke through using hi-tech innovations.

Learning outcomes and competences:

Upon successful completion of this course, students will be able to:

- understand various DLTs and identify its advantages and disadvantages
- use cryptocurrencies, including advanced functionalities
- perform fundamental, technical and sentimental analysis of the coins
- understand the potential and limits of disruptive innovations and new business models, find use cases for those and communicate their benefits with companies and users
- navigate through emerging regulations on digital technologies
- comprehend scientific papers on abovementioned topics and make their own research

Course content

- 1. Blockchain and business innovations for digital economy, Introduction to cryptocurrencies
- 2. Alternative usecases of blockchain not only "sound money"
- 3. DeFi loans, financial derivatives, micropayments, regulation
- 4. Decentralized autonomous organizations,
- 5. Open banking and PSD2 regulation, changing business models of banks
- 6. Trust and its misuse, privacy and manipulation with the masses
- 7. Fintech Development in financial services

Grading scale:

100 - 90	Α	Excellent	
89 - 75	В	Very Good	
74 - 60	С	Good	
59 and less	F	Failure	

Recommended literature:

ISBN	Title	Author	Year
978-1-449-37404-4	Mastering bitcoin	ANTONOPOULOS,	2014
		A M.	
978-1-491-92049-7	Blockchain	SWAN, M.	2015
978-1-119-01916-9	Understanding bitcoin:	FRANCO, P.	
	cryptography, engineering,		2015
	and economics		