УНИВЕРСИТЕТ ЗА НАЦИОНАЛНО И СВЕТОВНО СТОПАНСТВО

UNIVERSITY OF NATIONAL AND WORLD ECONOMY

Adopted with Faculty Council decision
of Faculty of *General economics*
Protocol № ….. / ……

Approved by:
Dean of Faculty:
Prof. Georgi Petrunov, PhD

SYLLABUS

Course		**BANK SYSTEMS AND CRYPTOCURRENCIES**	
Course Category		**OPTIONAL**	
Area of Study		**3. SOCIAL SCIENCES, ECONOMICS AND LAW**	
Field of Study		**3.8. ECONOMICS**	
Degree Programme		**ECONOMICS TAUGHT IN ENGLISH**	
Educational and Qualification Degree		**BACHELOR**	
Faculty		**GENERAL ECONOMICS**	
Department		**ECONOMICS**	
Academic Hours/classes		**Full Time**	**60**
		Distance Learning	**-**
Extracurricular activities		**Full Time**	**90**
		Distance Learning	**-**
Credits		**6**	
Lecturer		**Associate prof. Kamelia Assenova, PhD**	

COURSE DESCRIPTION

1. The course "Banking Systems and Cryptocurrencies" will be taught to students in the Bachelor's degree program in „ECONOMICS TAUGHT IN ENGLISH" since the academic year 2022/2023.
2. Content description: The academic program "Banking Systems and Cryptocurrencies" is the next stage of studding, with main aims the students gain knowledge about the types of banking systems and their components - banks, types of banking, the conditions for opening a bank and its main active and passive operations. The separate space is devoted to cryptocurrencies and their transactions.
3. Language of instruction: English

CONTENT

№	TOPIC	Academic Hours			
		Full Time		Distance Learning	
		L	S	L	S
1.	**INTRODUCTION** • FINANCIAL SYSTEM • COMPONENTS OF THE FINANCIAL SYSTEM	2			
2.	**BANK SYSTEMS** • CHARACTERISTICS • ORIGIN OF THE BANKS • BANK - DEFINITION • TYPES OF BANKS • BANK BRANCHES	4	2		
3.	**TYPES OF BANKING** • MIXED BANKING • RETAIL BANKING • WHOLESALE BANKING • UNIVERSAL BANKING	4	2		
4.	**INTERNATIONAL BANKING** • INTERNATIONAL MONEY MARKET PARTICIPANTS • MULTINATIONAL BANKS. MAIN PASSIVE OPERATIONS. MAIN ACTIVE OPERATIONS • OFFSHORE BANKING • SHADOW BANKING AND FINANCIAL INNOVATION	2	2		
5.	**ECONOMICS OF BANKS** • LEGAL FORM OF BANKS • LICENSING CONDITIONS FOR BANKS • MAIN PASSIVE AND ACTIVE OPERATIONS • MAIN LIABILITIES AND ASSETS ON THE BANK'S BALANCE SHEET	2	4		
6.	**MAIN PASSIVE OPERATIONS** • DEPOSITS - CHARACTERISTICS, TYPES • TRANSACTION DEPOSITS • NON-TRANSACTION DEPOSITS • NON-DEPOSIT ATTRACTED RESOURCES	2	4		

7.	**MAIN ACTIVE OPERATIONS.SECURITIES IN CURRENT PORTFOLIO** • SECURITIES AS SECONDARY LIQUIDITY RESERVE • SHORT-TERM SECURITIES - CHARACTERISTICS • PRICING CALCULATION OF DIFFERENT TYPES OF YIELD	2	4		
8.	**MAIN ACTIVE OPERATIONS.SECURITIES IN INVESTMENT PORTFOLIO** • INVESTMENTS IN SECURITIES FOR INCOME AND TAX PURPOSES • LONG-TERM SECURITIES - CHARACTERISTICS • PRICING - YIELD AND CHOICE UNDER DIFFERENT INVESTMENT ALTERNATIVES	2	4		
9.	**CREDITS** • CHARACTERISTIC • TYPES • COLLATERAL • CREDITWORTHINESS ASSESSMENT	2	4		
10.	**CURRENCY OPERATIONS** • CASH TRANSACTIONS • FORWARD AND OPTIONS TRANSACTIONS • ARBITRAGE TRANSACTIONS	2	2		
11.	**CRYPTOCURRENCY: PUBLIC/PRIVATE KEYS, TRANSACTIONS, MINING** • THE MAIN EVENTS IN THE HISTORY OF BITCOIN; • UNDERSTAND HOW BITCOIN AND CRYPTOGRAPHY ARE RELATED; • BITCOIN TRANSACTIONS; • BITCOIN MINING;	4			
12.	**BITCOIN IN PRACTICE - BITCOIN, ONLINE PORTFOLOI, SEND/RECEIVE** • PORTFOLIO/COLD STORAGE • UNDERSTAND THE CONCEPT OF BITCOIN PORTFOLIO • ANALYZE HOW A BITCOIN TRANSACTION IS DONE USING BLOCKCHAIN.INFO	2	2		
	Total	**30**	**30**	-	-

Legend: L – Lectures; S – Seminars

TEACHING AND LEARNING METHODS

• Four hours of lectures per week are planned. They may be supplemented by seminars and discussions on pre-defined topics or student-developed assignment. The preparation for each seminar requires two hours of non-classroom commitment of the students. If possible, part of the

training in the discipline is organized in an external business environment or appropriate public institutions.

- Power Point presentations are prepared for all lectures and case studies and practical assignments for the seminars. The technical resources required for the training are: flip-chart, PDA, slide-projector, video, computer class with Internet connection, e-learning platforms (Teams, etc.), additional digital tools for visualizing the material in the discipline.
- Microsoft Project Manager and Primavera Project Planner software are used.

The students' self-study aims at deepening of their preparation on specific problems or mastering other, specific appearances of theoretical processes and dependencies of the local and international money market. It is tailored to the individual preferences and abilities of the students. It involves the assignment of each student and is graded separately, having a certain weight in forming the final grade of the course.

EXTRACURRICULAR ACADEMIC HOURS

Components	Number of Hours	
	Full Time	Distance Learning
1. Practical training		
2. Course project		
3. Essay		
4. Case study		
5. Individual assignment/ team activity	30	
6. Laboratory training		
7. Mid-term exam/ test	20	
8. Ongoing assessment		
9. Exam	40	
Total	**90**	

ASSESSMENT

The course assessment consists of several components.

For full time students the final grade is formed as follows:

FG = 0.5 E + 0.2 MTE + 0.3 IA,

where:

FG	=	Final Grade;
E	=	Exam
MTE	=	Mid-Term Exam;
IA	=	Individual assignments.

Electronic platforms (such as MS Teams; Google Forms; Moodle) and other modern educational technologies are used, both for training and for assessing and controlling its results, including the use of a test center.

The final grade is based on a six-point scale, in which the lowest grade for successful completion of the course is 3. Converted to the ECTS the grading scale the grades are as it follows:

Excellent /6/	Very Good /5/	Good /4/	Average /3/		Poor /2/	
A	**B**	**C**	**D**	**E**	**FX**	**F**
The corresponding number of ECTS credit points is being allocated					No ECTS credit points are being allocated	

QUALIFICATION GOALS

This course is designed in compliance with the requirements of the National Qualification Framework[1] in terms of acquired knowledge, skills and competences for the corresponding EQD and Council Recommendation of Key Competences for Lifelong Learning[2].

The course provides the students with the knowledge of:

- The curriculum aims at forming the knowledge about national banking system, international banking, main activities of banks on local and international money market, characteristics of bitcoin, main transaction with bitcoin and principles of creation of portfolio with cryptocurrency.

The course will help students acquire skills such as:

- cognitive and practical and competences - independence and responsibility, learning competences, communicative and social competences, professional competences.

DISSEMINATION OF THE COURSE

1. LONDON SCHOOL OF ECONOMICS AND POLITICAL SCIENCE, LONDON, UK;
2. LONDON BUSINESS SCHOOL OF ECONOMICS, LONDON, UK;
3. UNIVERSITY OF NICOSIA

LITERATURE

A. Basic

1. Assenova Kamelia,Interest rate and Economic Growth, Saarbrucken, Germany, Lap Lambert Academic publishing, 2013.
2. Cecchetti, S. And Schoenholtz, K. p Money, BankingandFinancial Markets , 6th ed, McGraw-Hill, 2020
3. JasonMikula, Bankingas a Service: Opportunities, Challenges, and Risks of New Banking Business Models, 1st Edition, Kindle Edition, Kogan Page, 2024
4. Barattieri, A., Eden, M., & Stevanovic, D., Risk Sharing, Efficiency of Capital Allocation, and the Connection between Banks and the Real Economy, Journal of Corporate Finance, vol. 60, 2020 Available online: https://doi.org/10.1016/j.jcorpfin.2019.101538
5. Carstens A., Money inthedigitalage: whatroleforCentralbanks?, Bankfor International Settlements, February 2018, https://www.bis.org/speeches/sp180206.htm

[1] The National Qualification Frame of Bulgaria gives the definition of the knowledge, skills and competences which are required as a result of the education process in the corresponding EQD in higher education.

[2] Council Recommendation on Key Competences for Lifelong Learning (OJ 2018/C 189/01)

B. Additional

1. Moorad Choudhry, Neal Ardley, Sharon Bowles, The Principles of Banking, 2nd Edition, Kindle Edition, Wiley, 2022.
2. Victor Haghani, James White, Emmanuel Roman, The Missing Billionaires: A Guide to Better Financial Decisions 1st Edition, Wiley, 2025
3. Vasilis Kostakis , Chris Giotitsas, The (A) Political Economy of Bitcoin, triple C 12(2), 2014, http://www.triple-c.at
4. Digital Currency vs Cryptocurrency: Key Differences, https://101blockchains.com/digital-currency-vs-cryptocurrency/

C. E- sources

1. http://www.usv.com/posts/bitcoin-as-protocol
http://startupboy.com/2013/11/07/bitcoin-the-internet-of-money/
http://startupboy.com/2014/03/09/the-bitcoin-model-for-crowdfunding/
2. http://mercatus.org/sites/default/files/Brito_BitcoinPrimer_embargoed.pdf
3. https://www.gov.uk/government/collections/cryptoassets
4. https://www.investopedia.com/terms/b/bitcoin.asp
5. FinancialCalculator(Bankrate)
6. Formulas, RatiosandIndexesUsedinBanking (UBS)

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