

**UNIVERSITY OF ECONOMICS - VARNA**  
**MASTER DEGREE CENTER**  
**DEPARTMENT OF INFORMATICS**

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Adopted by the FC (record №8 / 05.03.2020)

Adopted by the DC (record №7 / 28.02.2020)

**ACCEPTED BY:**

**Dean:**

(Prof. Vladimir Sulov, PhD)

**SYLLABUS**

**SUBJECT: “E-FINANCE”;**

**DEGREE PROGRAMME: „Computer Science“; MASTER`S DEGREE**

**YEAR OF STUDY: 5 for same field graduates; 6 for other fields graduates;**

**SEMESTER: 9 for same field graduates, 11 for other fields graduates;**

**TOTAL STUDENT WORKLOAD: 180 hours; incl. curricular 60 hours**

**CREDITS: 6**

**DISTRIBUTION OF STUDENT WORKLOAD ACCORDING TO THE CURRICULUM**

<i>TYPE OF STUDY HOURS</i>	<b>WORKLOAD, hours</b>	<b>TEACHING HOURS PER WEEK, hours</b>
<b>CURRICULAR:</b> incl. <ul style="list-style-type: none"><li>• LECTURES</li><li>• SEMINARS /LAB. EXERCISES</li></ul>	30 30	2 2
<b>EXTRACURRICULAR</b>	120	-

Prepared by:

1. ....  
(Assoc. Prof. Silvia Parusheva, PhD)

2. ....  
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Head of department

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(Prof. Julian Vasilev, PhD)

## **I. ANNOTATION**

*E-finance is one of the main directions in the field of e-business that is fundamental to modern business processes of the companies, and the end users. The course “E-finance” is closely linked with the application of modern information and communication technologies in the financial area. The advantages of Internet-based technologies significantly change the nature and the structure of the financial services and allow both traditional and new providers to offer users an effective way of working with them.*

*The course “E-finance” aims to provide knowledge about the theoretical and practical aspects of electronic financial services throughout their range covering online trading with securities and currencies, electronic banking and in particular Internet banking, online insurance, security and protection of Internet banking, electronic payment systems.*

*During the seminars students use software products implemented by Bulgarian and foreign institutions. Students have to prepare an assignment in chosen hot topic within the range of topics.*

*As a result of the education students are expected to be able in the future to put into practice the knowledge and skills in the field of electronic financial services. In case of professional development related to the application of IT in the financial sector their qualifications and practical skills can be further developed.*

## **II. THEMATIC CONTENT**

№	TITLE OF UNIT AND SUBTOPICS	NUMBER OF HOURS		
		L	S	L.E.
<b>Theme 1. New information technologies in finance</b>		<b>3</b>		
1.1	Definition, scope and objectives of E-finance	1		
1.2	Benefits and problematic aspects of E-finance	1		
1.3	Changes and new trends in financial services	1		
<b>Theme 2. Online trading</b>		<b>3</b>	<b>6</b>	
2.1	Participants and functions of online trading	1	2	
2.2	Advantages of online brokerage	1	2	
2.3	Developing and state of e-brokerage	1	2	
<b>Theme 3. Electronic banking</b>		<b>4</b>	<b>4</b>	
3.1	The essence of electronic banking	2		
3.2	Types of electronic banking and chronology in its offering	2	4	
<b>Theme 4. Internet banking</b>		<b>6</b>	<b>6</b>	
4.1	Technology and organization of Internet banking	2		
4.2	Types of systems for Internet banking	2	6	
4.3	Advantages of Internet banking	2		
<b>Theme 5. Security and protection of Internet banking</b>		<b>6</b>	<b>6</b>	
5.1	Potential threats for Internet banking users	3	3	
5.2	Methods for protection and user authentication	3	3	
<b>Theme 6. Online insurance</b>		<b>4</b>	<b>4</b>	
6.1	Essence and purpose of Internet insurance	2		
6.2	Features of the insurance business complicating Internet insurance			
6.3	E-business models for online distribution of insurance products	2	4	
<b>Theme 7. Electronic payment systems</b>		<b>4</b>	<b>4</b>	
7.1	Traditional payment methods and methods of electronic payments	1	1	
7.2	Different kind of electronic payment instruments	1		

7.3	Advantages and disadvantages of different electronic payment instruments	1		
7.4	Electronic payments through providers of payment systems	1	3	
	<b>Total:</b>	<b>30</b>	<b>30</b>	

### **III. FORMS OF CONTROL:**

<b>№</b>	<b>TYPE AND FORM OF CONTROL</b>	<b>Number</b>	<b>extracurricular, hours</b>
<b>1.</b>	<b>Midterm control</b>		
1.1.	Project (on a predefined theme)	1	50
1.2.	Test	1	20
	<b>Total midterm control:</b>	<b>2</b>	<b>70</b>
<b>2.</b>	<b>Final term control</b>		
2.1.	Examination (test)	1	50
	<b>Total final term control:</b>	<b>1</b>	<b>50</b>
	<b>Total for all types of control:</b>	<b>3</b>	<b>120</b>

### **IV. LITERATURE**

#### **REQUIRED (BASIC) LITERATURE:**

1. Parusheva, S. et al. Electronic Business 2nd Part. Software Development Management. Publishing house „Science and Economics” University of Economics – Varna, 2015.
2. Chaffey, D. E-Business and E-Commerce Management: Strategy, Implementation and Practice (6th Edition), Pearson Education, 2015.

#### **RECOMMENDED (ADDITIONAL) LITERATURE:**

1. Laudon, K., Traver, C. E-Commerce 2017: Business, Technology, Society (13th Edition) Pearson, 2017.
2. Joshi, V. C. E-finance - the future is here. 2. ed., Los Angeles, Calif., 2010.
3. Salem, A., Parusheva, S. Developing a Web-Based Ontology for E-Business. International Journal of Electronic Commerce Studies, Taipei, Taiwan: Academy of Taiwan Information Systems Research, 9, 2018, 2, 119 - 132.
4. Parusheva, S. A Study on Adoption of Internet Banking and New Direct Banking Channels with Reference to Young Bulgarian Consumers. Journal of Applied Economic Sciences, Craiova: ASERS Publishing, 8, 2018, Spring 2(56), 510 - 519.
5. Parusheva, S. A comparative study on the application of biometric technologies for authentication in online banking. Egyptian Computer Science Journal, 39, 2015, 4, 116-127.