

**UNIVERSITY OF ECONOMICS - VARNA**  
**FACULTY OF „INFORMATICS“**  
**DEPARTMENT „INFORMATICS“**

---

---

**ACCEPTED BY:**

**Rector:**

( Prof. Dr. Plamen Iliev)

**SYLLABUS**

**SUBJECT: „BUSINESS INFORMATION SYSTEMS“;**

**DEGREE PROGRAMME: „BUSINESS AND MANAGEMENT“; BACHELOR'S DEGREE**

**YEAR OF STUDY: 4; SEMESTER: 7;**

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

**CREDITS: 6**

**DISTRIBUTION OF WORKLOAD ACCORDING TO THE CURRICULUM**

<i>TYPE OF STUDY HOURSE</i>	<b>WORKLOAD, h.</b>	<b>TEACHING HOURS PER WEEK, h</b>
CURRICULAR: incl. <ul style="list-style-type: none"><li>• LECTURES</li><li>• SEMINARS (lab. exercises)</li></ul>	30 30	2 2
EXTRACURRICULAR	120	-

Prepared by:

1. ....  
(Assoc. Prof. Nadezhda Filipova, PhD)

2. ....  
(Assoc. Prof. Silvia Parusheva, PhD)

3. ....  
(Chief Assist. Prof. Y. Alexandrova, PhD)

Head of department: .....  
„Informatics“ (Prof. Vladimir Sulov, PhD)

## **I. ANNOTATION**

*Business information systems (BIS) have strategic importance for the competitive performance of modern companies. They are complex, highly automated, dynamic systems, entailing the application and integration of various information technologies. Consequently, today's users must understand the concepts of BIS and the approaches to their development. This namely determines the targets of the course. First of all, some theoretical essentials of BIS are covered. The main activities and stages in the systems development, and some approaches such as the life cycle model, outsourcing, prototyping, buying a package, etc., are presented. Data bases are of a particular interest in the course. Some modern trends in BIS are also presented.*

*The students will be challenged to take part in discussions, and they will also face working in teams on course works.*

## **II. THEMATIC CONTENT**

No. по ред	TITLE OF UNIT AND SUBTOPICS	NUMBER OF HOURS		
		L	S	L.E.
	<b>TOPIC 1. BASIC CONCEPTS OF BIS:</b> strategic role; mechanism of functioning, components, modern IT	6		3
	<b>TOPIC 2. CLASSIFICATION OF BIS:</b> classification criteria; major types of systems	3		9
	<b>TOPIC 3. DEVELOPMENT APPROACHES:</b> development methodologies; life cycle approach; alternative approaches	6		3
	<b>TOPIC 4. INFORMATION BASE:</b> data bases concepts; data warehouses	6		6
	<b>TOPIC 5. MODERN TRENDS IN BIS</b>	6		6
	<b>TOPIC 6. SECURITY ISSUES:</b> security threats and policies	3		3
	<b>Total:</b>	<b>30</b>		<b>30</b>

### III. FORMS OF CONTROL:

No. by row	TYPE AND FORM OF CONTROL	№	extracurricular, h.
<b>1.</b>	<b>Midterm control</b>		
1.1.	Course work	<b>1</b>	<b>40</b>
1.2.	Presentation on a predefined theme	<b>1</b>	<b>40</b>
<b>Total midterm control:</b>		<b>2</b>	<b>80</b>
<b>2.</b>	<b>Final term control</b>		
2.1.	Examination (test)	<b>1</b>	<b>40</b>
<b>Total final term control:</b>		<b>1</b>	<b>40</b>
<b>Total for all types of control:</b>		<b>3</b>	<b>120</b>

### IV. LITERATURE

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

1. Филипова, Н., Парушева, С. и Александрова, Я. Основи на информационните системи. Унив. изд. „Наука и икономика“, 2017.
2. Laudon, K. and Laudon, J. Management Information Systems: Managing the Digital Firm. Pearson, 2015, 14/E.

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

1. Парушева, С. Използване на система за управление на взаимоотношенията с клиентите в банките – стратегически подход за управление на бизнеса им. Сборник доклади от международна научна конференция „Тенденции и предизвикателства в развитието на икономиката”, Том I, Варна: „Наука и икономика“, 2012, с. 302-308.
2. Парушева, С. Кибератаките в интернет банкирането - предизвикателства към финансовите институции. Сборник доклади от международна научна конференция на тема “Съвременни методи и технологии в научните изследвания”, Варна: „Наука и икономика“, 2012, с. 158-165.
3. Парушева, С. Банките и модерните взаимоотношения с техните клиенти чрез социалните медии. Сборник с доклади от международна научна конференция „Информационните технологии в бизнеса и образованието“, Варна: „Наука и икономика“, 2014, с. 115-122.
4. Филипова, Н., Ф. Филипов и др. Интегрирана система за съвместна работа в обучението по разработване на софтуер. "Наука и икономика", Икономически университет - Варна, 2013 г.
5. Laudon, K., C. Traver, E-Commerce 2014, Pearson, 2013, 10<sup>th</sup> Ed.
6. Marakas, G., J. O'Brien. Introduction to Information Systems. McGraw-Hill/Irwin, 2013, 16<sup>th</sup> Ed.
7. Rainer, R. Jr., C. Cegielski. Introduction to Information Systems. John Wiley & Sons, Inc., 2013, 5<sup>th</sup> Ed.