

**UNIVERSITY OF ECONOMICS – VARNA**  
**FACULTY OF „MANAGEMENT“**  
**DEPARTMENT OF INFORMATICS**

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Adopted by the FC (record №/ date):

ACCEPTED BY:

Adopted by the DC (record №/ date):

Dean:

(Prof. Stoyan Marinov, PhD)

**SYLLABUS**

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

**DEGREE PROGRAMME: „International Business“; BACHELOR`S DEGREE**

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

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

**CREDITS: 6**

**DISTRIBUTION OF WORKLOAD ACCORDING TO THE CURRICULUM**

<i>TYPE OF STUDY HOURS</i>	<b>WORKLOAD, hours</b>	<b>TEACHING HOURS PER WEEK, hours</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. Silvia Parusheva, PhD)
2. ....  
(Assoc. Prof. Ivan Kuyumdzhiev, PhD)
3. ....  
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Head of department .....  
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## 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, 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

№	TITLE OF UNIT AND SUBTOPICS	NUMBER OF HOURS		
		L	S	L.E.
<b>Theme 1. Basic concepts of BIS</b>		<b>6</b>	<b>2</b>	
1.1	Strategic importance of BIS	1		
1.2	Mechanism of BIS functioning	1	2	
1.3	BIS Components	3		
1.4	Modern BIS related IT	1		
<b>Theme 2. BIS classification</b>		<b>6</b>	<b>4</b>	
2.1	BIS classification criteria	3	1	
2.2	Types of BDS	3	3	
<b>Theme 3. BIS development approaches</b>		<b>6</b>	<b>10</b>	
3.1	Methodologies for developing BIS	2	4	
3.2	BIS Life Cycle	2	6	
3.3	Alternative approaches for developing BIS	2		
<b>Theme 4. Information Base of BIS</b>		<b>8</b>	<b>10</b>	
4.1	Database concepts	4	6	
4.2	Data warehouse concepts	4	4	
<b>Theme 5. Security of BIS</b>		<b>4</b>	<b>4</b>	
5.1	Security Threats against BIS	3	4	
5.2	Security policies	1		
<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>extra-curricular, hours</b>
<b>1.</b>	<b>Midterm control</b>		
1.1.	Course work	<b>1</b>	<b>70</b>
1.2.	Presentation on a predefined theme	<b>1</b>	<b>50</b>
	<b>Total midterm control:</b>	<b>2</b>	<b>120</b>
<b>2.</b>	<b>Final term control</b>		
2.1.	Examination (test)	-	-
	<b>Total final term control:</b>	-	-
	<b>Total for all types of control:</b>	<b>2</b>	<b>120</b>

### **IV. LITERATURE**

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

1. Laudon, K., Laudon, J. Management Information Systems: Managing the Digital Firm. Pearson, 15 Ed., 2017.

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

1. Caserio, C., Trucco, S. Enterprise Resource Planning and Business Intelligence Systems for Information Quality. Springer, 2018.

2. Baltzan, P. Business driven information systems. McGraw Hill Education, 2016.

3. Mallach, E. Information Systems. CRC Press, 2016.

4. Manolopoulos, Y. et al. Enterprise Information Systems. Berlin Heidelberg: Springer-Verlag, 2008.