UNIVERSITY OF ECONOMICS – VARNA

FACULTY OF ECONOMICS

DEPARTMENT "INFORMATICS"

Adopted by the FC (record №/ date): **ACCEPTED BY:**

Adopted by the DC (record №/ date): **Dean:**

(Assoc. Prof. Denka Zlateva, PhD)

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

TYPE OF STUDY HOURS	**WORKLOAD, h.**	**TEACHING HOURS PER WEEK, h.**
CURRICULAR: incl. • LECTURES • SEMINARS /lab. exercises	 30 30	 2 2
EXTRACURRICULAR	120	-

Prepared by:

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

2. ……
(Chief Assist. Yanka Aleksandrova, PhD)

Head of department: ……
"Informatics" (Prof. Julian Vasilev, 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, 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.
1. Basic concepts of BIS		**4**	**2**	
1.1	Strategic importance of BIS	1		
1.2	Mechanism of BIS functioning	1	2	
1.3	BIS Components	1		
1.4	Modern BIS related IT	1		
2. BIS classification		**4**	**4**	
2.1	BIS classification criteria	1	1	
2.2	Types of BDS	3	3	
3. BIS development approaches		**6**	**4**	
3.1	Methodologies for developing BIS	2	2	
3.2	BIS Life Cycle	2	2	
3.3	Alternative approaches for developing BIS	2		
4. Information Base of BIS		**6**	**6**	
4.1	Database concepts	3	4	
4.2	Data warehouse concepts	3	2	
5. Security of BIS		**4**	**4**	
5.1	Security Threats against BIS	3	4	
5.2	Security policies	1		
6. Integrated BIS		**6**	**10**	
6.1	Customer Relationship Management Systems (CRM Systems)	3	8	
6.2	Enterprise Resource Management Systems (ERP Systems)	3	2	
	Total:	**30**	**30**	

III. FORMS OF CONTROL:

No by row	TYPE AND FORM OF CONTROL	№	extra-curricular, h.
1.	**Midterm control**		
1.1.	Course work	**1**	**50**
1.2.	Presentation on a predefined theme	**1**	**20**
	Total midterm control:	**2**	**70**
2.	**Final term control**		
2.1.	Examination (test)	**1**	**50**
	Total final term control:	**1**	**50**
	Total for all types of control:	**3**	**120**

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.