Faculty: FACULTY OF TELECOMMUNICATIONS AND MANAGEMENT
Department: GENERAL ENGINEERING
Professional Field: 5.13. GENERAL ENGINEERING
Specialty: DIGITAL ENTREPRENEURSHIP AND HIGH TECHNOLOGY
Educational-qualification degree: BACHELOR

LEARNING COURSE DESCRIPTION

1. Course title: *INTEGRATED BUSINESS PROCESS MANAGEMENT SYSTEMS*
2. Course code: B.45.041.2
3. Type of the course: *Elective*
4. Level: *Bachelor*
5. Year of study: *Second*
6. Semester: *Fourth*
7. Number of credits: *3*
8. Name of the lecturer: *Assoc. Prof. eng. Plamen Pavlov, PhD*
9. Course learning outcomes:

The aim of the course is to form in students a general idea of the approaches in analyzing the business processes subject to automated management. The course introduces students to the methods of strategic planning, organization and control over the implementation of business processes in the company.

Students who have completed their training in the discipline *must acquire:*

Basic knowledge of the essence of the concept of *"Integrated Business Process Management Systems"* and the principles of organization of activities related to the implementation, maintenance and improvement of integrated business information systems in the enterprise.

Competencies: Upon completion of the course, students must have acquired knowledge and gained practical experience in assessing, selecting and maintaining BDS. They must master (be able to demonstrate) the tools and capabilities of the various BDS to optimize the activities of the organization.

10. Teachingmethods:

The way of teaching is in lecture and discussion form, according to the specifics of the subject. The emphasis is on getting acquainted with the different types of integrating business management information systems and using multimedia.

11. Prerequisites:

Students should have knowledge in the following disciplines: Enterprise economy, Quality management systems, Entrepreneurship in the high-tech business sector, Risk management, Business process management.

Courses using the discipline are: Additive production, Production logistics, Digital environment and business, Controlling of high-tech productions.

12. Course contents:

The course focuses on the theory and development of concepts for the implementation and use of software platforms for business process management in organizations. On the analysis of the need for the implementation of such systems, the planning of the implementation and maintenance of business information systems (BDS). To give students a systematic knowledge and practical skills needed to design and implement solutions for building business information systems. Particular attention is paid to the management aspect - decision making, resource planning, quality management, process optimization and more.

The course *"Integrated Business Process Management Systems"* is a complementary and extremely useful discipline including knowledge of the possibilities for implementation and use of business information systems to increase the efficiency of company management.

13. Bibliography

Basic literature:

1. **Вергиев, Д. Станков, И.** Информационни технологии за бизнес мениджмънт, 2018.
2. **Димков, С.,** Информационни системи за мениджмънт, Учебник, Авангард Прима, 2014, ISBN 978-619-160-390-9.
3. **Петков, А**. Информационни системи и технологии в бизнеса, Примакс ООД, 2004.
4. **Филипова, Н., Парушева, С. и Александрова, Я.** Основи на информационните системи. Варна : Наука и икономика, 2017.
5. **Швертнер, К.** Приложение на информационните технологии в развитието на бизнеса, УИ "Св. Климент Охридски", 2018.

6. **Лашина, М.В**. Информационные системы и технологии в экономике и маркетинге, КноРус, 2018.
7. **Ellis, C. A., & Naffah, N.** (2012). Design of office information systems. Springer Publishing Company, Incorporated
8. **Laudon, K. C., & Laudon, J. P.** Management information systems: Managing the digital firm (13th ed.). Upper Saddle River, NJ: Prentice Hall. (2014).
9. **Turban, E., Volonino, L., Wood, G. Information** Technology for Management. Digital Strategies for Insight, Action and Sustainable Performance. 10th Edition Wiley, 2015.
10. **Valacich, J., Schneider, C.** Information Systems Today. Managing in the Digital World, 7th Edition. Pearson, 2015.
11. **Записки от лекции.**

Additional literature:

1. **Уткин, В.,** Информационные системы в экономике: Учебник / В.Б. Уткин. - М.: Академия, 2017.
2. **Тельнова, Ю.,** Информационные системы и технологии / Под ред..Ф.. - М.: Юнити, 2017.
3. **Curtis G., Cabman D.** Business Information Systems, VI-th ed., Prentice Hall, 2008.
4. **Halpin T.,** Information Modelling and Relational Databases, II-nd ed. Morgan Kaufmann, 2008.

14. Assessment methods and criteria:

The course ends with an *ongoing assessment*.

1. Requirements for forming the six-point rating system

Students are given tasks for independent work on quality management systems. The results of the exercises are formed according to a point system. Current control is performed in the form of tests, case studies and practical tasks. The conduct of the classes is controlled by checking the results of the students, according to previously announced criteria. The activity of each student, his personal and collective contribution to the assignments is taken into account. Students receive certification after successful participation in the seminars during the semester, and the minimum requirements for attendance and work is at least 60% of the time for which tests, case studies and practical tasks set by the lecturer are made. The course ends with an ongoing assessment. The individual and team work of the student during the semester is reported - current control during lectures and seminars.

2. Formation of the final assessment

The grade for the course is formed by a point system, the maximum number of points that students can receive is 100 (see Table 1). They are formed by one practical assignment, developed in a team of several students, assigned by the lecturer of the course (according to topics from the syllabus) and two assignments in the seminars - presentation of course work (optional student of given areas, ie topics by syllabus) and practice for knowledge acquisition. With the assessment, which is formed by the obtained sum of points (from lectures and exercises), ie. with current control, the student is formed according to pre-announced criteria. The formation of the current assessment in the training course is in accordance with the received points and their arrangement according to the six-point system, given in Table 1.

Table 1.

Number of points	**Assessment According to the 6-point Scale System**
0 – 20	Fail 2 (F)
20 – 39	Fail 2 (FX)
40 – 49	Satisfactory 3,00 (E)
50 – 59	Satisfactory 3,00 (D)
60 – 69	Good 4,00 (C)
70 – 84	Very good 5,00 (B)
85 – 100	Excellent 6,00 (A)

15. Language of instruction: *Bulgarian*