COURSE DESCRIPTION

Course code	Course group	Volume in ECTS credits	Course valid from	Course valid to
INF2009	C	6	2019 03 20	2022 03 20

Course type	compulsory
Course level	bachelor (first-cycle) studies
Semester the course is delivered	6
Study form	face-to-face

Course title in Lithuanian

Vadybos informacinės sistemos

Course title in English

Management Information Systems

Short course annotation in Lithuanian

Dalyko tikslas – supažindinti su pagrindinėmis vadybos informacinių sistemų (VIS) savokomis, naudojamomis priemonėmis ir suteikti studentams VIS struktūros ir paslaugų analizės įgūdžius. Pagrindinės dalyko temos: VIS struktūra, techninė ir programinė įranga, biuro automatizavimas, kolektyvinio darbo organizavimo sistemos ir premonės, finansinės veiklos efektyvumo įvertinimo modeliai, duomenų bazių projektavimo ir naudojimo principai, duomenų rinkinių analizės priemonės, interneto ir ekstraneto technologijos verslui.

Short course annotation in English

The aim of the course is to introduce the main concepts and tools of management information systems (MIS) and to develop students' skills of analysis of MIS structure and services. The main topics of the course: MIS structure, hardware and software, automated offices and groupware, standard models for financial calculations and accounting, tools for data analysis, internet and extranet technologies for business.

Prerequisites for entering the course

None

Course aim

To provide students with the main concepts of management information systems (MIS), the tools used in MIS, to develop the skills of MIS structure and services analysis.

Links between study programme outcomes, course outcomes, criteria of learning achievement evaluation, study methods and methods of learning achievement assessment

Study programme outcomes	Course outcomes	Criteria of learning achievement evaluation	Study methods	Assessment methods
1) To demonstrate the knowledge of the fundamental theoretical provisions and concepts of business administration and related areas,	1) To identify and define the main concepts of management information systems (MIS)	The student identifies and defines at least half of the given concepts of MIS	Presentation of information (explanations, demonstrations) using visual media; Case- and problem-based teaching (narratives, explanations, discussion). Search and analysis of information using the assigned literature, the Internet, other sources. Discussions, self-reflection.	Written assessment (mid-term exam and the exam); Assessment of practical assignments (the content and the presentation thereof)
	2) To identify and define different types of the functional structures of MIS	The student identifies and defines at least half of the given functional structures of MIS		
	3) To enumerate and describe the principles of the organisation of MIS services and the tools for the use of these services	The student describes at least half of the presented typical services provided by MIS		
3) To apply theoretical innovations and practical	4) To describe the impact of new IS/IT implementation on the needs of	The student describes at least half of IT which had the biggest impact on business administration		

achievements, tendencies and peculiarities of modern business environment, as well as different business contexts to the analysis of business administration situations	business administration	and explains their advantages		
	5) To evaluate and know how to apply computer-based models of management situations analysis and optimal planning	The student identifies and evaluates the main models of management situations and answers at least half of the questions presented about their applying		
7) To demonstrate skills of oral and written communication, using professional business (including English) language	6) To describe the impact of databases and the technologies of data retrieval on business management	The student identifies and describes the main tools of databases and the technologies of data retrieval and answers at least half of the questions presented for the analysis of the problem	Developing individual and/or group practical assignments; presentation of the practical assignments; self-reflection; discussion	Assessment of the practical works, their content, oral presentation.
	7) To prepare and defend individual reports on the works which analyse typical models of business objectives	The student is able to prepare electronic reports about the work carried out in a computer lab and present them according to at least half of the questions formulated for this work		

Links between course outcomes and content

Course outcomes	Content (topics)
1) To identify and define the main concepts of management information systems (MIS)	1. Purpose, structure and methods of analysis, classification of MIS and their relation with the needs of business management. 2. Main groups of MIS resources, tools for the organisation of information technologies. 3. Tools for the organisation of group work and automated offices. 4. The programme of electronic society creation and its impact on business management
2) To identify and define different types of the functional structures of MIS	5. Functional structure of MIS, methods and tools of its analysis and design. 6. Aims, principles of and methods for organisation of electronic business. 7. Automated offices, their equipment and services provided. 3. Tools for organisation of group work and automated offices.
3) To enumerate and describe the principles of the organisation of MIS services and the tools for the use of these services	8. Typical technologies and their realisation. Technologic environment of MIS organisation. 9. MIS software. Adaptation of application packages to users' needs. 10. Organisation of services in distributed systems. Use of internet and intranet technologies.
4) To describe the impact of new IS/IT implementation on the needs of business administration	11. Functional structure, analysis, design tools and methods of MIS. 12. Tools for graphic presentation of statistical data and analysis of tendencies.
5) To evaluate and know how to apply computer-based models of management situations analysis and optimal planning	13. Analytical reports and scenarios and tools for analysis of business situations scenarios, processing of expert estimates. 14. Computerised optimisation tools for problem solving tasks, models of the tasks. Usage of tools and methods for the preparation of production plans, solution of transport and scheduling problems.

6) To describe the impact of databases and the technologies of data retrieval on business management	15. Database technology and its application for the structuring and organisation of management information, e.g. finance, marketing, personnel management and other spheres. Data retrieval methods. 16. Databases of collective and individual use, data security and the principles of the connections made via the internet.
7) To prepare and defend individual reports on the works which analyse typical models of business objectives	17. Principles and tools of modelling spreadsheet. Models of typical management problems. Modelling of investment analysis problems. 18. Implementation of database technology in a spreadsheet. Tools for data control and filtering, preparation and use of search queries. 14. Computerised optimisation tools for problem solving tasks, the models of the tasks. Usage of the tools and methods for the preparation of production plans, solution of transport and scheduling problems.

Distribution of workload for students

Lectures – 30 hrs.
Laboratory activities – 30 hrs.
Independent work – 100 hrs.
Total: 160 hrs

Structure of cumulative score and value of its constituent parts

Colloquium – 20 %.
Laboratory activities and individual reports – 30%.
Examination - 50%.

Recommended reference materials

No.	Publication year	Authors of publication and title	Publishing house	Number of copies in *University library*
		Basic materials		
1.	2010	Gallaugher J. *Information Systems: A Manager's Guide to Harnessing Technology*	Open Textbook Library	https://open.umn.edu/opentextbooks/textbooks/information-systems-a-manager-s-guide-to-harnessing-technology
2.	2008	Stair R. M., Jr., Reynolds G. W. *Fundamentals of Information Systems: a managerial approach*	Course Technology	1
3.	2013	Vidžiūnas, Antanas, Vidžiūnaitė, Miglė. *MS Excel 2013, Skaičiuoklių taikymas apskaitoje ir vadyboje*	Smaltija	4
		Supplementary materials		
4.	2004	Dzemydienė D. *Informacinės sistemos.*	Lietuvos Teisės universitetas	3
5.	2006	Sekliuckis V., Gudas S., Garšva G. *Informacijos sistemos ir duomenų bazės*	Technologija.	1
6.	2014	David Bourgeois, Biola University. Information Systems for Business and Beyond	Open Textbook Library	https://open.umn.edu/opentextbooks/textbooks/information-systems-for-business-and-beyond

Course description designed by

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