



SCHOOL OF BUSINESS
AND MANAGEMENT
TECHNOLOGY OF BSU



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Information Resource Management

OVERVIEW REPORT OF HIGHER EDUCATION STUDY PROGRAMME

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INFORMATION ON EVALUATED STUDY PROGRAMME

Title of study programme	Information Resource Management
Study area	Computer sciences
Study cycle	First
Study mode (length in years)	Full time (4), part time (5)
Volume of the study programme in ECTS credits	240
Degree and (or) Professional qualifications awarded	Bachelor

CONTENT

INFORMATION ON EVALUATED STUDY PROGRAMME	2
INTRODUCTION	4
I. ANALYSIS OF THE PROGRAMME	4
1.1. Programme aims and learning outcomes.....	4
1.2. Curriculum Design, Study process and Student Performance.....	7
II. RECOMENDATIONS	8

INTRODUCTION

The experts assessed the study programme and provided recommendations to coordinators for improving the study programme. During the updating of IRM study programme experts and coordinators constantly communicated. The programme coordinators took into consideration the recommendations of experts and even some versions of the study programme were submitted. Evaluation of the study programme involve the analysis of:

- Aims and learning outcomes of the study programme “Information Resources Management“;
- Corellation between learning outcomes and subjects of the IRM study programme;
- Correlation between learning outcomes of the study programme and the educational standard approved by the Ministry of Education of the Republic of Belarus;
- Curriculum compliance with the aims of the project.

I. ANALYSIS OF THE PROGRAMME

1.1. Programme aims and learning outcomes

Main goal of the IRM program: to form and develop the professional competencies for work in the field of information resources, systems and technologies, business analysis and management.

Learning outcomes are listed according to Dublin Descriptors: **K – knowledge, P – professional skills, R – research skills, S – social skills.**

Main learning outcomes of IRM specialist:

1. Apply basic scientific and theoretical knowledge to solve practical problems. **K**
2. Develop data structures for use in information systems, operational analysis systems and intellectual systems. **P**
3. Perform modeling, design of software tools and documentation to support activities in various subject areas. **P**
4. Perform comprehensive testing of the developed software products and applied software. **P**
5. Plan and organize automated support of various activities. **P**
6. Build and optimize models of various systems and processes. **P**
7. Analyse perspectives and directions of development of information systems and technologies. **R**
8. Work independently and in a team. **S**
9. Generate new ideas focusing on creativity, critical thinking, communication and collaboration. **S**

The programme aims and learning outcomes are well defined and clear, they are based on the academic and professional requirements, public needs and the needs of the labour market.

Foreign experts provided methodology for formulating study goals and outcomes, presented examples and actively participated in the process of creation the goals and outcomes.

It was important for the coordinators that the goals and learning outcomes of the study programme comply with the educational standard approved by the Ministry of Education of the Republic of Belarus, and for the experts – that the goals and learning outcomes of the study programme comply with Bologna process requirements.

For this reason the correlation between learning outcomes of “Information Resource Management” and the educational standard approved by the Ministry of Education of the Republic of Belarus was proposed to make for coordinators (Table 1). Correlation table is done and submitted in the description of the study programme.

Table 1

Study programme learning outcomes	Belarusian standard PC = professional competence AC = academic competence SPC = social and personal competence
1. PL1. Apply basic scientific and theoretical knowledge to solve practical problem K	AC-1 Be able to apply basic scientific and theoretical knowledge to solve theoretical and practical problems.
2. PL2. Develop data structures for use in information systems, operational analysis systems and intellectual systems P	PC-15 To apply methods of system analysis and project management to create and effectively use information technology, systems and resources. PC-17 To develop and apply mathematical models of processes and objects, modern mathematical methods and information technologies for solving problems of economics and management.
3. PL3. Perform modelling, design of software tools and documentation to support activities in various subject areas P	PC-18 To design information systems and conduct reengineering of business processes of organizations and enterprises. PC-3 Develop business documents in accordance with established forms.
4. PL4. Perform comprehensive testing of the developed software products and applied software P	PC-21 Provide the administration and operation of information technology, systems and resources.
5. PL5. Plan and organize automated support of various activities P	PC-18 To design information systems and conduct reengineering of business processes of organizations and enterprises. PC-20 Determine the direction of development of information systems and technologies in managerial and economic activities.
6. PL6. Build and optimize models of various systems and processes P	PC-22 Develop and implement new organizational and management solutions that promote innovative development of enterprises and organizations. PC-18 Design information systems and conduct reengineering of business processes of organizations and enterprises.
7. PL7. Analyse perspectives and directions of development of information systems and technologies R	PC -14 Plan the development of information technologies, systems and resources at enterprises and organizations and predict its results.
8. PL8. To be able to work independently and in a team S	SPC-6 Be able to work in a team. AC-4 Be able to work independently.
9. PL9. To be able to generate new ideas focusing on creativity, critical thinking, communication and collaboration S	AC-5 Be able to generate new ideas (have creativity).

In the final version of the study programme “Information Resource Management” the goal and learning outcomes are in compliance with legal acts and other documents establishing academic and professional requirements for the qualifications of specialists trained.

The correlation between learning outcomes and subjects was done too (Table 2). It is commendable that all the subjects in the study plan, not just updated during the project, were presented in correlation with the study programme outcomes. In the evaluation of the relationship it has been observed that the subjects correlate with the outcomes of the study programme, are related and include all learning outcomes.

Table 2

Courses	Study program learning outcomes								
	1(K)	2(P)	3(P)	4(P)	5(P)	6(P)	7(R)	8(S)	9(S)
Integrated module "Philosophy"	x							x	x
Sociology	x							x	x
The integrated module "Political Scienc"	x							x	x
Integrated module "History"	x							x	x
Safety of human vital activity	x							x	x
Basics of Management	x							x	x
Belarusian language (professional vocabulary)	x							x	x
Foreign language	x							x	x
Higher Mathematics	x					x		x	x
Economic theory	x							x	x
National Economy of Belarus	x							x	x
Economy of organization	x				x			x	x
Term paper on discipline "Economics of organization"	x				x			x	x
Organization Management	x				x			x	x
Law in IT sphere	x							x	x
Fundamentals of Informatics and Programming	x				x			x	x
Basics of Marketing	x							x	x
Intellectual Property and Information Protection	x				x			x	x
Technologies of analysis and data processing	x				x			x	x
Psychology of information perception	x							x	x
Business foreign language	x							x	x
Principles of algorithmization and programming	x		x	x	x			x	
Algorithmization and programming	x		x	x	x			x	
Course work on the discipline "Algorithmization and programming"	x		x	x	x			x	
Computer networks	x				x				
Management of e-business	x	x					x	x	x
Database systems	x	x	x		x			x	x
Term paper on discipline "Database systems"	x	x	x		x			x	x
Administration of information systems	x				x			x	x
WEB technologies	x		x		x				
Information Security Management	x				x			x	x
Informational resources	x				x			x	x
Information systems and technologies	x	x	x		x	x	x	x	x
Designing of information systems	x	x	x	x	x	x	x	x	x
Term paper on the discipline "Design of information systems"	x	x	x	x	x	x	x	x	x
Information Management	x				x		x	x	x
Theory of systems and systems analysis	x					x		x	x
Information theory	x							x	x
Technologies of creation and processing of multimedia	x							x	x
Econometrics	x					x		x	x
Marketing management in IT sphere	x			x		x	x	x	
Reengineering of business processes and systems	x				x	x		x	x
Business planning on the basis of informatization tools	x							x	x
Management of IT projects	x			x	x		x	x	x
Finance and financial management	x							x	x
WEB-design and computer graphics	x			x	x			x	x

Accounting and Audit	x							x	x
Computer graphics systems				x				x	x
Technologies of distance education							x	x	
English for specific purposes	x							x	x

Integrated courses

The programme aims and learning outcomes are consistent with the type and level of studies and the level of qualifications offered. The name of the programme, its learning outcomes, content and the qualifications offered are compatible with each other.

1.2. Curriculum Design, Study process and Student Performance

The study programme was upgraded introducing 14 new innovative courses (58 credits, 24%), defining new goals, outcomes and skills of the study programme as well as formulating principles of organization in implementation and innovative methods (Table 3).

Table 3

No	Courses EN	SBMT need to integrate during the project	Course title in Experimental curriculum	Experimental curriculum ECTS
1	Law in the IT sphere / Право в IT сфере	3	Law in IT sphere	3
2	Intellectual Property and Protection of Information / Интеллектуальная собственность и защита информации	3	Intellectual Property and Information Protection	3
3	Psychology of Information Perception / Психология восприятия информации	3	Psychology of information perception	3
4	Management of IT Projects / Управление IT проектами	3	Management of IT projects	3
5	Multimedia Creation and Processing Technologies / технологии создания и обработки мультимедиа	6	Technologies of creation and processing of multimedia	6
6	Computer Networks / Компьютерные сети	3	Computer networks	3
7	Web Technologies / веб технологии	3	WEB technologies	3
8	English for Specific Purposes / Профессиональный английский	8	English for specific purposes	8
9	Management of e-business / Управление электронным бизнесом	3	Management of e-business	3
10	Marketing Management in IT sphere / Управление маркетингом в IT сфере	5	Marketing management in IT sphere	5
11	Business Planning based on Informatization Tools / Бизнес планирование на базе средств информатизации	3	Business planning on the basis of informatization tools	3
12	Systems of Computer Graphics / системы компьютерной графики		Computer graphics systems	4
13	Technology of distance Learning		Technologies of distance education	4
14	Principles of algorithmization and programming		Principles of algorithmization and programming	7
	ECTS	43		58

Without the 11 newly integrated courses (43 credits, 18%), 3 courses are integrated in addition (Systems of Computer Graphics, Technology of Distance Learning, Principles of algorithmization and programming) – 15 ECTS credits.

So instead of the 43 credits that SBMT need to integrate during the project, 58 credits are allocated in the study programme plan for the courses to be integrated. This will let achieve higher competencies in the training of the specialists of this area.

The curriculum design meets legal requirements. Newly integrated study courses are spread evenly, their themes are not repetitive. The content of the courses is consistent with the type and level of the studies. The content and methods of the courses are appropriate for the achievement of the intended learning outcomes. The content of the newly integrated study courses reflects the latest achievements in science and technologies.

The experts of Alytaus kolegija evaluate newly integrated courses descriptions and the methodological material presenting their conclusions and recommendations. Conclusions about course descriptions have already been written and submitted to course developers, methodological material is being prepared.

The relationship was maintained during the preparation of the courses between the learning outcomes of the programme, learning outcomes of the courses and study methods.

II. RECOMMENDATIONS

1. To publicize the study programme on TV, press, university website.
2. To collaborate with stakeholders, constantly review goals and learning outcomes of the study programme, implement innovations and new technologies.
3. To publicize the program in the international space in order to attract foreign students who can study in the Erasmus+ programme.
4. To promote students' research skills and engage in research activities.
5. Create freely accessible learning material for the new courses, adapt it to teaching foreign students.
6. Acquire e-learning equipment and provide opportunities for virtual mobility.