



SCHOOL OF BUSINESS
AND MANAGEMENT C
TECHNOLOGY OF BSU



PRIVATE INSTITUTE OF MANAGEMENT AND BUSINESS

Management with IT specialization

OVERVIEW REPORT OF HIGHER EDUCATION STUDY PROGRAMME

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INFORMATION ON EVALUATED STUDY PROGRAMME

Title of study programme	Management with IT specialization
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

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INTRODUCTION

The experts assessed the study programme and provided recommendations to coordinators for improving the study programme. During the updating of the study programme “Management with IT specialization“ 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 “Management with IT specialization“;
- Corellation between learning outcomes and subjects of the study programme “Management with IT specialization“;
- 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

The main goals and outcomes of the study programme/curriculum for the speciality aspect “Management with IT Specialization” updated by PIMB are to form definite managerial and ICT competences with P4 graduates that will enable them to increase their competitiveness in the national and international labour market.

As PIMB is engaged in training managerial staff with IT specialization, rather than mere IT specialists, within the framework of IESSED Project, P4 undertakes to form just 5 competences specified in the general 9-item IT specialist profile developed jointly by national and international experts.

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

Main outcomes of the programme:

1. Apply basic scientific and theoretical knowledge to solve practical problems. **K**
2. Plan and organize automated support of various activities. **P**
3. Analyze perspectives and directions of development of information systems and technologies. **R**
4. Work independently and in a team. **S**
5. 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 “Management with IT Specialization” 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
1. Apply basic scientific and theoretical knowledge to solve practical problems.	AC-1. Master and apply basic scientific and theoretical knowledge to solve theoretical and practical tasks
2. Plan and organize automated support of various activities.	PC-8. Apply modern IT technologies and data-processing applications to justify managerial decisions.
3. Analyze perspectives and directions of development of information systems and technologies.	AC-3. Have research skills. PC-28. Seek, systemize and analyze information on organization development outlook, innovative technologies, promising projects and solutions. PC-32. Develop business-plans of creating and introducing new technologies. PC-33. Estimate economic efficacy of innovations and innovative projects. PC-34. Manage innovation procedures.
4. Work independently and in a team.	SPC-6. Be a team player.
5. Generate new ideas focusing on creativity, critical thinking, communication and collaboration.	SPC-2. Be skilled in social interaction. SPC-3. Be able to effect interpersonal communication. SPC-5. Be able to criticize others and regard someone else's criticism properly.

In the final version of the study programme “Management with IT Specialization” 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(R)	4(S)	5(S)
Law in IT sphere	x	x	x	x	x
Intellectual Property and Protection of Information	x	x	x	x	x
Psychology of Information Perception	x	x	x	x	x
Management of IT Projects	x	x	x	x	x
Course work on study subject “Management of IT Projects“	x	x	x	x	x
Multimedia Creation and Processing Technologies	x	x	x	x	x
Computer Networks	x	x	x	x	x
Web Technologies	x	x	x	x	x
English for Specific Purposes	x	x	x	x	x
Team-building	x	x	x	x	x
Management of e-business	x	x	x	x	x
Marketing Management in IT sphere	x	x	x	x	x
Course work on study subject “Marketing Management in IT Sphere“	x	x	x	x	x
Business Planning based on Informatization Tools	x	x	x	x	x
Time management	x	x	x	x	x
Economic Theory	x	x	x		
Microeconomics	x	x	x	x	x
Macroeconomics	x	x	x		
Course work on study subject “Macroeconomics“	x	x	x		
Theoretical Fundamentals of Management	x	x	x		
HR Management	x	x	x	x	x
Statistics	x	x	x		
IT Marketing	x	x	x	x	x
IT Management	x	x	x	x	x

Company Management	x	x	x	x	x
Course work on study subject “Company Management“	x	x	x	x	x
Company (Enterprise) Economy	x	x	x	x	x
Course work on study subject “Company (Enterprise) Economy“	x	x	x	x	x
Network Technologies in Management	x	x	x	x	x
Management Psychology	x			x	x
International Economy	x	x	x	x	x
Finance and Financial Management	x	x	x		
Physical Culture	x			x	x
Integrated module “Philosophy“	x			x	x
Integrated module “Political Science“	x			x	x
Integrated module “History“	x			x	x
Sociology	x			x	x
Specialized module at student option /Great Patriotic War of Soviet people, Culturology, Religious Studies	x			x	x
Specialized module at student's option /Economic History, Ethics, Esthetics	x			x	x
Higher Mathematics	x	x	x		
Security of Human Life Activity	x			x	x
Computer Information Technologies	x	x	x		x
Foreign Language	x			x	x
Nature Management Economics	x			x	x
Belarusian Language (professional vocabulary)	x			x	x
Documentation Support of Management	x	x	x	x	
Foreign Language (business documentation)	x	x		x	x
Fundamentals of Law	x			x	x
Industrial Technologies	x	x	x		
Fundamentals of Modern Natural Science / Internet Technologies in Economy and Management	x	x	x	x	x
Fundamentals of Standardization, Certification and Metrology / Quality Management	x	x	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 13 new innovative courses (65 credits, 28%), 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	PIMB need to integrate during the project	In study plan	ECTC
1	Law in the IT sphere / Право в IT сфере	3	Law in the IT sphere	4
2	Intellectual Property and Protection of Information / Интеллектуальная собственность и защита информации	3	Intellectual Property and Protection of Information	4
3	Psychology of Information Perception / Психология восприятия информации	3	Psychology of Information Perception	4
4	Management of IT Projects / Управление ИТ	3	Management of IT	4

	проектами		Projects	
5	Multimedia Creation and Processing Technologies / Технологии создания и обработки мультимедиа	6	Multimedia Creation and Processing Technologies	7
6	Computer Networks / Компьютерные сети	3	Computer Networks	3
7	Web Technologies / Веб - технологии	3	Web Technologies	4
8	English for Specific Purposes / Профессиональный английский	8	English for Specific Purposes	11
9	Team-building / Командообразование	6	Team-building	7
10	Management of e-business / Управление электронным бизнесом	3	Management of e-business	3
11	Marketing Management in IT sphere / Управление маркетингом в ИТ сфере	5	Marketing Management in IT sphere	6
12	Business Planning based on Informatization Tools / Бизнес-планирование на базе средств информатизации	3	Business Planning based on Informatization Tools	4
13	Time-management / тайм менеджмент	3	Time-management	4
	ECTS	52		65

Instead of the 52 credits that PIMB need to integrate during the project, 65 credits are allocated in the study programme plan for the courses to be integrated. 1 credit of course work is included on study subject “Management of IT Projects”. This will let achieve higher competencies in the training of the specialists of this area.

In conformity with the Instruction on calculating labour output ratio of higher education study programmes using ECTS (approved by Minister of Education of the Republic of Belarus on 6 April 2015), an examination as a form of control of knowledge on a study course adds 1 ECTS credit to the study courses.

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.