EDUCATIONAL ESTABLISHMENT
«Belarus State Economic University»

APPROVED
Rector of Educational establishment «Belarus State Economic University»

V.N. Shimov
Registration No UD 5867-17 / st.

MANAGEMENT AND ECONOMIC INFORMATION SYSTEMS

Syllabus for Master’s program
1-26 81 05 «Marketing»

2017
This syllabus for master program in English is developed on the base of syllabus №UD 2778-16/st., approved 06.07.2016.

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RECOMMENDED FOR APPROVAL BY:
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(minutes № on «16» 02. 2017);
The scientific-methodical Council of the educational establishment «Belarus State Economic University»
(minutes № on «16» 04. 2017)
EXPLANATORY NOTE

The purpose of educational discipline «Management and economic information systems» (MEIS) is to study information technologies and training of master students to use them as a tool of the scientific and practical tasks solving in its subject area.

Tasks of educational discipline «Management and economic information systems» are:
- getting of the knowledge about information technologies and their application for solving of the problems in economics and management;
- mastering of the theoretical foundations about management information systems;
- studying of dataflow at the enterprise;
- getting of the knowledge about development trends in information technologies, information society and the digital economy.

Master should have the following academic competencies, should be able:
- AC-5. To use databases and software in the subject area.
- AC-6. To use fundamental economic knowledge in professional activity.

Master should have the following socio-personal competencies, should be able:
- SPC-1. To improve and to develop the intellectual and common cultural level, to try to obtain moral and physical improvement of the personality.
- SPC-2. To form and to argue own judgments and a professional position.
- SPC-3. To analyze and to make decisions on the social, ethical, scientific and technical problems arising in professional activity.
- SPC-4. To work in team, to direct and to be directed.
- SPC-5. To show an initiative and creativity, including in unusual situations.
- SPC-6. To make a personal example positive impact on people around and participants of professional activity from the point of view of respect for norms and rules of a healthy lifestyle, active creative living position.
- SPC-7. To adapt to new situations in social-professional activity, to realize accumulated experience, the opportunities.

Master should have the following professional competencies, should be able:
- PC-3. To develop and to implement modern innovative approaches in management, economics, marketing.
- PC-5. To develop and to implement marketing products with different complexity level in production-trading process.

As a result of studying discipline «Management and economic information systems» master student must:

to know:
- concepts of information technologies;
- concepts of information systems;
- principles of information systems organization in the subject area;
structure of information systems;
modeling of business processes;
principles of the IT-project management;
methods of information security support.

be able to:
model business processes;
develop software requirement specification;
manage IT-projects in subject area;
use information systems functional abilities in the economic and managerial tasks solving;

possess:
skills in business analysis, using the latest computer statistical software packages;
business process modeling methods based on the use of information technology (including CASE software);
methods of business process reengineering.

Educational technologies include studying of the principles of managerial information processing by means of special software.

Independent work includes studying of the theoretical material on the base of references in this syllabus.

Studying of the educational discipline «Management and economic information systems» is necessary for master students for successful learning of the educational discipline «Econometrics», and also for preparing of the master thesis.

Educational discipline consists of 128 academic hours, including:
for full-time form of education – 36 classroom hours, among them 16 hours – lections, 20 hours – laboratory classes;
for correspondence form of education – 18 classroom hours, among them 8 hours – lections, 10 hours – laboratory classes;

Form of the current control is exam.
THE CONTENT OF EDUCATIONAL MATERIAL

Topic 1. Information society and the digital economy

Basic concepts of the information society. Stages of the information society development. The distinctive features of the information society.


Topic 2. Status and trend of management information technologies development


Topic 3. Information systems in economy

The concept of information systems (IS). Stages of IS development. IS classification. IS structure. Information-controlling structure of the production plant, the types of production processes. IS in the production sphere: automatic process control systems, automated production control systems, control systems of financial and economic activity of the enterprise, analytical data processing.

IS in the non-productive sector.

Topic 4. Management information systems

Basic concepts of control systems. EPR-systems: architecture, requirements and design principles. Functional and service ERP-subsystems. Interaction between subsystems of the ERP and their characteristics. Influence of management information systems for the reorganization of the company.

Organizational management information systems.

Information systems of staff management.

Information technologies of project management.

Business processes reengineering. The role of information technology in reengineering.
**EDUCATIONAL-METHODICAL DISCIPLINE MAP**
«MANAGEMENT AND ECONOMIC INFORMATION SYSTEMS»
FOR FULL-TIME FORM OF MASTER EDUCATION

<table>
<thead>
<tr>
<th>The number of the partition, theme</th>
<th>The title of the partition, theme</th>
<th>Lectures</th>
<th>Workshops</th>
<th>Seminars</th>
<th>Laboratory classes</th>
<th>The number of control independent work hours</th>
<th>Otherwise *</th>
<th>Form of the knowledge control</th>
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<td>2</td>
<td>Status and trend of management information technologies development</td>
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<td>[1-4]</td>
<td>Control task on the computer</td>
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<tr>
<td>3</td>
<td>Information systems in economy</td>
<td>4</td>
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<td>[1-7]</td>
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* References should be included in the partition Otherwise.
### EDUCATIONAL-METHODICAL DISCIPLINE MAP

«MANAGEMENT AND ECONOMIC INFORMATION SYSTEMS»

FOR CORRESPONDING FORM OF MASTER EDUCATION

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<th>The number of control independent work hours</th>
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INFORMATIONAL AND METHODOLOGICAL PART

Methodical recommendations on the organization of master students' independent work in academic discipline «Management and economic information systems»

An important stage in the studying of the educational discipline is independent work of master students. Budget of the time for independent work is recommended as, on average, 1-2.5 to 2-hour classroom lesson.

The main directions of the master student independent working are:

- initially detailed acquaintance with the program of the educational discipline;
- acquaintance with the list of recommended literature for the educational discipline as a whole and on the topics, studying of the necessary literature on the subject, selection of additional literature;
- studying and extension of lecture material through literature and consultations;
- preparation for laboratory works on the specially designed plans with studying of the basic and additional literature;
- preparation for the implementation of diagnostic monitoring forms (control tasks on the computer);
- preparation to the exam.

References

Basic:


Additional:

<table>
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<tr>
<th>Title of the academic discipline with the current discipline should be endorse</th>
<th>Department</th>
<th>Suggestions of changes in the syllabus content</th>
<th>Decision of the department (with the number and date of the minutes)</th>
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<td>Project management</td>
<td>Cross-cultural economic communication</td>
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