DIGITAL ECONOMY
The higher education establishment course program for the major
1-25 80 02 “World Economy”
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RECOMMENDED FOR APPROVAL:

World Economy Department, Belarus State Economic University (Protocol № 10, 14.05.2019);

COURSE INTRODUCTION

The course focuses on theoretical and practical aspects of the digital economy.

**The purpose of the course** is to equip students with knowledge, tools and skills to analyze various aspects of digital economy.

**The aims of the module:**
- to provide detailed knowledge and in-depth understanding of the basic principles of digital economy;
- to explore the structure of digital economy;
- to evaluate trade related aspects of digital economy.

**Interdisciplinary relationships.** The Digital Economy course builds on a number of undergraduate courses including Economics, World Economy, as well as graduate-level courses Commercialization and Management of Innovations, World Commodity Markets and Prices.

On completion of the Digital Economy course, Master’s Degree students should

**know:**
- major theoretical aspects of digital economy;
- key developments in various segments of digital economy;
- key trade related aspects of digital economy;

**be able to:**
- estimate the level of digital technology penetration in various sectors of world economy;
- evaluate the readiness of economy to digital technology absorption;
- develop suggestions on the digitalization of various business segments.

**master:**
- methods of digital technology efficiency assessment;
- digital toolkit in various business segments and policy-making sectors;
- risk assessment in digital economy.

Total student study time of the Digital Economy course, major -25 81 02 “World Economy”
(full-time form of study) – 108 hours, including 36 in-class hours: lectures – 20 hours, seminars – 16 hours.
The form of knowledge control – pass-test.
CONTENTS

Topic 1. Introduction to Digital Economy


Topic 2. Smart economy as a basis of the digital development model

The concept of “smart economy”. Key theories of smart economy. Outcomes and risks of the intellectualization of economy.

Topic 3. Digital economy structure


Topic 4. Key technologies and infrastructure of the digital economy

Advanced robotics, artificial intelligence, Internet of things, cloud computing, big data analytics, blockchain, 3D printing, augmented and virtual reality. Measuring world digital infrastructure: quantitative and qualitative metrics.

Topic 5. Digital economy in the world industrial sector


Topic 6. Digital economy in the world services sector

Services as the leading digital economy sector. New service providing technologies: uberization, chatbots, services aggregator websites. Offshore programming as a dynamic services subsector. Digitalization as an impact factor in the services market.

Topic 7. Digital economy and the world financial system

Topic 8. Digital economy and the world education system


Topic 9. Trade aspects of the digital economy


Topic 10. Policies for trade and development in the digital economy

INFORMATIONAL AND METHODOLOGICAL PART

LITERATURE

Required reading

Additional reading
<table>
<thead>
<tr>
<th>Topic No.</th>
<th>Topic name, topic contents</th>
<th>Lectures</th>
<th>Seminars</th>
<th>Practical classes</th>
<th>Literature</th>
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<tbody>
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<td>Introduction to digital economy</td>
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Educational and Methodological Course Outline
«Digital Economy»
Part-Time Form of Study
ДОПОЛНЕНИЯ И ИЗМЕНЕНИЯ К УЧЕБНОЙ ПРОГРАММЕ УВО
«Digital Economy» / «Цифровая экономика»
на 2019 / 2020 учебный год

<table>
<thead>
<tr>
<th>№ п/п</th>
<th>Дополнения и изменения</th>
<th>Основание</th>
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Учебная программа пересмотрена и одобрена на заседании кафедры__________ (название кафедры) (протокол № _____ от ________ 2019 г.)

Заведующий кафедрой

(ученая степень, ученое звание) (подпись) (И.О.Фамилия)

УТВЕРЖДАЮ

Декан факультета

(ученая степень, ученое звание) (подпись) (И.О.Фамилия)