

PRODUCTION ECONOMICS

ANNOTATION TO THE CURRICULUM OF A HIGHER EDUCATION INSTITUTION

Specialty 1-70 03 01 Highways

	Form of higher education		
	Full-time (day)	Correspondence	Correspondence abbreviated
Course	4	4	
Term	7	8	4
Lectures, hours	50	8	
Practical (seminar) classes, hours	34	6	2
Term paper, semester	7	8	4
Credit, semester			
Classroom hours for the academic discipline	84	14	
Independent work, hours	76	146	38
Total hours of academic discipline / credits	160 hours / 4 s.e.		

1. The discipline belongs to the cycle of general professional and special disciplines (a component of a higher education institution).

The list of academic disciplines studied earlier, the assimilation of which is necessary for the study of this discipline:- economic theory;- economic sociology.

The list of academic disciplines (cycles of disciplines) that will be based on this discipline: - project analysis;- project management in construction;- diploma design.

The purpose of the discipline is to train highly qualified road engineers with economic knowledge in the field of construction and operation of highways.

2. As a result of mastering the academic discipline, the student must

know: - the basics of pricing in the road sector; - the concept of investments, capital investments and their economic efficiency; - the concept of fixed assets, working capital, leasing; - fundamentals of financing and crediting of road construction organizations; - fundamentals of entrepreneurship and management;- concepts of market economy and competition;

be able to:- determine the cost, cost of construction, maintenance and maintenance of roads; - evaluate the profit and profitability of production;- determine the optimal transportation costs for the delivery of materials;- calculate the optimal production plan of a road construction organization;- calculate the economic efficiency of the introduction of new technology.

own:- skills in using normative and technical literature;- ways of solving economic problems;- skills of performing technical and economic calculations, and economic methods of substantiating decisions made within the framework of future professional activity;- the main methods of calculating the economic efficiency of innovation.

3. The development of this discipline should ensure the formation of the following competencies: - AK-1 Be able to apply basic scientific and theoretical knowledge to solve theoretical and practical problems; - AK-2 Possess systematic and comparative analysis; - AK-4 Be able to work independently; - AK-6 Possess an interdisciplinary approach to solving problems; - AK-7 Have skills related to the use of technical devices, information management and computer work; - AK-8 Have oral and written communication skills; - SLK-2 Be capable of social interaction; - SLK-3 Have the ability to interpersonal communication; - SLK-4 Be able to work in a team; - PC-30 Analyze and evaluate the collected data;- PC-32 Use global information resources;- PC-35 Analyze the patterns of the complex taking into account its social significance; - PC-42 Develop business plans for the creation of new equipment and technology; - PC-43 Evaluate the competitiveness of the developed equipment and technologies; - PC-45 Know the prospects for the development of the road network of the Republic of Belarus.

4. Requirements and forms of current and interim certification.

The following forms are used to diagnose competencies:- oral interview during practical classes; - conducting ongoing control surveys on specific topics;- solving multi-level tasks in practical classes;- a student's presentation with an abstract in practical classes, with a report at a conference on topical scientific topics related to the economics of road construction.

To assess the level of knowledge of students, the following diagnostic tools are used:- protection of the course project;- passing the exam.