

DISCIPLINE DESCRIPTION**"Manufacturing technologies"**

1	Specialized module	Manufacturing technologies
2	Specialty	1-25 01 07; Economics and enterprise management
3	Course of Study	1
4	Semester	2
5	Labor intensity in credit units	3
6	Degree, title, full name of lecturers	Master of Science in Economics, Associate Professor Bakhmat A.
7	Objectives	Formation of comprehensive technological thinking, which comprises objectivity, specificity and consistency while studying production systems.
8	Prerequisites	Industrial economics
9	Syllabus	<p>The basics of technology, its role in modern production and economy. Classification of branches industries in accordance with their basic characteristics. Sectoral structure of the national economy of the Republic of Belarus. The role of industry in the production of GDP, foreign trade and the development of other sectors of the national economy of the Republic of Belarus. The technological processes' significance and target. The technological process's structure and the characteristics of its elements. Dynamics of labor costs in the implementation and technological processes' development. The main trends of technological processes' development. Classification of technological processes, their characteristics. Basic parameters of technological processes. Typification of technological processes of diversified industrial production, its role in enhancement of the system of organization and preparation of production. The most important technical and economic indicators of production. Classification and types of industrial raw materials. Fundamentals of technological production of metals and alloys. Classification and properties of metals and alloys. Chemical-technological processes and trends of their intensification. Production of building materials and products. General information of the light industry. General information of the food industry and its products. Technological features of the main food industries (flour, sugar beet, dairy industries). General characteristics of environment changes in regards to the production of material goods. Reasons for industrial wastes emergence. The concept of production complex automation and technological principles of its implementation. Flexible automated technology. Fundamentals and principles of industrial production robotization. Advanced structural materials in mechanical engineering. Basics of their production technology, properties and applications.</p>
10	References	1.Березовский, Н.И. Производственные технологии :учеб.пособие для студ. спец. 1—25 С 1 07 Экономика и

		<p>управление на предприятии : в 2- х ч. Ч.1 / Н. И. 2.Березовский, Е. К. Костюкевич, С. А. Киселев. - Минск : БИП, 2013.</p> <p>3. Бубен, К.К. Производственные технологии.- Минск. : ООО "БИП-С Плюс" Ч. 1. - 2005</p> <p>4. Бубен, К.К.Производственные технологии.- Минск. : ООО "БИП-С Плюс" Ч. 2. - 2005</p> <p>5.Бубен, К.К. Производственные технологии.- Минск. : ООО "БИП-С Плюс", 2005 Ч.3. – 2005</p>
11	Teaching Methods	Explanatory and illustrative, elements of problem learning (problem presentation, variable presentation, partial search method), implemented in lectures; elements of educational and research activities, a creative approach, implemented in practical classes (or laboratory work) and in independent work; communication technologies (discussion, educational debate, brainstorming and other forms and methods), implemented in practical classes and conferences.
12	Tuition Language	Russian