MINISTRY OF EDUCATION OF THE REPUBLIC OF BELARUS

CURRICULUM

Speciality: **1-27 80 01 Engineering Business**　　　　　Degree　Master

Form of education: **full-time**　　　　　Course duration: 1 year
(Course Language: English)

I. Education Schedule

II. Summary data on time budget (in weeks)

	Theoretical training	Examination periods	Practical training	Master's thesis	End-of-course Assessment	Vacation	Total
COURSE	19	5	2	9	-	8	43
	-	-	-	-	4	-	4
	19	5	2	9	4	8	47

Legend:
- ☐ — Theoretical training
- X — Practical training
- // — End-of-course assessment
- : — Examination periods
- / — Master's thesis
- = — Vacation

III. Education Plan

№	Name of module, academic disciplines, course project (course paper)	Examinations	Pass/Fail Tests	Number of academic hours						Distribution by years and semesters — 1st Year						Total credits	Competency Code
						including				Semester 1 — 18 weeks			Semester 2 — 7 weeks				
				Total	In-class	Lectures	Laboratory Classes	Practical Classes	Seminars	Total hours	In-class hours	Credits	Total hours	In-class hours	Credits		
1	**National component**			610	142	94	16	32	0	270	68	9	342	74	11	20	
1.1.	**Economic and Management Module**			340	108	60	16	32	0	180	68	6	162	40	5	11	
1.1.1	Engineering Economics	2		100	40	24		16					100	40	3	3	УПК-1
	Engineering Economics Course Project			60	0								60		2	2	
1.1.2	Enterprise Technology Strategies	1		90	34	18		16		90	34	3				3	УПК-2
1.1.3	Enterprise Information Resource Analysis and Software Management		1	90	34	18	16			90	34	3	2			3	УПК-3
1.2	**Research Module**			270	34	34	0	0	0	90	0	3	180	34	6	9	
1.2.1	Applied scientific research methods	2		90	34	34							90	34	3	3	УК-2
1.2.2	Research work		1, 2	180	0					90		3	90		3	6	УК-1
2	**Component of Educational Institution**			832	362	182	0	180	0	652	290	18	180	72	5	23	
2.1	**Module of engineering and economics disciplines**			300	130	68	0	62	0	120	58	4	180	72	5	9	
2.1.1	Innovation Project Management	2		180	72	36		36					180	72	5	5	СК-1
2.1.2	Logistics	1		120	58	32		26		120	58	4				4	СК-2
2.2	**Module of Management Disciplines**			532	232	114	0	118	0	532	232	14	0	0	0	14	
2.2.1	Business Models and Strategic Management Methods	1		120	48	18		30		120	48	3				3	СК-3
2.2.2	Crisis Management		1	148	72	36		36		148	72	4				4	СК-4
2.2.3	Management and Organizational Behaviour	1		148	72	36		36		148	72	4				4	СК-5
2.2.4	Labour economy		1	116	40	24		16		116	40	3				3	СК-6
3	**Supplementary Education**															/18	
3.1	Philosophy and Methodology of Science[1]	/2	/1	/240	/104	/62			/42	/120	/68	/3	/120	/36	/3	/6	УК-3
3.2	Basics of Information Technology[1]		/1	/108	/68	/34		/34		/108	/68	/3				/3	УК-4

№	Discipline			Total															Comp.
3.3	Pedagogy and psychology of higher education		/2	/108	/54	/34		/17					/108	/54	/3	/3		УК-5
3.4	Foreign Language[1]	/2	/1	/220				/140		/110	/55	/3	/110	/55	/3	/6		УК-6
Number of academic hours				1442	504	276	16	212	0	922	358	27,0	522	146	16,0	43		
Number of academic hours per week										20			21					
Number of course projects																		
Number of course papers				1									1					
Number of examinations				6						4			2/2					
Number of pass/fail tests				6						4/3			2/1					

IV. Practical Training				V. Master's Thesis			VI. End-of-course assessment
Name of practical training	Semester	Weeks	Amount of Credits	Semester	Weeks	Amount of Credits	Master's Thesis Defense
Managerial	2	2	3	2	9	14	

VII. Competency Framework

UC-1	Ability to apply methods of scientific cognition (analysis, comparison, systematization, abstraction, modeling, data validation, decision making, etc.) in self-research activities, generate and implement innovative ideas	1.2.2
UC-2	Ability for critical analysis and evaluation of modern scientific achievements, ability to form a information resource base for solving professional tasks	1.2.1
UC-3	Use of methodology of scientific knowledge, ability to analyze and evaluate the content and level of philosophical and methodological problems in solving research and innovation challenges	3.1
UC-4	Possession of the skills to use modern innovative technologies to solve research and innovation challenges	3.2
UC-5	Ability to carry out pedagogical activities in educational institutions, master and introduce effective educational and information and communications technologies, pedagogical innovations	3.3
UC-6	Command of a foreign language for communication in an interdisciplinary and scientific environment, in various forms of international cooperation, research and innovation	3.4
APC-1	Application of a systematic approach to the organization of production, based on the principles of engineering and enterprise technological development	1.1.1
APC-2	Knowledge how to solve technological tasks related to the development strategy of the organization	1.1.2
APC-3	Ability to search, store, process and analyze information from various sources and databases, present it in the required format using computer and network technologies	1.1.3
SC-1	Possession of the skills to implement innovative projects with the highest possible efficiency under time, cash, resources and quality of the project outcomes constraints	2.1.1
SC-2	Ability to make decisions on the selection of optimal logistics channels, supply chains and schemes, formulate requirements for transport, as well as for storage and warehouse cargo processing systems in order to optimize logistics processes	2.1.2
SC-3	Ability to analyze, plan and forecast the company's business activities using operational, statistical, accounting and management accounting and reporting data, taking into account market conditions and company's production capabilities	2.2.2
SC-4	Ability to analyze and evaluate the effectiveness of the organization's management functions and develop crisis management tools for managing the company's functional areas	2.2.1
SC-5	Ability to develop and apply mechanisms of organizational behaviour control to manage organizational changes and development	2.2.3
SC-6	Ability to analyze the characteristics of labour relations and the specifics of human development in the economic system and choose effective methods for labour resources management	2.2.4

1 General educational disciplines "Philosophy and Methodology of Science", "Foreign Language", "Basics of Information Technology" are optional. The course of "Philosophy and Methodology of Science", and "Foreign Language" is accomplished by passing the corresponding candidate exam, the course "Basics of Information Technology" is accomplished by passing the end-of-course candidate test.

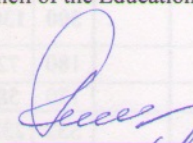The Curriculum is developed on the basis of Standard Curriculum (№ Е 27-2-001/пр-тип , approved on 21.03.2019)
Recommended for Approval by the Scientific and Methodological Council of the Educational Institution "Vitebsk State Technological University" (Minutes № 2 dated 06.11.2020).
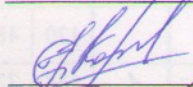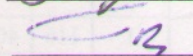
Vice-rector for Academic Affairs	I.A. Petiul
Dean of the Faculty of Economics and Business Management	A.N. Korabava
Head of the Department of Management	O.V. Zaitseva
Head of the Academic Affairs Office	V.V. Petukhou