Документ подписан простой электронной подписью

Должность: Ректор

Дата подписания: 01.06.2023 12:01:32 Уникальный программный ключ:

ca953a0120d891083f939673078ef1a989dae18a

Информация о владель Tederal State Auto nomous Educational establishment of higher education ФИО: Ястребов Олег Александрович **RUDN-University**

Engineering Academy

PROGRAMM

Management of business operations of hi-tech industries

The program track 27.04.05 Innovation studies

Educational program of higher education **Innovation management**

1. The aim

The goals and objectives of the discipline are to gain knowledge, skills and experience in the field of managing the operations of science-intensive industries, characterizing the stages of the formation of competencies and ensuring the achievement of the planned results of mastering the educational program.

2. Requirements to the outcome of the course:

The following competences are formed in the study process.

Table 2.1. A list of formed competences

A code of a compe-	A competence	Indicators of achieving a competence
tence		
GPC-4	Able to develop criteria for evaluating manage-	GPC-4.1. develops criteria for evaluating
	ment systems in the field of innovation based	the effectiveness of innovation manage-
	on modern mathematical methods, develop and	ment
	implement management decisions to improve	
	their effectiveness	
GPC-7	Able to select reasonably and justify structural,	GPC-7.1. shows knowledge of technologi-
	algorithmic, technological and software solu-	cal and software solutions for managing in-
	tions for managing innovative processes and	novation processes
	projects; put them into practice in enterprise in-	
	novative systems, industrial and regional inno-	
	vative systems	
PC-2	Able to find (choose) optimal solutions when	GPC-2.1 shows the knowledge of as-
	creating new science-intensive products, con-	sessing the quality, cost and competitive-
	sidering the requirements of quality, cost, dead-	ness of an innovative product or service
	lines, competitiveness and environmental safety	_
PC-3	Able to develop a plan and program for organ-	PC-3.2 develops a plan and program for or-
	izing innovative activities of a research and	ganizing innovation activities
	production unit, to carry out a feasibility study	
	of innovative projects and programs	

3. Place of the course in the structure of GEP: Part, formed by educational relations participants - the first block of EP HE.

Table 3.1. A list of EP HE components, bringing forward planned results achievement

A code of a compe- tence	A competence	Preceding courses	Following courses
GPC-4	Able to develop criteria for		Design of automated control systems
	evaluating management		Organizational and managerial prac-
	systems in the field of in-		tice
	novation based on modern		Preparation for passing and passing
	mathematical methods, de-		the state exam
	velop and implement man-		Fulfillment, preparation for the de-
	agement decisions to im-		fense procedure and defense of the fi-
	prove their effectiveness		nal qualifying work
GPC-7	Able to select reasonably		Design of automated control systems;
	and justify structural, algo-		Programming technologies for inno-
	rithmic, technological and		vative industries;
	software solutions for		Digital technologies for innovative
	managing innovative pro-		production;
	cesses and projects; put		Workshop on the application of Earth
	them into practice in enter-		remote sensing data and geographic
	prise innovative systems,		information systems
	industrial and regional		

	innovative systems		Organizational and managerial prac-
			tice
			Preparation for passing and passing
			the state exam
			Fulfillment, preparation for the de-
			fense procedure and defense of the fi-
			nal qualifying work
PC-2	Able to find (choose) opti-	Assessment of innova-	Strategic controlling in an innovative
	mal solutions when creat-	tive-investment projects	enterprise
	ing new science-intensive	effictiveness/Interna-	Economics of high-tech industries
	products, considering the	tional sci-tech coopera-	Marketing of innovative products
	requirements of quality,	tion	Supply chain management in an inno-
	cost, deadlines, competi-		vative enterprise
	tiveness and environmental		Introductory practice
	safety		Organizational and managerial prac-
			tice (U)
			Organizational and managerial prac-
			tice (P) Undergraduate practice
			Preparation for passing and passing
			the state exam
			Implementation, preparation for the
			defense procedure and defense of the
			final qualification work
PC-3	Able to develop a plan and	Programming technolo-	Big data processing
	program for organizing in-	gies for innovative indus-	Operational Controlling at an Innova-
	novative activities of a re-	tries	tive Enterprise
	search and production unit,		Digital technologies for innovative
	to carry out a feasibility	innovative production	production
	study of innovative pro-		Strategic controlling in an innovative
	jects and programs		enterprise
			Introductory practice
			Organizational and managerial prac-
			tice (U)
			Organizational and managerial prac-
			tice (P)
			Undergraduate practice
			Preparation for passing and passing
			the state exam
			Implementation, preparation for the
			defense procedure and defense of the
			final qualification work

4. Workload of the course and forms of study work

General workload of the course 3.

Table 4.1. Form of study work of EP HE

	Total	Semester
Form of study work	hours	1
Class hours (total)	36	36
Including:		
Lectures (Lc)	18	18
Laboratory classes (LC)		
Seminars (S)	18	18

Autonomous work (AW), hr		36	36
Control (exam), acad.hours		-	-
In total	hr	72	72
In total	credits	2	2

5. Content of the course

Table 5.1. Content of the course

Наименование раздела дисциплины	Содержание раздела (темы)	
Section 1	Introduction to Operations Management	L,S, AW
Fundamentals of Operational	Operational function in the organization	
Management	Enterprise Management System	
	Organization management through business processes	
	and procedures	
Section 2	The concept of "Six Sigma" (Six Sigma)	L,S, AW
Applied Operations Management Lean management and project management (Lean Man-		
	ufacturing concept)	
	Operating strategies	
	High tech production management	

L- lectures, S - seminars, AW - autonomous work

6. Technical Support Requirements

Table 6.1. Technical Support Requirements

A type of a classroom	Technical Support Requirements	Special equipment, software
For lectures	An auditorium for lecture-type classes, equipped with a set of	-
	specialized furniture; board (screen) and technical means of mul-	
	timedia presentations	
For seminars	Audience for conducting seminar-type classes, group and indi-	-
	vidual consultations, current control and intermediate certifica-	
	tion, equipped with a set of specialized furniture and technical	
	means for multimedia presentations	
For autono-	An auditorium for independent work of students (can be used for	-
mous work	seminars and consultations), equipped with a set of specialized	
	furniture and computers with access to the EIS	

6. Study-methodical and information sources:

Main literature:

- 1) Иванова Т.Б., Журавлева Е.А. New Approaches to Operations Management. (Новые подходы к операционному менеджменту): учебное пособие / М.: Изд-во РУДН. 2012. 91 с. ISBN 978-5-209-03658-6: 90.00
- 2) Веснин В.Р. Теория организации: учебник / М.: Проспект. 2016. 272 с. ISBN 978-5-392-20248-5
- 3) Ильдеменов С.В., Ильдеменов А.С., Лобов С.В. Операционный менеджмент: учебник / М.: Инфра-М. 2009. 337 с. ISBN 978-5-16-002265-9: 179.85
- 4) Чейз Р.Б., Эквилайн Н.Д., Якобс Р.Ф. Производственный и операционный менеджмент: перевод с англ. / 8-е изд. М.: Вильямс. 2003. 704 с. ISBN 5-8459-0157-X: 256.40.

Additional literature:

- 1) Хаустов А.П., Редина М.М. Операционный менеджмент в нефтегазовом комплексе: учебное пособие / М.: Изд-во РУДН. 2008. 255 с. ISBN 978-5-209-03040-9: 0.00
- 2) Федорова Л.А., Заволокина Л.И. Учебно-методический комплекс по дисциплине "Экономика труда в наукоемких отраслях промышленности" для студентов бакалавриата профиля "Управление предприятиями наукоемких отраслей" по направлению 38.03.02 "Менеджмент" /

М.: Изд-во РУДН. 2019. 38 с. ISBN 978-5-209-09497-5

- 3) Кулябов Д.С., Королькова А.В. Введение в формальные методы описания бизнес-процессов: учебное пособие / М.: Изд-во РУДН. 2008. 202 с.
- 4) Кокс Д., Джейкоб Д., Бергланд С. Новая цель: Как объединить бережливое производство, шесть сигм и теорию ограничений: перевод с англ. / М.: Манн, Иванов и Фербер. 2015. 430 с. Библиотека Сбербанка. Т. 32. ISBN 978-5-91657-447-0: 754.00
- 5) Шумаев В.А., Сазонов А.А. Управление логистическими потоками на основе японских технологий: методика применения инструментов Канбан / Менеджмент в России и за рубежом. 2014. № 1. C. 68-74.

Internet recources:

- 1) http://www.businesstest.ru/ business tests
- 2) http://www.smartcat.ru/Personnel/ electronic library of educational literature
- 3) Electronic library systems:
- ЭБС РУДН http://lib.rudn.ru/MegaPro/Web
- ЭБС «Университетская библиотека онлайн» http://www.biblioclub.ru
- ЭБС «Юрайт» http://www.biblio-online.ru
- ЭБС «Консультант студента» www.studentlibrary.ru
- ЭБС «Лань» http://e.lanbook.com/
- ЭБС «Троицкий мост»
 - 4) Data bases and browsers:
- electronic fund of regulatory and technical documentation http://docs.cntd.ru/
- search system Yandex https://www.yandex.ru/
- search system Google https://www.google.ru/
- reference database SCOPUS http://www.elsevierscience.ru/products/scopus/
 - 5) Sites:
- https://www.mos.ru/mka/
- http://www.minstroyrf.ru/

7. Assessment system

Materials for assessing the level of mastering the educational material of the discipline (assessment materials), including a list of competencies indicating the stages of their formation, a description of indicators and criteria for assessing competencies at various stages of their formation, a description of assessment scales, standard control tasks or other materials necessary for assessment knowledge, abilities, skills and (or) experience of activity, characterizing the stages of the formation of competencies in the process of mastering the educational program, the methodological materials defining the procedures for assessing knowledge, skills, skills and (or) experience of the activity, characterizing the stages of the formation of competencies, are developed in full and are available for students on the discipline page in the TUIS RUDN University.

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