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ФИО: Ястребов Олег Александрович  
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**Federal State Autonomous Educational establishment of higher education  
RUDN-University**

**Engineering Academy**

**PROGRAMM DESIGN AND EXPERT EVALUATION OF EDUCATIONAL SYSTEMS**

**The program track 44.04.02 PSYCHOLOGY AND PEDAGOGY**

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**Educational program of higher education**

**PEDAGOGY IN ENGINEERING**

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2023 г.

## 1. The aim

The purpose of mastering the discipline is to obtain knowledge, skills, abilities and experience in the field of designing the educational process, 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. List of formed competences

Код компетенции	Наименование компетенции	Индикаторы достижения компетенции (в рамках данной дисциплины)
ПК-4	Able to plan and organize interactions between participants in educational relations	ПК-4.1. Effectively plans the interaction of participants in educational relations ПК-4.2. Effectively organizes the interaction of participants in educational relations

## 3. Place of the course in the structure of GEP: Basic part- the first block of EP HE.

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

Competency Code	Name of competence	Previous disciplines/practices*	Follow-up disciplines/practices*
ПК-4	Able to plan and organize interactions between participants in educational relations		Organization of digital education Introductory practice Research Practice Pedagogical practice Pre-diploma practice Preparation for passing and passing the state exam Execution, preparation for the defense procedure and defense of the final qualification work

\* - в соответствии с матрицей компетенций и СУП ОП ВО

## 4. ОБЪЕМ ДИСЦИПЛИНЫ И ВИДЫ УЧЕБНОЙ РАБОТЫ

Общая трудоемкость дисциплины составляет 6 зачетных единиц.

Таблица 4.1. Виды учебной работы по периодам освоения ОП ВО

Вид учебной работы	Total hours	Semester
		3
<i>Class hours (total)</i>	36	36
Lectures (L)	18	18
Laboratory classes (LC)		
Seminars (S)	18	18
Control (exam)	-	-
Autonomous work (AW), hr	36	36
Общая трудоемкость дисциплины	ак.ч.	72
	зач.ед.	2

## 5. Content of the course

Таблица 5.1. Содержание дисциплины по видам учебной работы

The name of the section of the discipline	Content of the section (topic)	Types of educational
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		<b>work*</b>
Section 1 Educational design.	Subjects and objects of educational design. Diversity of subjects of project activity. The main objects and forms of educational design.	L, S, AW
Section 2 Types of educational projects	Information type of the project Practice-oriented (applied) type of project Competency-based type of project Creative type of project Research type of project Mixed (combined) project type Design with innovative technologies	L, S, AW
Section 3 Types of pedagogical design. Stages of educational design	Socio-pedagogical design Psychological and pedagogical design Educational design Stage I – modeling Stage II – design Stage III - design.	L, S, AW
Section 4 Principles of pedagogical design	The principle of predictiveness The principle of step-by-step The principle of rationing Feedback Principle The Principle of Cultural Analogy The Principle of Productivity The principle of self-development	L, S, AW
Section 5 The process of design activity in pedagogy	Designing an information and educational environment Determination of the level and sign of pedagogical design Didactic design (design of learning outcomes) Designing the educational process Design of the pedagogical system (for engineering disciplines) Designing the educational component of education Design of pedagogical technologies	L, S, AW

## 6. МАТЕРИАЛЬНО-ТЕХНИЧЕСКОЕ ОБЕСПЕЧЕНИЕ ДИСЦИПЛИНЫ

Таблица 6.1. Материально-техническое обеспечение дисциплины

Тип аудитории	Оснащение аудитории	Специализированное учебное/лабораторное оборудование, ПО и материалы для освоения дисциплины (при необходимости)
For lectures	An auditorium for lecture-type classes, equipped with a set of specialized furniture; board (screen) and technical means of multimedia presentations	equipment: Epson EH-TW5300 projector (LCD, 1080p 1920 x 1080, 2200Lm, 35000:1, 2 x HDMI, MHL, Draper Baronet NTSC screen (3:4) 244/96(8) 152*203 MW
For seminars	Audience for conducting seminar-type classes, group and individual consultations, current control and intermediate certification, equipped with a set of specialized furniture and technical means for multimedia presentations	Computer class; technical facilities: personal computers, projection screen, multimedia projector, NEC NP-V302XG, Internet access. Software: Microsoft products (OS, office suite, including MS Of-

		Office/Office 365, Teams, Skype), Autodesk AutoCAD 2021, Autodesk Auto-CAD 2021, Autodesk Inventor 2021, Autodesk Revit 2021, ArchiCAD 23 (free training versions)
For autonomous work	An auditorium for independent work of students (can be used for seminars and consultations), equipped with a set of specialized furniture and computers with access to the EIS	Computer class; technical facilities: personal computers, projection screen, multimedia projector, NEC NP-V302XG, Internet access. Software: Microsoft products (OS, office suite, including MS Office/Office 365, Teams, Skype), Autodesk AutoCAD 2021, Autodesk Auto-CAD 2021, Autodesk Inventor 2021, Autodesk Revit 2021, ArchiCAD 23 (free training versions)

## 7. Study-methodical and information sources:

### *Main literature:*

1) Бухалков М.И. Управление персоналом: Учебник для вузов / 2-е изд. М.: Инфра-М. 2008. 400 с.

2) Кибанов А.Я. Управление персоналом организации: Практикум: Учебное пособие / Под ред. А.Я. Кибанова. 2-е изд. М.: Инфра-М. 2008. 365 с.

### *Дополнительная литература:*

1) Неверов А.В. Оценка персонала как фактор социального развития организации. Монография / М.: Изд-во РУДН. 2015. 180 с. Электронный ресурс.

2) Михайлова О.Б. Теория и практика управления персоналом. Учебное пособие / М.: Изд-во РУДН. 2013. 195 с. Электронный ресурс.

3) Анцупов А.Я., Ковалев В.В. Социально-психологическая оценка персонала: Учебное пособие / 2-е изд. М.: ЮНИТИ-ДАНА. 2012. 399 с. Электронный ресурс.

4) Егоршин А.П. Основы управления персоналом. Учебное пособие / 2-е изд. М.: Инфра-М. 2008. 352 с. Электронный ресурс.

5) Одегов Ю.Г., Никонова Т.В. Аудит и контроллинг персонала. Учебник / М.: Альфа-Пресс. 2006. 560 с.

### *Internet resources:*

1) Электронно-библиотечная система (ЭБС) РУДН и сторонние ЭБС, к которым студенты университета имеют доступ на основании заключенных договоров:

- 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](http://www.studentlibrary.ru)
- ЭБС «Лань» <http://e.lanbook.com/>
- ЭБС «Троицкий мост»

2) Базы данных и поисковые системы:

- электронный фонд правовой и нормативно-технической документации <http://docs.cntd.ru/>
- поисковая система Яндекс <https://www.yandex.ru/>
- поисковая система Google <https://www.google.ru/>
- реферативная база данных SCOPUS <http://www.elsevierscience.ru/products/scopus/>

- 3) Сайты профильных министерств и ведомств:
- <https://www.mos.ru/mka/>
  - <http://www.minstroyrf.ru/>
- 4) <http://www.smartcat.ru/Personnel> Управление персоналом: электронная библиотека учебной литературы.
- 5) <http://www.seminarna.ru/147.html> Управление персоналом: статьи
- 6) <http://www.univerlib.ru/book/motivacija-i-ocenka-personala-29.html> Управление персоналом организации. Практикум. под ред. А.Я. Кибанова
- <http://www.businessstest.ru/> Деловые тесты

*Educational and teaching materials for independent work of students in the development of the discipline* \*:

1. A course of lectures on the discipline.

\* - all educational and teaching materials for independent work of students are placed in accordance with the current procedure on the discipline page in the telecommunication educational and information system (TUIS) of RUDN University

### 8. 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.

#### Educational designer:

Assistant of innovation management in industries department

Al Hakim Reda

Director of innovation management in industries department

O.E. Samusenko

#### Head of EP HE:

Associate Professor, Ph.D

Yu. A. Nazarova