<table>
<tr><th>Name of subject</th><th>Scientific and pedagogical work (ECTS 12)</th></tr>
<tr><td>Semester(s) in which the discipline is taught</td><td>1st / 2nd / 3rd semesters</td></tr>
<tr><td>Responsible teacher</td><td>Abdullaev Elnur Akhmatovich, Doctor of Philosophy (PhD) in Technical Sciences, Associate Professor
Anarboev Mukhiddin Almanovich, Doctor of Philosophy (PhD) in Technical Sciences, Associate Professor
Nazarov Furkat Daminovich, Doctor of Philosophy (PhD) in Technical Sciences, senior teacher.
Yuldashe Urishbay, Doctor of Physics and Mathematics, professor
Parsoxonov Abdulkobi Gafurovich, Candidate of Physical and Mathematical Sciences, Associate Professor.</td></tr>
<tr><td>Education language</td><td>Uzbek</td></tr>
<tr><td>Connection to the curriculum</td><td>Compulsory</td></tr>
<tr><td>Training hours</td><td>Total hours-360
<table><tr><td>Semester</td><td>1</td><td>2</td><td>3</td></tr><tr><td>Total workload</td><td>120</td><td>90</td><td>150</td></tr></table></td></tr>
<tr><td>ECTS</td><td>12</td></tr>
<tr><td>Discipline objectives / Learning Outcomes</td><td>The purpose of the discipline is to acquire practical skills in teaching; the formation of professional competence, manifested in the readiness to develop models of Electric power industry classes, analyze them taking into account psychological, pedagogical and scientific-methodological requirements.
Learning outcomes
- the ability to apply methods of scientific knowledge in independent research activities, generate and implement innovative ideas;
- own the methodology of scientific knowledge, be able to analyze and evaluate the content and level of philosophical and methodological problems when solving problems of research and innovation activities;
- have the skills to use modern information technologies to solve research and innovation problems;
- the ability to carry out pedagogical activities in educational institutions, to master and implement effective educational and information and communication technologies, pedagogical innovations;
- master the techniques and methods of personal and professional development of a teacher-researcher, building a professional career and pedagogical ideals, norms and principles of pedagogical and scientific ethics, individual abilities and inclinations, etc.</td></tr>
<tr><td>Lessons’ contents</td><td>Content
1. Current problems of Higher education, innovative and scientific-pedagogical activities
2.Methodology of scientific and pedagogical research
3.Information and communication technologies in scientific, pedagogical and innovative activities</td></tr>
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<tr><td></td><td>4.Innovations in the History of Education as a Driving Factor of Development
5.Pedagogy and psychology of higher education
6.Management in Education
7.Teacher's personal effectiveness
8.Innovative approaches and technologies in education
9.Socialization and education in the context of global challenges and risks
10. Pedagogical skills and their formation</td></tr>
<tr><td>The exam format</td><td>Preparation of the report and its protection</td></tr>
<tr><td>Teaching/learning and examination requirements</td><td>No more than 3 days are allotted for drawing up the final report, during which masters put their individual plan in order, prepare written reports, and prepare presentations. Each masters submits the following materials:
- Report text;
- Individual plan and characteristics from the supervisor;
- Presentations of master's students-interns in electronic form.
The credit for research activities (practice) is accepted by the commission in accordance with the approved order, in the presence of all masters and their supervisors.
During the certification, the competencies of master's students-interns, which they mastered in the process of carrying out research activities (practice), are assessed.</td></tr>
<tr><td>CRITERIA for evaluating the tasks performed by students during their Master's degree scientific practice and research work and master's thesis preparation practice</td><td>
<table>
<tr><th>T/r</th><th>Name of events and tasks</th><th>Allocated points</th><th>Report form</th></tr>
<tr><td>1.</td><td>Current problems of Higher education, innovative and scientific-pedagogical activities</td><td>0-10</td><td>A report is prepared and a presentation is made</td></tr>
<tr><td>2.</td><td>Methodology of scientific and pedagogical research</td><td>0-10</td><td>A report is prepared and a presentation is made</td></tr>
<tr><td>3.</td><td>Information and communication technologies in scientific, pedagogical and innovative activities</td><td>0-10</td><td>A report is prepared and a presentation is made</td></tr>
<tr><td>4</td><td>Innovations in the History of Education as a Driving Factor of Development</td><td>0-10</td><td>A report is prepared and a presentation is made</td></tr>
<tr><td>5</td><td>Pedagogy and psychology of higher education</td><td>0-10</td><td>A report is prepared and a presentation is made</td></tr>
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		6	Management in Education	0-10	A report is prepared and a presentation is made
		7	Teacher's personal effectiveness	0-10	A report is prepared and a presentation is made
		8	Innovative approaches and technologies in education	0-10	A report is prepared and a presentation is made
		9	Socialization and education in the context of global challenges and risks	0-10	A report is prepared and a presentation is made
		10	Pedagogical skills and their formation	0-10	A report is prepared and a presentation is made
Recommended Literature	1. Магистрлик диссертацияларини тайёрлаш бўйича методик тавсиянома: магистратура бўлимининг барча мутахассисликлари учун мўлжалланган. – Т: ТДПУ, 2010. – 60 б. 2. Шермухамедова Н.А. Илмий тадқиқот методологияси. – Т.: “Fan va texnologiya”, 2014. – 512 б. 3. Алемасов В., Мамадалиев Ш. Илмий тадқиқот: методология, методика ва ижодиёт. – Т.: Ўзбекистон Республикаси ИИВ Академияси, 2015. – 102 б. 4. Ranjit Kumar. Research methodology a step-by-step guide for beginners. – Sage, New Delhi, 2011. – 415 p. 5. Саифназаров И., Никитченко Г.В., Б.У.Қосимов. Илмий ижод методологияси. – Т.: Янги аср авлоди, 2004. – 190 б. 6. Тўрақулов Х.А., Тўрақулов О.Х., Тўрақулов И.Х., Тўрақулов У.Х. Илмий тадқиқот асослари: 1000 саволга 1000 жавоб. – Т.: Fan va texnologiya, 2019. – 632 б.				