Name of subject	Scientific research and academic-pedagogical work, preparation of a master's dissertation (ECTS 38)						
Subject/module code	ITIMDT3123438						
Science taught semester	$1^{\text{st}}/2^{\text{nd}}/3^{\text{rd}}/4^{\text{th}}$ semesters						
(s).	Abdullaev El	nur Alchma	tovich Do	otor of	Dhilosophy	(DhD) in	
	Technical Scient		,		Pililosophy	(PhD) in	
	Anarboev Mu				Philosophy	(PhD) in	
	Technical Scient				i iliosopii,	, (112) 111	
Responsible teachers	Nazarov Fur	kat Damino	ovich, Doct	tor of	Philosophy	(PhD) in	
	Technical Scient	,					
	Yuldashe Uris	•	•		-		
	Parsoxonov Mathematical		Gafurovich	*	date of Pl	nysical and	
Education language	Uzbek	Sciences, A	ssociate Fior	lessor.			
Connection to the		UZDEK					
curriculum	Compulsory						
Training hours (this	Total hours-1	180					
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	workload	150	90	300	600		
ECTS	38				<u> </u>		
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	10. Studying Existing Problems in Practice within the Framework				
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	Scientific Solutions.  11. Portioinating in Various Conferences and Scientific Seminars of				
	11. Participating in Various Conferences and Scientific Seminars an				
Exam form	Delivering Presentations Based on the Conducted Research Work.				
Teaching/learning and	The report will be submitted in the form of a presentation  No more than 3 days are allotted for drawing up the final report,				
examination requirements	during which masters put their individual plan in order, prepare written reports, and prepare presentations. Each masters submits the following materials:				
	- Report text;				
		-			the supervisor;
					rns in electronic form. actice) is accepted by the
				-	ed order, in the presence of
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	Duri	ing the c	ertification, th	ne competer	ncies of master's students-
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Criteria for assessing	activitie	es (practic	e), are assessed	a.	
student knowledge	grade	points			Assessment criteria
student knowledge	grade	pomis		to make	tudent is considered to be able independent conclusions and , think creatively, observe
	5	90-100	Excellent	independe has gain	ently, apply the knowledge he led in practice, understand,
				of the su	
	4	70-89,9	Good	able to of the known practice, and narra	e student is considered to be observe independently, apply wledge he has gained in understand, know, express, ate the essence of the subject, in idea about the subject.
	3	60-69,9	Satisfactory	When the apply the practice, express, a	e student is found to be able to e knowledge he has gained in understands, knows, can and narrate the essence of the and has an idea about the
	2	0-59,9	Unsatisfactor	When it has not reduced does not	is determined that the student mastered the science program, understand the essence of the and does not have an idea science.
Criteria for evaluating students' scientific	S/n		e of events ad tasks	Allocated points	Report form
research, pedagogical work, and the tasks completed during the preparation of their master's thesis		necessi	The relevance and necessity of the scientific research		A report in the form of a presentation will be prepared on the relevance and necessity of the research topic.
	2	Selectin Approv Master' Topic.	ring a	0-5	A report in the form of a presentation will be prepared on the selection and approval of the

			master's thesis topic
3	The purpose and objectives of the master's dissertation.	0-5	A report in the form of a presentation will be prepared on the objectives and tasks of the master's thesis
4	The procedure and rules for structuring the dissertation contents.	0-5	A report in the form of a presentation will be prepared on the structure and formatting rules of the thesis content
5	The procedure and methods for conducting a literature review within the scope of the dissertation topic	0-10	A report in the form of a presentation will be prepared on the procedure and methods of analyzing literature related to the thesis topic
6	Conducting experiments within the scope of the dissertation work.	0-15	A report in the form of a presentation will be prepared on conducting experiments within the framework of the thesis wor
7	Conducting Experimental Research on the Scientific Topic, Summarizing and Analyzing the Results.	0-15	A report in the form of a presentation will be prepared on conducting experimental research on the scientific topic, summarizing and analyzing the results
8	Preparing and Publishing Scientific Theses and Articles Based on the Research Conducted and the Results Obtained for the Master's Dissertation.	0-10	A report in the form of a presentation will be prepared on preparing and publishing scientific theses and articles based on the conducted research for the master's thesis.
9	Applying the Research Conducted and Its Results from the Master's Dissertation to Practical Use.	0-10	A report in the form of a presentation will be prepared on the practical application of the research and its results conducted within the framework of the master's thesis
10	Studying Existing Problems in Practice within the Framework of the Master's Dissertation and Developing Recommendations for Their Scientific	0-10	A report in the form of a presentation will be prepared on studying existing practical problems within the thesis framework and developing scientific recommendations for their solution

	Solutions.		
11	Participating in Various Conferences and Scientific Seminars and Delivering Presentations Based on the Conducted Research Work.	0-10	A report in the form of a presentation will be prepared on participating in various conferences and scientific seminars and delivering presentations based on the conducted research

\* Note: 60% of the points allocated for current and intermediate control are allocated to independent work assignments. Independent work assignments are evaluated as system assignments through the electronic platform.

## Recommended Literature

## **Main literature:**

- 1. Law of the Republic of Uzbekistan "On electric energy". Received June 24, 2009.
- 2. "On introducing amendments and additions to the Resolution 'On the approval of the rules for the preparation of doctoral dissertations and dissertation abstracts" Decision of the Presidium of the Higher Attestation Commission under the Cabinet of Ministers of the Republic of Uzbekistan, registered on June 23, 2017, registration number 2665-1.
- 3. State standard ISO 50001-2012. Energy management systems. National norm. Requirements and ISO 50001: 2011. Guidance on the application of energy management systems Requirements with an Operation Guide (IDT).
- 4. O.O. Hoshimov. A.T. Imomnazarov. Elektr mexanik tizimlarda energiya tejamkorligi. Toshkent-2015. "Fan va texnologiya" nashriyoti.
- 5. Xoshimov O. Sanoat korxonalarining elektr jihozlari montaji, Toshkent,-2007.
- 6. Majidov. Noana'naviy va qayta tiklanuvchi energiya manbalari. Toshkent-2014.
- 7. M.A. Graña-López, A. García-Diez, A. Filgueira-Vizoso, J. Chouza-Gestoso and A. Masdías-Bonome. Study of the Sustainability of Electrical Power Systems: Analysis of the Causes that Generate Reactive Power. Sustainability 2019, 11, 7202; doi:10.3390/su11247202.
- 8. Raxmonov I.U. "Elektr ta'minoti asoslari". Darslik. Toshkent: 2019, 226 b.

## **Additional literature:**

- 1. Mirziyoyev Sh.M. Yangi Oʻzbekistonda erkin va farovon yashaylik. –T.: "TASVIR nashriyot uyi", 2021.–50 b.
- 2. Mirziyoyev Sh.M. Milliy taraqqiyot yoʻlimizni qati'yat bilan davom ettirib yangi bosqichga koʻtaramiz .—T.:"Oʻzbekiston", 2017—592 b.
- 3. Decree of the President of the Republic of Uzbekistan dated January 28, 2022 No. PF-60 "On the Development Strategy of New Uzbekistan for 2022-2026".
- 4. Decree of the President of the Republic of Uzbekistan No. PF-220 dated 09.09.2022 "On additional measures for the introduction of energy-saving technologies and the development of small-capacity renewable energy sources".
- 5. General Aspects of Energy Management And Energy Audit. Guide Book For National Certification Examination For Energy Auditors and Managers.
- 6. Xoshimov F.A., Taslimov A.D. Energiya tejamkorligi asoslari. Oʻquv qoʻllanma. T.: "Voris", 2014 192 bet.
  - 7. Аллаев К.Р., Хошимов Ф.А. Энергосбережение в

промышленных предприятиях, Монография. – Т.:Fan. 2012.

8. Aripov N. M. Elektr stansiyalarning elektr jihozlari, Toshkent, 2005

## **Internet resources:**

<u>www.lex.uz</u> – National database of information on legal documents of the Republic of Uzbekistan.

www.ziyonet.uz – national educational materials search site.
 www.gov.uz – Government portal of the Republic of Uzbekistan.
 www.google.com – international educational materials search site.
 www.energystrategy.ru – "Energy Policy and Strategy" information portal

<u>www.twirpx.com</u> – international educational materials search site.