Subject/module code SKEETS of Science taught semester 6 th and 7 th semesters 6 th and 7 th semesters Responsible teacher Nazarov Furkat Daminovich, senior teacher. Education language Uzbek Study to the program connection Elective Training hours (this including independent education) Total hours-240. Audience Training hour - 48 Laboratory training hour - 24 Practical training hour - 124 Independent education - 144 hours ECITS 8 The purpose and tasks of subject / learning outcomes The goal of teaching the subject is to teach students the fundamenta of rational use of energy, standardization of consumption by energ form, energy conservation management, use of secondary energ resources, and the implementation of energy conservation policies practice. The task of the discipline is to evaluate methods for controllin current energy consumption at a facility, study energy manageme processes and practices, energy management information system energy audit methods, develop measures to increase energy efficienc and study the if fasibility. Learning outcomes: 1. Study the history and prospects of the development of the electr power system. 2. Get acquainted with the role and socio-economic significance - electric power in society. 3. Study the state policy of the energy sector and its developme trends and prospects in the county and the world. 4. To have an idea of syst	Nome of subject	Energy audit of electrotechnological processes of industrial
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enterprises	Course content (topics)	
audit Topic 3: Insulators and line fittings. Cable structure and cable lines.		audit
-		Topic 4: Standardization of electrical energy consumption at industrial
Topic 5: Current state of energy consumption. Statistical reports.Topic 6: Direct measurement of energy and energy carrier consumptionTopic 7: Partial and indirect measurement of energy and energy carrier		Topic 5: Current state of energy consumption. Statistical reports.Topic 6: Direct measurement of energy and energy carrier consumptionTopic 7: Partial and indirect measurement of energy and energy carrier
consumption parameters Topic 8: World experience in the application of new energy-saving technologies in industry Topic 9: Assessment of electricity consumption by lighting systems		Topic 8: World experience in the application of new energy-saving technologies in industry

and electrical appliances

Topic 10: Assessment of electricity consumption by air conditioners and office equipment

Topic 11: Calculation of heat energy consumption by consumers

Topic 12: Energy balance and its types

Topic 13: Methods and equipment for conducting energy audits

Topic 14: Definitions for heat and electricity

Topic 15: Calculation of electricity consumption by consumers

Topic 16: Accounting for natural gas by consumers

Topic 17: Heat and gas supply systems of industrial enterprises

Topic 18: Energy saving due to reactive power compensation

Topic 19: Cross-sectional audit of energy consumption

Topic 20: Analysis of the efficiency of energy consumption at the facility

Topic 21: Definition of enterprises and buildings

Topic 22: Feasibility study of energy-saving measures

Topic 23: Development of energy-saving recommendations

Topic 24: Analysis of energy use by the end consumer.

II. Instructions and recommendations for organizing laboratory exercises.

In laboratory exercises, students develop practical skills and competencies in various indicators of processes in Energy audit of electrotechnological processes of industrial enterprises, conducting experiments, calculating and drawing tables and graphs. The recommended topics are selected based on opportunities and conditions.

Recommended topics for laboratory work:

1. Energy saving reserves and energy saving measures in various sectors of industry

2. World experience in the application of new energy-saving technologies in industry

3. Power supply system of industrial enterprises

4. Determination and adjustment of the efficiency of heat exchange devices used in industry

5. Heat and gas supply systems of industrial enterprises

6. Compilation of exergy balances of heat-consuming devices

7. Thermal schemes and efficiency of modern steam and gas plants.

8. Settlement with consumers for electricity at a flat rate

9. Correct selection of electric motors by power

10. Saving electricity using reactive power compensation

11. Examples of compiling an energy audit report

12. Calculation of the technical and economic efficiency of energysaving measures.

III. Practical training instructions and recommendations

The teacher's preparation for a practical training session begins with the study of preliminary documents (curriculum, thematic plan, etc.) and ends with the development of a lesson plan. The teacher should have an idea of the goals and objectives of the practical training session, the amount of work that each student must perform.

Methodological guidelines are the main methodological document of the teacher in preparing and conducting practical training sessions.

The purpose of the practical training session is to understand the theory, acquire skills. It is to consciously apply it in educational and professional activities, and to develop the ability to confidently form one's own point of view.

The following topics are recommended for practical training:

1. Application of new energy-saving technologies in industrial heat supply systems

2. Assessment of energy consumption by electric heating and cooling

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	devices
	3. Assessment of energy consumption by steam heating devices
	4. Steam-gas device with steam spraying
	5. Energy efficiency in industry
	6. Heat supply in compressor equipment utilization devices
	7. Energy saving in the gas industry
	8. Energy saving in boiler houses
	9. Operating modes of boiler plants
	10. Energy saving in heat supply systems
	11. Reducing heat loss through the use of double-chamber windows
	12. Infrared heating system for industrial facilities.
	IV. Independent learning and independent work.
	Independent learning competence serves to support students'
	independent self-development and increase the effectiveness of
	professional activities. Students perform independent work on their
	mobile devices under the guidance of a teacher in a traditional or
	electronic form.
	Recommended topics for independent study:
	1. Comparison of energy consumption data
	2. Cross-sectional energy consumption audit
	3. Analysis of energy consumption efficiency at the facility
	4. Description of the enterprise and buildings
	5. Feasibility study of energy saving measures
	6. Development of energy saving recommendations
	7. Analysis of energy use by the end consumer
	8. Energy distribution and energy conversion
	9. Development and evaluation of energy consumption improvement
	projects
	10. Energy saving in heat supply systems
	11. Saving electricity using reactive power compensation
	12. Feasibility study of energy saving measures
	13. Development of energy saving recommendations
	14. Analysis of energy use by the end consumer
	15. Energy distribution and energy conversion
	16. Development and evaluation of energy consumption improvement
	projects
	17. Energy saving in heat supply systems
	18. Reducing heat loss through the use of double-chamber windows
	19. Energy saving in electrical networks.
Student assessment	Assessment of student knowledge is based on the mastery of the
	learning material during the semester and final control (tests,
	assignments, written and oral work results).
	During the course of Energy audit of electrotechnological processes
	of industrial enterprises, students are evaluated on a 100-point system. Of
	these, 50 points are allocated to the current and intermediate results (60%
	of 50 points are current control, independent study and 40% are
	intermediate control), and 50 points are allocated to the final control
	results. Students whose total score of current and intermediate points is
	less than 30 points are not admitted to the final control exam. A student
	who scores 30 or more points in the final control is considered to have
Requirements for exams	mastered the subject.The student must have fully mastered the theoretical and practical
Requirements for exams	concepts of the subject, be able to correctly reflect the results of the
	analysis. The student must have completed the tasks given in the current
	and intermediate forms of independent work, assessment. At the same
	-
	time, he must have received the necessary points from the current, intermediate independent education and final tests in the relevant
	intermediate, independent education and final tests in the relevant subject within the specified time.
	subject whill the specified time.

	A student who has not submitted current control, intermediate control and independent education tasks, as well as who has scored less
	than 30 points on these tasks and types of control, will not be included in
	the final type of control.
	Also, a student who has missed 25 or more percent of the classroom
	hours allocated to the subject without an excuse will be expelled from
	this subject, will not be allowed to take the final exam and will be
	considered as not having mastered the relevant credits in this subject.
	A student who fails the final exam or scores less than 30 points on
	this type of exam is considered academically indebted.
Recommended	Main literature:
Literature	1. Steven W.Blume. Electric Power System Basics. USA.: Wiley –
	Intersciense A John Wiley&Sous, INC Publication, 2007, 260 p
	2. Липкин Б.Ю., "Электроснабжение промышленных
	предприятий и установок", УчебникМ.: "Высшая школа", 1980.
	3. Кудрин Б.И., Электроснабжения промышленных
	предприятий. УчебникМ.: Интермет Инжиниринг, 2005.
	· · ·
	4. Qodirov T.M., Alimov H.A., «Sanoat korxonalari elektr
	ta'minoti», O'quv qo'llanma, ToshDTUT.: 2006.
	5. Qodirov T.M., Alimov H.A., «Sanoat korxonalari va fuqoro
	binolarining elektr ta'minoti», O'quv qo'llanma, ToshDTUT.: 2007.
	6. Taslimov A.D., Rasulov A.N., Usmonov E.G., elektr ta'minoti»,
	O'quv qo'llanma Электр таъминоти. Ilm-ziyoТ.: 2012.
	Additional literature:
	7. O'zbekiston Respublikasini yanada rivojlantirish bo'yicha
	Harakatlar strategiyasi to'grisida-T.2017yil 7 fevral, PF-4947-sonli
	Farmoni.
	8. Uzbekistan Respublikasi «Energiyadan oqilona foydalanish
	togrisida» qonuni. 2019 y.
	9. Конюхова Е.А., Электроснабжение объектов: Учебное
	пособиеМ.: Издательство «Мастерство»; Высшая школа, 2001.
	10. Ополева Г.Н., Схемы и подстанции электроснабжения:
	Справочник: Учебное пособие М.: ФОРУМ: ИНФРА-М, 2006.
	11. Гулямов Б.Х., Салиев А.Г., Ташпулатов Б.Т., Тешабаев Б.М.,
	Правила устройства электроустановок. УзгосэнергонадзорТ.:
	2007.
	12. Аллаев К.Р., Энергетика мира и Узбекистана. Аналитический
	обзорТ.: Издательство «Молия», 2007.
	1
	13. Аллаев К.Р., Электроэнергетика Узбекистана и мираТ.:
	«Фан ва технология», 2009.
	Internet resources:
	16. <u>www.lex.uz</u> – National database of information on legal
	documents of the Republic of Uzbekistan.
	17. <u>www.ziyonet.uz</u> – national educational materials search site.
	18. www.gov.uz – Government portal of the Republic of Uzbekistan.
	19. <u>www.google.com</u> – international educational materials search
	site.
	20. <u>www.energystrategy.ru</u> – "Energy Policy and Strategy"
	information portal
	21. <u>www.twirpx.com</u> – international educational materials search
	site.