Fa name	Metrology and standardization. 4 ECTS
Subject/module code	MS 1404
Science teachable semesters	4 semester
Attached teacher	Muxammadiyev Baxtiyar Saparovich, teacher,
	Murodova Aziza, assistant.
Education language	Uzbek
Science type	Compulsory
	Total hours - 120 . Auditory training hours - 48
Study hours (including	Lecture training hours - 24
independent learning)	Laboratory training hours - 12
	Practical training hours - 12
	Independent education - 72 hour
ECTS	4
Science goals and objectives/ learning outcomes	<b>The goal of teaching science is</b> to form and develop logical thinking and technological thinking in students, to teach them to clearly state their opinions and conclusions in a well-founded manner, and to include them in the content of science. <b>The task of science.</b> Within the framework of the issues to be
	addressed in the process of mastering the subject "Metrology and Standardization", the bachelor:
	- should know the types of measurements and test methods for evaluation; types of measurement systems developed in enterprises, their differences; types of audits and their procedures; procedures and stages of standardization of quality systems; procedures for inspection and control of standardization regulatory documents systems and the selection and use of international standards for specific conditions in
	these activities; - the student must have the skills to understand the requirements of the standards used in standardization; to organize the measurement system on a technical and economic basis based on the specifics of the product production technology; to understand and calculate production modes in the standardization of the measurement system; to correctly identify the objects of the system of regulatory documents taking into account technological parameters; It is important for students to master the subject of "Metrology and Standardization" to use advanced and modern teaching methods and introduce new information and pedagogical technologies.
	Learning outcomes:
	1. "Metrology" and standardization " science studies its development history and prospects
	2. "Metrology " and standardization " describes the concepts of
	3. "Metrology" and standardization " can apply qualitative and quantitative methods of science
	4. "Metrology" and standardization " the basic standards of science
	describes and can explain the difference between 5. "Metrology" and standardization " can analyze the properties of
	science. 6. "Metrology" and standardization " the basic laws and rules of science can explain
	7. "Metrology" and standardization " one of the sciences how many
	8. "Metrology" and standardization " can analyze the use of science in the field.
Course content ( themes)	<b>I. Home theoretical part (Lecture )</b> <b>Subject 1:</b> Introduction, Goals and objectives of the subject of

metrology and standard-ing. System for ensuring the unity of
measurements.Green economy policy as well as its main laws.
Subject 2: Size of size. Uses in the field of Metrology-ladigan basic
terms and definitions.
<b>Subject</b> 3: The main task of Metrological provision. Concept in
terms of Metrological supply, its functions. The main goals of
Metrological supply.
<b>Subject 4:</b> Comparison of measuring instruments.Green economy
policy.
<b>Subject 5:</b> Stages of development of regulatory documents. Uzbek-
kiston state system of standardization Production of standards for
"technical regulation"
Subject 6: Staving of international regional interstate foreign
regulatory documents. International Organization for Standardization /
ISO/MEV/MOZM/
Subject 7. Catagorian of Standards and their types. Technical
Subject 7: Categories of Standards and their types. Technical
aspect-from regulation, the concept of technical regulation.
Subject 8: Basic Laws and regulations of standardization. Standard-
the essence of the law on the ingu.
Subject 9: State control over standards and measuring instruments.
State Metrological examination and control application Sox and objects.
Subject 10: Preference aspects of standardization. Specific features
of the standards. Standardization system.
Subject 11: Methods of standardization. Bar code of goods
produced in the Respublika of Uzbekistan. Green in the transition to
the economy, to ensure energy efficiency.
Subject 12: International organizations on standardization. State
Metrological service.
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	1. Metrology in the field of used basic terms and definitions of the
	essence.
	2. Metrological provision main purpose.
	3. O'lchov instruments metrological characteristics.
	4. Standardization of the system about the basic information in place.
	5. Standards and measurement of the means over state control in the
	importance of.
	6. Standards approval and state listedyxati from the transfer procedure.
	IV Independent study and independent work
	Independent independent kompetensiva education students of self-
	development help and will serve to increase the effectiveness of
	professional activities. The traditional form of teacher leadership in the
	mobile device independent students or their work in electronic form
	shall perform.
	<b>Recommended topics for independent study:</b>
	1. Learn the basic concepts and definitions of metrology.
	2 Measurement types
	3 The standard their types, procedures development and to learn the
	rules of registration and order confirmation
	4 Learn the methods of standardization
	5 The study of certification schemes
	6 Standardization and coding of the information about the product
	7. The international organization for standardization and metrology.
	8. Metrology and metrological supply
	9. Description of modern measuring instruments and their
	10. Due to the assessment of measurement uncertainty.
	11. Review and ensure that the etalon one measure.
	12. Technical regulations and to work them out
	13. The role and importance of standards in quality management
	14. Sertifkatlashtirish and its legal-normative supply.
	15. Sertifkatlashtirish work in and out of place.
Student assessment	Assessment of student knowledge is based on the mastery of
	teaching materials (tests, assignments, written and oral work results)
	during the semester and during the final examination.
	During the course, students are assessed on a 5-point system
	(electronic platform 100 points). The electronic platform is 100 points -
	50 points are allocated for current control, independent learning and
	intermediate control (60% of 50 points are JN, MT and 40% ON), and
	50 points are allocated for the final control result. 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 mastered the subject.
	Electronic platform "Metrology" and in the third semester of the
	subject "Standardization ", the current, independent study, intermediate
	and final control points are distributed as follows.
Exam requirements	The student must have fully mastered the theoretical and practical
	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
	intermediate independent education and final tests in the relevant
	intermediate, independent education and final tests in the relevant
	Subject within the specified time.
	control and independent education tasks as well as who has accord loss
	than 30 points on these tasks and types of control will not be included in
	man so points on these tasks and types of control, will not be included in
•	the tinal type of control
	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 even is considered academically indebted
D 1.1	uns type of exam is considered academically indebied.
Recommended	Basic literature:
Literature	I.Badalov.N.J. Metralogy and standardization. Darislik. 2023.
	303 pp.
	2.Ismatullaev P.R., Matyakubova P.M., Turaev SH.A. Metrology,
	standardization and certification. Textbook. "Lisson-press", Tashkent,
	2015423b.
	3.Abduvaliev A.A., Latipov V.B., Umarov A.S. I Dr. Osnovi
	standartizasii, metrologii, sertifikasii I Upravlenie kachestvom T.:
	NIISMS 2007 555 P.
	4.Ismatullaev P.R., Kodirova SH.A. Fundamentals of Metrology.
	Tutorial Tashkent "Tafakkur " nublishing house 2012 -304 PP
	5 Ismatullayev PR et al Metrology standardization and
	cartification Taythook Tashkant 2001 360h
	Additional literatures
	1. Abduvallev A.A. et al. Fundamentals of standardization,
	2007.
	2. Goncharov A.A., Kopylov V.D. Metrology, standardization and
	certification. The training manual. 2nd edition stereotype. Moscow:
	Publishing center "Academy", 2005.B.
	3 B Mukhammadiyey A Abdurakhmanoy Textbook
	on"Construction of measuring instruments " 2023.
	4 A Abdurakhmanov Measurement uncertainty in science and
	technology textbook 2022
	5 Nazarov V N Karabegov M A Mammadov R K Fundamentals
	of matrology and technical regulation Taythook St. Detersburg: St.
	Detershurg State University ITMO 2008 110 D
	C Diverse Ver M. Metroleon, standardization and cartification.
	6. Dimov Yu. M. Metrology, standardization and certification:
	textbook. Publishing house "Peter", St. Petersburg, 2013. 496 P.
	7. Ismatullayev P. R., Kadyrova SH. A., Umarova N. S.
	Methodological indication for the passage of practical training in the
	subject of Metrology, standardization and certification. DTO 2013.
	8. Abduvaliev A. A., Latypov V. B., Umarov A. S. Alimov M. N.,
	Khakimov O.SH., Hwang W. I. Standardization, Metrology,
	certification, quality Tashkent: SMSITI, 2008. Tutorial
	"fundamentals of Metrology".
	9. Abduvaliev A. A., Latipov V. B., Umarov A. S. Alimov M. N.,
	Khakmov O.SH., Shaozimov U. X. Metrology and standardization
	Т.:
	10 Shaozimov U X Metrology and standardization - T "Science and
	technology" 2019 204
	Internet sources.
	1 http://www.gov.uz_Official_website_of_the_Government_of_the
	Republic of Uzbekistan.
	2.http://www.lex.uz -National database of legislative acts of the
	Republic of Uzbekistan
	3.http://www.standart.uz -Özstandart agency
	4.http://www.smsiti.uz -Scientific Research Institute of
	Standardization. Metrology and certification
	5. http://www.easc.org.by -Interstate Council for Standardization
	Metrology and Certification of the Commonwealth of Independent
	States
	6 http://www.zivonet.uz – Education.portal
1	Simp. ((ii ii ii 21) Siloting Dunoution portui

	7.http://www.window.edu.ru – the whole Russian education portal
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