## Syllabus Form of Academic Discipline

No	Field name	Detailed content, comments
1	Name of the faculty	Faculty of
	-	Automatics and Computerized Technologies
2	The leveleducation of higher	First (bachelor's)
3	Code and title of specialty	151 – Automation and computer-integrated technologies
4	The type and title of the educational program	Educational professional programs: «Automation and computer-integrated technologies» «System engineering»
5	Code and title of the discipline	Meter Metrology
6	Number of ECTS credits	3
7	The structure of the course (distribution by type and hours of training)	Lectures – 20 hours, practical – 4 hours, laboratory – 12 hours, consultations – 6hours, independent work – 48 hours, semester control – test.
8	Schedule (terms) of study of the subject	1-th year and 2-th semester of study
9	Prerequisitesthe discipline for learning	Disciplines must be studied before "Physics" "Higher mathematics"
10	Abstract (content) of the discipline	<ul> <li>Disciplines of basic (professional) training, containing content modules:</li> <li>1. Legal metrology. Physical quantities.</li> <li>System of units of physical quantities.</li> <li>Principles and methods of measurements.</li> <li>2. Assessment of accuracy and quality of measurements. Measurement errors and uncertainties.</li> <li>3. Basic methods and means of measuring radio-electric quantities.</li> </ul>
11	Competencies, knowledge, skills, understanding that a higher education acquirer has in the learning process	General competences GK1. Ability to apply professional

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12	Learning outcomes of a Higher Education applicant	Program learning outcomes PLO 7 to know: theoretical and legislative provisions of metrology, basic methods and technical means of measuring electrical quantities in Telecommunications and Radio Engineering; PLO 13 be able to: choose a method and means of measurement for a certain measurement task, conduct a measurement experiment, identify sources of errors, eliminate or reduce their influence on the measurement result; present the measurement result.
13	Assessment system in	Evaluation of the student's work during the
	accordance with each task for taking tests/exams	semester: 1. Work out and defend laboratory works. 2. At least 60 points will be deducted for the semester. 3. Pass the test. 4. Take a credit. Grade for the semester $Q_{ceM}$ : (15-20)×3 lab+(1-20) x2pz =(60-100) points. Grade for the credit $O_3$ = (60-100) points. Final grade is calculated according to the formula: $Q_{ceM}x0,6 + Q_3x0,4 = (60-100)$ points.
14	The quality of the educational process	Compliance with the principles of academic integrity (http://lib.nure.ua/plagiat). Update of the work program of the discipline - 2022. The laboratory workshop is equipped with modern analog and digital Measuring devices.
15	Methodological support	<ol> <li>Ignatkin, V.U. Basics of metrology of tax instruments and measuring equipment [Text]: Study guide / – Zaporizhzhya: ZNTU, 2017 - 120 p.</li> <li>Methodological instructions for the laboratory workshop in the discipline "Metrology" for students of specialty 151 – Automation and computer- integrated technologies / Edited by. Degtiarov O.V.</li> <li>Kharkiv: Khnure, 2022 55 p. 3.</li> <li>Methodological instructions for the practical workshop in the discipline "Metrology" for students of specialty 151 – Automation and computer- integrated technologies / Edited by. Degtiarov O.V.</li> <li>Kharkiv: Khnure, 2022 55 p.</li> <li>Methodological instructions for the practical workshop in the discipline "Metrology" for students of specialty 151 – Automation and computer- integrated technologies / Edited by. Degtiarov O.V.</li> <li>Kharkiv: Khnure, 2022 56 p.</li> <li>Methodological instructions for independent work in the discipline "Metrology" for students of specialty 151 – Automation and computer- integrated technologies / Edited by. Degtiarov O.V.</li> <li>Kharkiv: 151 – Automation and computer- integrated technologies / Edited by. Degtiarov O.V.</li> <li>Kharkiv: nure, 2017– 17p.</li> </ol>

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