

Syllabus Form of Academic Discipline

№	Field name	Detailed content, comments
1	Name of the faculty	Faculty of Infocommunications
2.	The level of higher education	Bachelor's
3.	Code and title of specialty	152 Metrology and Information-Measuring Engineering
4.	The type and title of the educational program	Educational professional program «Technical Expertise»
5.	Code and title of the discipline	Interchangeability and technical measurements
6.	Number of ECTS credits	3
7.	The structure of the course (distribution by type and hours of training)	18 h. –9 lectures, 6 h. – 3 practical, 12 h – 3 laboratory , 6 h. – 3 consultations, 48 h. – independent work, semester control: credit
8.	Schedule (terms) of study of the subject	2-nd course, 3-d semester of study
9.	Prerequisites for learning the discipline	A higher education applicant should to know Basics of Technical Regulation, Basics of standardization
10.	Abstract (content) of the discipline	Content modules (topics): 1. Elements and parameters of parts and joints. 2. Smooth cylindrical connections. 3. Means of technical measurements.
11.	Competencies, knowledge, skills, understanding that a higher education acquirer has in the learning process	Ability to use means of technical measurements, to carry out calibration; process and submit measurement results. Ability to perform dimensional analysis of structures to justify their accuracy; develop technical documentation, drawings and diagrams to obtain the accuracy of parts
12.	Learning outcomes of a Higher Education applicant	Ability to demonstrate knowledge and understanding of the principles of standardization of accuracy of standard parts and joints, characteristics of normalized accuracy and actual; elements of dimensional analysis of structures to substantiate their accuracy; existing systems of tolerances and landings of standard connections
13.	Assessment system in accordance with each task for taking tests/exams	1. Perform 3 Practical work 2. Work out and defend 3 laboratory works. 3. Get at least 60 points per semester. 4. Pass the credit. Grade for the semester $O_{cem} : (15-20) \times 3l + (5-11) \times 3p = (60-100)$ points Credit in oral form Final score: $O_{д}^{зал} = 0,6 \cdot O_{cem} + 0,4 \cdot O_{зал}$.
14.	The quality of the educational process	Adherence to the principles of academic integrity (http://lib.nure.ua/plagiat). Updating the content of the discipline – 2020.
15.	Methodological support	1. Комплекс навчально-методичного забезпечення навчальної дисципліни "Взаємозамінність та технічні вимірювання" підготовки бакалавра спеціальності 152 «Метрологія та інформаційно-вимірювальна техніка», освітня програма «Технічна експертиза» [Електронний ресурс] / ХНУРЕ ; розроб.

		<p>О.В. Дегтярьов. – Харків, 2020. – 300 с. http://catalogue.nure.ua/knmz.</p> <p>2. Железна, А. М. Основи взаємозамінності, стандартизації та технічних вимірювань [Текст] : навчальний посібник з гифом МОН / А.М. Железна, В.А. Кирилович. – К. : Кондор, 2014. – 796 с.</p> <p>3. Методичні вказівки до практичних занять з дисципліни “Взаємозамінність та технічні вимірювання” для студентів спеціальності 152 – метрологія та інформаційно-вимірювальна техніка / Упоряд.: Дегтярьов О.В., – Харків: ХНУРЕ, 2015. – 60 с</p>
16.	The developer of the Syllabus	<p>O.V. Degtiarov, Associate Professor of the MTE Department, PhD in Technical Sciences E-mail: oleksandr.degtiarov@nure.ua</p>