No	Field name	Detailed content, comments
1.	Name of the faculty	Faculty of Information Radio Technologies
	The state of the state of	and Technical Information Protection
2.	The level of higher education	Bachelor's degree
3.	Code and title of specialty	171 Electronics
4.	The type and title of the educational	Educational and professional program
	program	"Systems, technologies and computer media"
5.	Code and title of the discipline	"Measurements at sound and ultrasonic
	1	frequencies"
6.	Number of ECTS credits	5
7.	The structure of the course (distribution by	Lectures - 24 hours; practical classes - 8
	type and hours of training)	hours; laboratory classes - 16 hours;
		independent work - 64 hours; semester
		control - combined exam.
8.	Schedule (terms) of study of the subject	Course - 4; semester - 7.
9.	Prerequisites for learning the discipline	The disciplines "Physics", "Theoretical
		foundations of acoustics", "Sound recording
		and editing", "Psychoacoustics" should be
		studied earlier.
10.	Abstract (content) of the discipline	Compulsory discipline of professional and
		practical training, contains content modules:
		1. General characteristics and classification of
		acoustic measurement techniques
		2. Metrological support and mathematical
		processing of acoustic measurement results
		3. Methods of processing acoustic signals
		4. Technique of acoustic measurements in air.
		5. Technique of acoustic measurements in
		liquids.
		6. Measuring volumes in air and liquid.
11	Compatancias knowledge skills	7. Acoustic measurements indoors.
11.	Competencies, knowledge, skills,	Ability to test and install devices and models of information and telecommunication
	understanding that a higher education acquirer has in the learning process	systems and networks, radio systems and
	acquirer has in the learning process	television and radio broadcasting systems in
		accordance with technical regulations, tasks
		and other regulations.
		Ability to diagnose and investigate the state of
		objects, their elements, equipment (modules,
		blocks, nodes) and models of information,
		telecommunication systems and networks,
		radio systems and television and radio
		broadcasting systems.
		Ability to choose methods and practical
		means of measuring parameters and
		performance of devices, their elements,
		equipment (modules, blocks, nodes) and
		services of information, telecommunication
		systems and networks, radio systems and

		radio broadcasting systems and their		
12.	Learning outcomes of a Higher Education applicant	elements.  Apply experimental skills (knowledge of experimental methods and procedures for conducting experiments) to test hypotheses and study the phenomena of electronics, be able to use standard equipment, plan, make		
		diagrams; analyze, model and critically evaluate the results.		
13.	Assessment system in accordance with each task for taking tests/exams	<ol> <li>Practice and defend laboratory work.</li> <li>Perform 2 counter. work in practical classes 3 Prepare an abstract.</li> <li>Get at least 60 points per semester.</li> <li>Pass the combined exam.</li> <li>Grade for the semester: (2-4) x4 - practical classes + (3-5) x4 - laboratory classes + (15-25) x2-control work + (8-14) abstract = (60-100) points.</li> <li>Grade for the semester O<sub>CEM</sub>: (3-5) x4 - practical classes + (2-4) x4- laboratory classes + (15-25) x2 - control work + (6-10) - abstract = (60-100) points.</li> <li>Grade for the exam O<sub>EK3</sub> = (60-100) points.</li> <li>The exam is combined.</li> <li>The final score O<sub>CEM3</sub> is calculated by the</li> </ol>		
		formula:. $O_{\pi}^{\text{ek3}} = 0, 6 \cdot O_{\text{cem}} + 0, 4 \cdot O_{\text{ek3}}$		
14.	The quality of the educational process	Adherence to the principles of academic integrity (http://lib.nure.ua/plagiat). Update of the work program of the discipline - 2019. The laboratory workshop is equipped with modern measuring devices, including digital oscilloscope SDS-E and generator FY6800, external 4-channel sound card Bherindger, modern measuring microphones.		
15.	Methodological support	Комплекс навчально-методичного забезпечення навчальної дисципліни "Вимірювання на звукових та ультразвуковихчастотах "підготовки бакалавра спеціальності 171 «Електроніка» "освітня програма «Системи, технологіі і комп'ютерні засоби мультімедіа» [Електронний ресурс] / ХНУРЕ; розроб. В.М. Олейніков. — Харків, 2019. — 353 с. <a href="http://catalogue.nure.ua/knmz">http://catalogue.nure.ua/knmz</a> .		
16.	The developer of the Syllabus	Professor, Vladimir Oleynikov, E-mail: vladimir.oleinikov@nure.ua		