



Subject card

Subject name and code	Fundamentals of music, PG_00059441						
Field of study	Chemical Technology, Civil Engineering, Chemistry, Technical Physics, Environmental Engineering, Electrical Engineering, Power Engineering, Electronics and Telecommunications, Biotechnology, Geodesy and Cartography, Biomedical Engineering, Electronics and Telecommunications, Chemistry in Construction Engineering, Biomedical Engineering, Biomedical Engineering, Nanotechnology, Spatial Development, Engineering and Technologies of Energy Carriers, Corrosion, Nanotechnology, Automation, Robotics and Control Systems, Green Technologies, Green Technologies, Spatial Development, Power Engineering, Power Engineering						
Date of commencement of studies	February 2022	Academic year of realisation of subject			2022/2023		
Education level	second-cycle studies	Subject group					
Mode of study	Full-time studies	Mode of delivery			at the university		
Year of study	1	Language of instruction			Polish polish		
Semester of study	2	ECTS credits			2.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Zakład Technologii Maszyn i Automatykacji Produkcji -> Institute of Manufacturing and Materials Technology -> Faculty of Mechanical Engineering and Ship Technology						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Piotr Sender				
	Teachers		dr inż. Piotr Sender				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	0.0	0.0	30
	E-learning hours included: 0.0						
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan	Participation in consultation hours	Self-study	SUM		
	Number of study hours	30	2.0	18.0	50		
Subject objectives	To acquaint the student with the basic issues of music. Reminder of the basics of musical notation and elements of a musical work. Observation of the sound wave produced with the use of various sound sources, ie musical instruments and computer software (eg Matlab, Audacity). Acquiring basic theoretical information enabling the recording and performance of a simple piece of music (or a melody line) using available software on the Internet. To acquaint students with the basics of musical improvisation (pentatonic, blues scale, reduced chords).						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K7_U71] is able to apply knowledge from humanistic, social, economic or legal sciences in order to solve problems		The student will acquire basic knowledge of distinguishing of musical instruments. Knowledge of the rules of notation and the basics of improvisation will allow to further develop musical skills.		[SU1] Assessment of task fulfillment [SU2] Assessment of ability to analyse information		
	[K7_K71] is able to explain the need to apply knowledge from humanistic, social, economic or legal sciences in order to function in a social environment		The student will be able to write and perform a simple piece of music by himself using the Matlab software and the piano keyboard.		[SK5] Assessment of ability to solve problems that arise in practice [SK2] Assessment of progress of work		
	[K7_W71] has general knowledge in humanistic, social, economic or legal sciences, including their fundamentals and applications		Acquiring basic skills related to the basics of musical notation. Knowledge of the basic elements of a musical work.		[SW1] Assessment of factual knowledge [SW2] Assessment of knowledge contained in presentation		

Subject contents	<p>Sound formation, basic elements of musical notation, musical rhythm, musical metre, agogics and dynamics, scale, scale, key, intervals, construction of major and minor scales, transposition.</p> <p>Notation of notes on the staff for selected fragments of the melodic line.</p> <p>Theoretical basics of playing keyboard, wind and string instruments.</p> <p>Sound waves. Production and observation of sound in Matlab software.</p> <p>Performance of a simple melodic line composed and recorded on a staff using computer software available on the Internet.</p>											
Prerequisites and co-requisites												
Assessment methods and criteria	<table border="1"> <thead> <tr> <th data-bbox="456 748 794 786">Subject passing criteria</th> <th data-bbox="799 748 1137 786">Passing threshold</th> <th data-bbox="1142 748 1481 786">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="456 792 794 819">preparation of the final study</td> <td data-bbox="799 792 1137 819">60.0%</td> <td data-bbox="1142 792 1481 819">100.0%</td> </tr> </tbody> </table>			Subject passing criteria	Passing threshold	Percentage of the final grade	preparation of the final study	60.0%	100.0%			
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<p>Example issues/ example questions/ tasks being completed</p>	<p>On your own or in a team, using the software available on the Internet, compose, save and present sample piece of music.</p> <p>Perform rhythmic accompaniment for selected passages of music (tap out the matching rhythm pattern).</p> <p>Characterize the elements of a musical work. List and write down sample musical scales on the staff.</p> <p>Discuss and present the intervals on the staff in the musical notation.</p> <p>Describe the basic principles of musical articulation.</p> <p>Describe the differences between major and minor scales.</p> <p>List examples of cross and flat scales.</p> <p>Write down some sample measures for different musical time signatures.</p> <p>Describe the basic elements of agogics in music.</p> <p>Describe the basic elements of dynamics in music.</p> <p>List and assign selected musical instruments to individual groups of instruments.</p> <p>Describe the ways in which sounds are produced on keyboard, wind and string instruments.</p>
<p>Work placement</p>	<p>Not applicable</p>