



Subject card

Subject name and code	Fundamentals of Music, PG_00060139						
Field of study	Civil Engineering, Environmental Engineering, Materials Engineering, Informatics, Mathematics, Transport, Management, Management, Materials Engineering, Informatics, Management, Economic Analytics, Economic Analytics, Space and Satellite Technologies, Automatic Control, Cybernetics and Robotics, Automatic Control, Cybernetics and Robotics, Green Technologies, Green Technologies, Coastal and Offshore Engineering, Medical and Mechanical Engineering, Mechatronics, Ocean Engineering, Mechanical Engineering, Materials Engineering, Space and Satellite Technologies, Coastal and Offshore Engineering, Ocean Engineering, Transport and Logistics, Ocean 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			e-learning		
Year of study	2	Language of instruction			Polish		
Semester of study	3	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: 30.0						
	Podstawy Muzyki - Moodle ID: 28658 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=28658						
Additional information: on line;							
https://teams.microsoft.com/l/meetup-join/19%3ameeting_MmVhZW50LjM4LWJmODAtOGZkMjE5NjcwNTJh%40thread.v2/0?context=%7b%22id%22%3a%2286760356-0022-486f-b793-a2d470bba5a5%22%2c%22oid%22%3a%22991ad120-6b7b-4f0e-9f60-975fa5c1cf77%22%7d							
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	
	Number of study hours	30		2.0		18.0	
SUM							50
Subject objectives	Acquainting the student with the basic issues of music. Reminder of the basics of musical notation and basic elements of a music. Observation of the sound wave produced by musical instruments and using computer software Matlab. Gaining basic theoretical information enabling the recording and performance of a simple music (or a melodic line) using the available software on the Internet, or on a selected musical instrument. Fundamentals of programming in the Matlab to generate and observe sound with various parameters. Basic using of Audacity software.						
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 be able to independently write and perform a simple piece of music.		[SU2] Assessment of ability to analyse information [SU1] Assessment of task fulfilment		
	[K7_W71] has general knowledge in humanistic, social, economic or legal sciences, including their fundamentals and applications		The basis of Music can be the development of social competencies, e.g. the ability to cooperate.		[SW1] Assessment of factual knowledge		
	[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		Gaining basic skills related to the basics of musical notation.		[SK2] Assessment of progress of work [SK1] Assessment of group work skills		

Subject contents	<p>Sound formation, basic elements of musical notation, musical rhythm, musical metre, agogics and dynamics, music scales, pentatonic scale, music keys, intervals, construction of major and minor scales, transposition. Notation of notes on the staff for selected fragments of the melodic line. Theoretical basics of playing keyboard, wind and string instruments. Sound waves. Production and observation of sound in Matlab software. Performance of a simple melodic line composed and recorded on a staff using computer software available on the Internet.</p>		
Prerequisites and co-requisites	no requirements		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	57 / 5 000 Wyniki tłumaczenia Tłumaczenie performance of a composed music or discussion of a presentation	60.0%	100.0%
Recommended reading	<p>Basic literature</p> <p>Franciszek Wesolowski "Principles of Music" PWM Kraków 1986 (ISBN 83-224-0250-3)</p> <p>Michael Philhofer "Music Theory for Dummies"</p>		
	Supplementary literature	https://sound.eti.pg.gda.pl/student/akmuz/01-PodstawyNotacji.pdf	
	eResources addresses	<p>Podstawowe https://sound.eti.pg.gda.pl/student/akmuz/01-PodstawyNotacji.pdf - lesson guide</p> <p>Uzupełniająca https://sound.eti.pg.gda.pl/student/akmuz/01-PodstawyNotacji.pdf - basic course guide</p>	
Example issues/ example questions/ tasks being completed	<p>Compose the melody line, discuss the rules (which were used to create the melody line), perform the created music.</p> <p>Make a presentation discussing an issue related to music that is interesting to you, the choice of topic should be justified and discussed.</p>		
Work placement	Not applicable		