



Subject card

Subject name and code	Apprenticeship NANO, PG_00052083						
Field of study	Nanotechnology						
Date of commencement of studies	October 2020		Academic year of realisation of subject		2023/2024		
Education level	first-cycle studies		Subject group		Optional subject group		
Mode of study	Full-time studies		Mode of delivery		at the university		
Year of study	4		Language of instruction		Polish		
Semester of study	7		ECTS credits		6.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Instytut Nanotechnologii i Inżynierii Materiałowej -> Faculty of Applied Physics and Mathematics						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Marek Augustyniak				
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	0.0	0.0	0.0	0
	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	0		10.0		150.0	160
Subject objectives	<p><i>The internship is aimed at experiencing the realities of work in companies and non-university institutions. The student has the opportunity to reflect on his/her own preferences and professional options, primarily by making a preliminary decision regarding one of the two main technical career paths: the scientific path or the engineering path.</i></p> <p><i>An important aspect is the negotiation of possible salary.</i></p>						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	K6_K05		He/she is able to present the effects of his work, convey information in a universally understandable way, communicate, independently assess and constructively evaluate the effects of other people's work.		[SK4] Assessment of communication skills, including language correctness		
	K6_U07		The student is able to analyze projects and his/her involvement in terms of earnings and profit for the company and society.		[SU2] Assessment of ability to analyse information		
	K6_K04		The student is able to cooperate, even in difficult situations (time pressure, uneven level of competences in the team, difficult relationship with the boss).		[SK1] Assessment of group work skills		

Subject contents	<p><i>The aim of the professional practice is to improve the technological and engineering skills acquired by the student during studies by comparing them with the realities of work on an industrial scale, in the conditions of a specific enterprise.</i></p> <p><i>Wherever possible, the apprenticeship/traineeship should include:</i></p> <ul style="list-style-type: none"><i>- learning about work organization in the production plant:</i><i>- determining the conditions for the location of the production plant,</i><i>- learning about the technologies used, the raw materials used, the software used</i><i>- getting acquainted with the organizational structure of the workplace</i> <p><i>It is important that the work undertaken involves solving real problems faced by the company as soon as possible and engaging in current projects.</i></p> <p><i>If possible, the practice/internship should include familiarizing the student with: - company work regulations, provisions on occupational health and safety and the protection of state and official secrets; - organizational structure of the plant; - information about products and marketing activities; - main assumptions of the quality management and environmental protection system; - main stages of production and technological departments.</i></p>											
Prerequisites and co-requisites	Strong motivation.											
Assessment methods and criteria	<table><tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr><tr><td>Report</td><td>100.0%</td><td>100.0%</td></tr></table>	Subject passing criteria	Passing threshold	Percentage of the final grade	Report	100.0%	100.0%					
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Recommended reading	<table><tr><td>Basic literature</td><td colspan="2">not applicable</td></tr><tr><td>Supplementary literature</td><td colspan="2">not applicable</td></tr><tr><td>eResources addresses</td><td colspan="2">Adresy na platformie eNauczanie:</td></tr></table>	Basic literature	not applicable		Supplementary literature	not applicable		eResources addresses	Adresy na platformie eNauczanie:			
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Example issues/ example questions/ tasks being completed	<p>1. <i>What was the course of the practice/internship?</i></p> <p>2. <i>Does the student now have a better understanding of his/her career strategy?</i></p> <p>3. <i>Does the intern recommend the internship to other future interns in the company?</i></p> <p>4. <i>Has remuneration been awarded?</i></p> <p>5. <i>Other notes and comments.</i></p>											
Work placement	Tautology: vocational training/internship involves vocational training/internship.											