

Subject card

Subject name and code	Regulations and standards in nuclear engineering, PG_00065889							
Field of study	Nuclear Engineering							
Date of commencement of studies	February 2025		Academic year of realisation of subject		2024/2025			
Education level	second-cycle studies		Subject group		Obligatory subject group in the field of study			
Mode of study	Full-time studies		Mode of delivery		at the university			
Year of study	1		Language of instruction			Polish		
Semester of study	1		ECTS credits			1.0		
Learning profile	general academic profile		Assessment form			assessment		
Conducting unit	Department of Electrical Power Engineering -> Faculty of Electrical and Control Engineering							
Name and surname	Subject supervisor	dr inż. Marcin Jaskólski						
of lecturer (lecturers)	Teachers	dr inż. Marcin Jaskólski						
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	:t	Seminar	SUM
of instruction	Number of study hours	15.0	0.0	0.0	0.0		0.0	15
	E-learning hours inclu			1				
Learning activity and number of study hours	Learning activity	Participation i classes include plan		Participation i consultation h	articipation in onsultation hours		udy	SUM
	Number of study hours	15		3.0				25
Subject objectives	The aim of the course for students is to acquire knowledge of key legal acts and regulations and standards relevant to nuclear energy.							
Learning outcomes	Course out	come	Sub	ject outcome			Method of ve	rification
	[K7_W04] recognize interprets selected is field of advanced de knowledge, particula scope of methods, at tools, algorithms and specific to Nuclear P Technologies taking the principles of safe radiological protection	ssues in the tailed rly in the echniques, I standards lower into account ety and	Interprets selected standards for nuclear energy, particularly regarding safety and radiological protection.			[SW1] Assessment of factual knowledge		
	[K7_W11] interprets social, economic, legal (including industrial and intellectual property laws), and other non-technical aspects of engineering activities, and includes them into engineering practice		Interprets the legal conditions for nuclear energy activities.			[SW1] Assessment of factual knowledge		
Subject contents	Lecture:1. International organizations in nuclear energy2. International law in the field of nuclear energy3. Legal documents regulating issues related to nuclear energy in the European Union4. Acts and regulations concerning nuclear energy in Poland (PEP, PPEJ, Atomic Law, BJiOR Strategy)5. IEEE standards in the field of safety and operation of nuclear power plants (selected issues)6. Review of the most important ASME standards in the field of nuclear energy7. Selected documents of the International Atomic Energy Agency (IAEA)							
Prerequisites and co-requisites								

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Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	Lecture test	60.0%	100.0%			
Recommended reading	Basic literature	Zieliński A.S. (red.) (2024), Elektrownie jądrowe w nowoczesnej gospodarce, Wydawnictwo Naukowe PWN				
	Supplementary literature	International Atomic Energy Agency, Managing the First Nuclear Power Plant Project IAEA-TECDOC-1555, Vienna, 2007.				
		International Atomic Energy Agency (IAEA), Vienna Convention on Civil Liability for Nuclear Damage, 2023, https://www.iaea.org/topics/nuclear-liability-conventions/vienna-convention-on-civil-liability-for-nuclear-damage				
		United Nations Office for Disarmament Affairs (UNODA), Treaty on the Non-Proliferation of Nuclear Weapons (NPT), 2023, https://www.iaea.org/topics/non-proliferation-treaty				
		International Atomic Energy Agency (IAEA), Convention on the Physical Protection of Nuclear Material (CPPNM) and its Amendment, 2023, https://www.iaea.org/publications/documents/conventions/convention-physical-protection-nuclear-material-and-its-amendment				
		International Atomic Energy Agency (IAEA), Convention on Nuclear Safety, 2023, https://www.iaea.org/topics/nuclear-safety-conventions/convention-nuclear-safety				
		International Atomic Energy Agency (IAEA), Joint Convention on the Safety of Spent Fuel Management and on the Safety of Radioactive Waste Management, 2023,				

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	1. What is the scope of responsibility of the President of the National Atomic Energy Agency?2. The most important legal documents in relation to nuclear energy and nuclear safety in the international arena.3. Key provisions of the law in force in the European Union4. The Atomic Law Act - Activities related to exposure requiring a permit.5. The Atomic Law Act - Activities related to exposure requiring notification in the scope of radiological protection6. The Atomic Law Act - Nuclear safety and radiological protection and protection of employees' health7. The Atomic Law Act - Selection of the location of a nuclear facility8. The Atomic Law Act - radioactive waste and spent nuclear fuel
Work placement	Not applicable

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