



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Nuclear law in the world [S2EJ1>PJwŚ]

Course

Field of study

Nuclear Power Engineering

Year/Semester

1/2

Area of study (specialization)

–

Profile of study

general academic

Level of study

second-cycle

Course offered in

Polish

Form of study

full-time

Requirements

elective

Number of hours

Lecture

30

Laboratory classes

0

Other

0

Tutorials

0

Projects/seminars

0

Number of credit points

2,00

Coordinators

dr inż. Radosław Szczerbowski

radoslaw.szczerbowski@put.poznan.pl

Lecturers

Prerequisites

Basic knowledge of nuclear physics and chemistry. Basic knowledge of radiological protection and issues related to protection against ionising radiation. Knowledge of the safety of nuclear facilities.

Course objective

To acquire the student's knowledge of nuclear law in force in selected countries. To familiarise the student with related legislation on nuclear law, nuclear safety and radiological protection in the world.

Course-related learning outcomes

Knowledge:

- 1 The student knows and understands the need for nuclear energy law.
- 2 The student has knowledge of energy law. The student knows the concept of energy law and is able to indicate the most important legal acts of nuclear energy law.
3. He/she has knowledge of the role of energy law in the security system of the state, including its impact on humans and the environment.

Skills:

1. Students will be able to evaluate changes in the energy sector in the context of changes in nuclear energy law.
2. Student is able to analyse the interrelationships related to nuclear law changes..

Social competences:

1. The student is aware of the importance of and understands the non-technical aspects and effects of power engineering, including nuclear power engineering, on the environment.
2. The student understands the necessity of systematic deepening and broadening of his/her knowledge and skills.

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Lectures

Credit in written form by the deadline given at the beginning of the semester. A list of questions is made available to students at the beginning of the semester. Student activity is assessed at each lecture. A minimum of 50% of the maximum number of points is required to pass the course.

Programme content

Introduction to Energy Law. Energy Law and Nuclear Law in selected countries in the World. International conventions and directives re: nuclear safety and radiological protection.

Course topics

Lectures

Introduction to energy law (the essence of the energetic use of nuclear energy, nuclear technologies, basic legal acts). Energy Law and Nuclear Law in selected countries in the World. International Atomic Energy Agency (role and international agreements). Euratom as a pillar of the EU (purpose of establishment, institutional shape and impact of EU regulations on national nuclear facilities). International conventions and directives on: nuclear safety and radiological protection (concept, authorization, obligations); nuclear facilities (concept, classification, location and implementation of investments); radioactive waste (classification, concepts of radioactive waste and spent nuclear fuel, transportation); radioactive waste repositories; issues of reprocessing of spent nuclear fuel; liability for nuclear damage.

Teaching methods

Lectures:

lectures in the form of multimedia presentations and problem-solving, supplemented by elements of brainstorming and discussion.

Bibliography

Basic:

1. Principles and Practice of International Nuclear Law, Kimberly Sexton Nick and Stephen G. Burns, Editors (<https://www.oecd-nea.org/>)
2. International Nuclear Law: History, Evolution and Outlook (<https://www.oecd-nea.org/>)
3. Ustawa z dnia 29 listopada 2000 r. Prawo atomowe (Dz. U. 2001 Nr 3 poz. 18) z późniejszymi zmianami
4. Biuletyn informacyjny Państwowej Agencji Atomistyki, Bezpieczeństwo jądrowe i ochrona radiologiczna, Prawo atomowe i akty wykonawcze. Część I, Warszawa, 2002, Nr 3-4 (51)

Additional:

1. Ustawa z dnia 10 kwietnia 1997 r. PRAWO ENERGETYCZNE.
2. Radosław Szczerbowski, redakcja naukowa/ Energetyka węglowa i jądrowa: wybrane aspekty, Poznań 2017
3. DYREKTYWA RADY 2009/7/EURATOM z dnia 25 czerwca 2009 r. ustanawiająca wspólnotowe ramy bezpieczeństwa jądrowego obiektów jądrowych.
4. DYREKTYWA RADY 2011/70/EURATOM z dnia 19 lipca 2011 r. ustanawiająca ramy wspólnotowe w zakresie odpowiedzialnego i bezpiecznego gospodarowania wypalonym paliwem jądrowym i odpadami promieniotwórczymi.

Breakdown of average student's workload

	Hours	ECTS
Total workload	55	2,00
Classes requiring direct contact with the teacher	30	1,00
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)	25	1,00