	f the module/subject	ooring		ode
Field of	ear Power Engin	leening	Profile of study	010315431010315644 Year /Semester
			(general academic, practical)	
Power Engineering			(brak)	2/3
Elective	path/specialty	I Power Engineering	Subject offered in: Polish	Course (compulsory, elective obligatory
Cycle of			Form of study (full-time,part-time)	obligatory
	Second-c	ycle studies	part-ti	me
No. of h	ours			No. of credits
Lectur	e: 10 Classes	s: - Laboratory: -	Project/seminars:	1
Status c	of the course in the study	program (Basic, major, other)	(university-wide, from another field	d)
		(brak)	(b	rak)
Educatio	on areas and fields of sci	ence and art		ECTS distribution (number and %)
technical sciences				1 100%
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Continuous evaluation in the classroom. Skill and competence by conducting discussions on current issues in the field of nuclear energy.

Credit on the basis of a written paper consisting of answers to 10 questions and 3 questions test problem with range of topics covering topics classes.

## **Course description**

The state of development of nuclear power in the world. Classification of nuclear reactors. Generation of nuclear power reactors. The basic types of nuclear reactors and their safety features. Construction, concept and basic technological systems of nuclear reactors, fuel elements and structure of the core. Operating parameters of the reactors. Equipment and auxiliary systems. Nuclear safety issues - the importance of nuclear safety and security of the entire nuclear energy. The development of the nuclear power industry.

## Basic bibliography:

- 1. Celiński Z., Strupczewski A., Podstawy energetyki jądrowej, WNT, 1984
- 2. Ackermann G., Eksploatacja elektrowni jądrowych, WNT
- 3. Paska J., Elektrownie jądrowe, Oficyna Wydawnicza Politechniki Warszawskiej, 1990
- 4. Celiński Z., Energetyka jądrowa. PWN. 1991
- 5. Kubowski J.: Nowoczesne elektrownie jądrowe. Warszawa: WNT 2010

## Additional bibliography:

- 1. Lech M., Kierunki rozwoju elektrowni jądrowych, Oficyna Wydawnicza Politechniki Wrocławskiej, 1997
- 2. Jezierski G., Energia jądrowa wczoraj i dziś, WNT, 2005

3. Hrynkiewicz A., Energia wyzwanie XXI wieku. Wydawnictwo Uniwersytetu Jagiellońskiego. 2002.

## Result of average student's workload

Activity	Time (working hours)	
1. participation in lectures	10	
2. exam preparation	10	
3. presence on the exam	3	
4. the consultation of lectures	3	
Student's wo	orkload	
Source of workload	hours	ECTS
Total workload	31	1
Contact hours	21	1
Practical activities	0	0