Z1-PU7	WYDANIE N1	Strona1 z 2

(*faculty stamp*)

COURSE DESCRIPTION

1. Course title: INNOVATIVE SYSTEMS FOR FOSSIL FUELS CONVERSION	**2. Course code**
3. Validity of course description: from 2013/2014	
4. Level of studies: ~~BA, BSc programme / MA,MSc programme lub 1st cycle~~ / 2nd cycle of higher education	
5.Mode of studies: intramural studies ~~/ extramural studies~~	
6. Field of study: POWER ENGINEERING (RIE)	(FACULTY SYMBOL)
7. Profile of studies: general academic	
8.Programme: Energy systems	
9. Semester:2	
10. Faculty teaching the course:Institute of Thermal Technology	
11. Course instructor:Dr Marcin Liszka	
12. Course classification:specialty subjects	
13. Course status: compulsory ~~/elective~~	
14. Language of instruction: English	
15. Pre-requisite qualifications:Thermodynamics, Heat Transfer, Basics of Power Plant Technology	
16. Course objectives:familiarize students with the subject as in the title of the lecture	
17. Description of learning outcomes:	

Nr	Learning outcomes description	Method of assessment	Teaching methods	Learning outcomes reference code
1.	Familiar with the construction and operation of innovative solid fuel power unit.	oral test	Lecture	K_W06 K_W10 K_W13
2.	Familiar with the construction and operation of innovative gas fuel power unit.	oral test	Lecture	K_W06 K_W10 K_W13
3.	Has knowledge of current issues relating to fossil fuel-fired power plants	oral test	Lecture	K_W06 K_W10 K_W13
4.				
5.				
6.				
7.				
8.				

18. Teaching modes and hours

15 h Lecture, 15h Project

19. Syllabus description:

Lecture:
Structure, parameters, and examples of applications of the innovative power units.
Project:
Develop an initial technical and economic feasibility study of the innovative power units.

20. Examination: No

21. Primary sources:

Recent studies available in the database of technical and scientific journals in the field of power units – e.g. Energy, Energy Conversion and Management, Fuels as well as commercial publications of leading manufacturers of power units equipment.

22. Secondary sources:

23. Totalworkload requiredto achieve learning outcomes

Lp.	Teaching mode:	Contact hours / Student workload hours
1	Lecture	15/15
2	Classes	/
3	Laboratory	/
4	Project	15/15
5	BA/ MA Seminar	/
6	Other	/
	Total number of hours	30/30

24. Total hours: 60

25. Number of ECTS credits: 2

26. Number of ECTS credits allocated for contact hours: 1

27. Number of ECTS credits allocated for in-practice hours (laboratory classes, projects): 1

26. Comments:

Approved:

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(date,Instructor's signature) (*date ,the Director of theFaculty Unitsignature)*