SD UP LUBLIN 2023/2024	**SD_028**
Nazwa modułu *Course Title*	PhD Seminar VIII
Język wykładowy *Language of lecture*	English
Rodzaj modułu kształcenia *Type of course*	Obligatory
Rok kształcenia w Szkole Doktorskiej *Year of study*	**IV**
Semestr kształcenia w Szkole Doktorskiej *Semester of study*	**VIII**
Nazwisko i imię osoby odpowiedzialnej – stopień naukowy *Name of lecturer – academic degree*	dr hab. Zbigniew Kobus, prof. UP
Osoby współprowadzące *Co-lecturer*	
Jednostka oferująca przedmiot/dyscyplina *Department/ scientific discipline*	Department of Technology Fundamentals
Cel modułu *Aim of the course*	The aim of the course is to familiarize Ph.D. students with the main research trends in the discipline of mechanical engineering. Ph.D. students will gain knowledge of national and European research centres in the discipline, learn about innovative technological solutions used in mechanical engineering, as well as get familiar with the new trends in the development of this discipline. In terms of research methodology, doctoral students will be familiarized with the principles of preparing doctoral dissertations in the form of a monograph and the specificity of preparing this type of work. As part of the seminar, it is also planned to conduct an on-line workshop with doctoral students from domestic research centres, during which PhD students will present the first-person narrative summary of their Ph.D. dissertation in English.
Efekty kształcenia *Odniesienie do efektu kształcenia może wystąpić tylko jeden raz. Max 254 znaki (ze spacjami) na efekt.* *Learning outcomes*	Wiedza: *Knowledge:*
	W1.The Ph.D. student knows the main research and development trends in the discipline of mechanical engineering
	W2.The Ph.D. student has knowledge of innovative technological solutions used in the discipline
	W3.The Ph.D. student has knowledge on the principles of preparing doctoral dissertations in the form of a monograph
	Umiejętności: *Practical skills:*
	U1. The Ph.D. student can identify future research trends in the discipline
	U2. The Ph.D. student can prepare and present the summary of Ph.D. dissertation
	U3. The Ph.D. student can prepare and present an abstract for a doctoral dissertation
	Kompetencje społeczne: *Social skills:*
	K1. The Ph.D. student critically evaluates the achievements of a given discipline
	K2. The Ph.D. student is ready for interpersonal research relations
Wymagania wstępne i dodatkowe *Prerequisites and additional requirements*	

Treści modułu kształcenia – zwarty opis ok. 100 słów. *Course contents*	The first part of the seminar covers the issues related to the scope of research in the field of environmental engineering in Poland and abroad, presentation of the most important scientific research undertaken in the discipline, innovative technological solutions, opportunities for cooperation with other fields and disciplines of science and future directions of environmental engineering development. The second part of the seminar focuses on issues related to the principles of preparing doctoral dissertations in a form of a monograph and a set of publications, the specificity of preparing this type of work, as well as the preparation and presentation of the summary of Ph.D. dissertation.		
Wykaz literatury podstawowej i uzupełniającej *References*	Metodologia pracy naukowej, Jarosław Zieliński, Wydawnictwo: ASPRA, 2012 Technika pisania i prezentowania przyrodniczych prac naukowych, January Weiner, PWN, 2018 Jak pisać i redagować. Poradnik redaktora, Opracowanie zbiorowe, PWN, 2009 Podręcznik pisania prac, Ewa i Janusz Bielcowie, Wingert, 2007		
Planowaneformy/ działania/ metodydydaktyczne *Teaching methods*	Lecture, multimedia presentation, discussion, research task. Classes may be conducted using distance learning methods and techniques.		
Sposoby weryfikacji oraz formy dokumentowania osiągniętych efektów kształcenia *Assessment methods*	Activity during the workshop conducted with doctoral students from national research centres. Development and presentation of the summary of the Ph.D. dissertation (in Polish and English) in the form of a multimedia presentation.		
Elementy i wagi mające wpływ na ocenę końcową *Elements influencing the final grade*	Attendance; Active participation in the discussion; Preparation of the presentation		
Szczegółowy program wykładów I ćwiczeń z podaniem godzin *Detailed program of lectures and classes*	**Ćwiczenia** Classes 15:		
	1.	Main research trends in the discipline of mechanical engineering	2
	2.	Innovative technological solutions used in the discipline	1
	3.	Development trends in disciplines of mechanical engineering	2
	4.	Possibilities of cooperation with other science disciplines, including chemical engineering or food technology – lecture by a scientist from outside the University	1
	5.	Preparation of the summary of the Ph.D. dissertation in Polish	2
	6.	Presentation of the summary of the Ph.D. dissertation in Polish during the seminar	2
	7.	Preparation of the abstract of the Ph.D. dissertation in English	1
	8.	Presentation of the summary of the Ph.D. dissertation in English during the remote seminar with PhD students from national research centres	4
Stopień osiągania efektów kierunkowych: *Learning outcomes:*	*Kierunkowe efekty kształcenia* *Learning outcomes* SD_W01 SD_W02 SD_U01 SD_U05 SD_U07 SD_KO1 SD_KO5		

SD UP LUBLIN 2023/2024	**SD_028**
Nazwa modułu *Course Title*	PhD Seminar VII
Język wykładowy *Language of lecture*	English
Rodzaj modułu kształcenia *Type of course*	Obligatory
Rok kształcenia w Szkole Doktorskiej *Year of study*	**IV**
Semestr kształcenia w Szkole Doktorskiej *Semester of study*	**VIII**
Nazwisko i imię osoby odpowiedzialnej – stopień naukowy *Name of lecturer –academic degree*	dr hab. Zbigniew Kobus, prof. UP
Jednostka oferująca moduł/dyscyplina *Department/ scientific discipline*	Department of Technology Fundamentals
Cel modułu *Aim of the course*	The aim of the course is to familiarize Ph.D. students with the main research trends in the discipline of mechanical engineering. Ph.D. students will gain knowledge of national and European research centres in the discipline, learn about innovative technological solutions used in mechanical engineering, as well as get familiar with the new trends in the development of this discipline. In terms of research methodology, doctoral students will be familiarized with the principles of preparing doctoral dissertations in the form of a monograph and the specificity of preparing this type of work. As part of the seminar, it is also planned to conduct an on-line workshop with doctoral students from domestic research centres, during which PhD students will present the first-person narrative summary of their Ph.D. dissertation in English.
Treści modułu kształcenia – zwarty opis ok. 100 słów. *Course contents*	The first part of the seminar covers the issues related to the principles of modern classification of scientific fields and disciplines, the scope of research in the field of environmental engineering in Poland and abroad, presentation of the most important scientific research undertaken in the discipline, innovative technological solutions, opportunities for cooperation with other fields and disciplines of science and future directions of environmental engineering development. The second part of the seminar focuses on issues related to the principles of preparing doctoral dissertations in a form of a a monograph and the specificity of preparing this type of work, as well as the preparation and presentation of the summary of Ph.D. dissertation in the form of a multimedia presentation.
Wykaz literatury podstawowej i uzupełniającej *References*	METODOLOGIA PRACY NAUKOWEJ, JAROSŁAW ZIELIŃSKI, Wydawnictwo: ASPRA, 2012 Technika pisania i prezentowania przyrodniczych prac naukowych, January Weiner, PWN, 2018 Jak pisać i redagować. Poradnik redaktora, Opracowanie zbiorowe, PWN, 2009 Podręcznik pisania prac, Ewa i Janusz Bielcowie, Wingert, 2007
Planowane formy/działania/metody dydaktyczne *Teaching methods*	Lecture, multimedia presentation, discussion, research task. Classes may be conducted using distance learning methods and techniques.