Course title:	Seed technology
Course title in Polish:	Technologia nasienna
Course for discipline:	Agriculture and horticulture, Biology

Semester:	5	**Status of course:**	faculty	**Language:**	english
Academic year:		**Catalog number:**			

Coordinator of course:	Aleksandra Orzeszko-Rywka
Lecturer od course:	Aleksandra Orzeszko-Rywka
Executing unit:	Department of Plant Physiology, Institute of Biology
Ordering unit:	Doctoral School SGGW
Assumptions, goals and description of the course:	PhD student learns the importance of high-quality seed material for agricultural practice and agricultural progress. Learns about the principles and methods of improving the quality of seed material during the growing season of parent plants and after harvest. He learns the course of individual seed rqua;ity improvement methods and the principles of selecting methods for specific growing conditions and recipient preferences. Identifies the advantages and disadvantages of individual methods and their impact on the quality of seeds. Gets acquainted with the purposes and methods of seeds storing.
Didactic form, number of hours:	Seminar, 10 hours
Teaching methods:	Presentations, lecture preparation, discussion, didactic films.
Limit of people in the group:	15

Learning outcomes

KNOWLEDGE - the graduate knows and understands:	**SKILLS - the graduate is able to:**	**COMPETENCES - the graduate is ready to:**
To the extent enabling to revise the existing pradigms in the field/discipline - the world achievments, gathering theoretical background as well as general and selected detailed issues	Carry out critical assessment of the scientific research findings and expert activities and their contribution to the knowledge development in the field/discipline	Critically evaluate the achievments in the field/discipline represented
Major general development trends in the field/discipline		Recognise knowledge in solving cognitive and practical problems characteristic for the area of research (field/discipline) and in an interdisciplinary aspect
		Support the ethos of scientific circles and conduct independent research

The method of verification of learning outcomes:	Presentation on chosen subject based on literature, participation in discussion.
Form of documentation of achieved learning outcomes:	Presentations.
Elements and weights of the final grade:	Presentation - 80%, discussion - 20%
Place of the course:	Seminar room

Basic and supplementary literature

1. Duczmal K., Tucholska H. Nasiennictwo Tom 1 i 2. PWRiL Poznań 2000
2. Rochalska M., Orzeszko-Rywka A. Przewodnik do ćwiczeń z nasiennictwa. Wydawnictwo SGGW 2004
3. Michalik B. Hodowla roślin z elementami genetyki i biotechnologii.PWRiL 2009 and current papers on a subject.

Comments:	None

Estimated number of hours of work of the doctoral student necessary to achieve the assumed learning outcomes:	30

Leraning outcomes reference to the second degree characteristics of the National Qualification Framework (level 8) covering doctoral competences:

Symbol:	**Learning outcomes:**	**8 level NQF**
SD1_KW01	To the extent enabling to revise the existing pradigms in the field/discipline - the world achievments, gathering theoretical background as well as general and selected detailed issues	P8S_WG
SD1_KW02	Major general development trends in the field/discipline	P8S_WG
SD1_KU05	Carry out critical assessment of the scientific research findings and expert activities and their contribution to the knowledge development in the field/discipline	P8S_UW
SD1_KK01	Critically evaluate the achievments in the field/discipline represented	P8S_KK
SD1_KK03	Recognise knowledge in solving cognitive and practical problems characteristic for the area of research (field/discipline) and in an interdisciplinary aspect	P8S_KK
SD1_KK08	Support the ethos of scientific circles and conduct independent research	P8S_KR