SYLLABUS

Name of the course (as specified in the approved curriculum) **Extension in seed industry**			Number of ECTS Credits **4**
Name of the course in Polish **Doradztwo w nasiennictwie**			
Unit providing the course (Department/Institute) **Department of Phytopathology, Seed Science and Technology**			
Course leader **Prof. Roman Hołubowicz**			
Field of study **Horticulture: Seed Science and Technology**	Level **II**	Semester **4**	

TYPE OF CLASSES (course load)	
- Lectures	15
- Practical classes	5
- Outdoor classes	10
- Contact hours	30
- Self-study	40
Total number of hours	100

OBJECTIVE OF THE COURSE

Teaching students about advising in the seed sector. Showing modern methods of seed company extension.

TEACHING METHODS

Lectures, teaching movies, classes, seed company visit

	Course learning outcomes	The reference to field of study outcomes
Knowledge	A graduate: O1. knows and understands advanced methods, techniques and mechanisms allowing to use and form potential of the nature in order to improve quality of human's life O2. knows and understands in the profound degree principles of integrated and organic horticultural production O3. knows and understands principles of creating and developing of individual enterprising	H2_K05 H2_K09 H2_K11
Skills	A graduate: O4. can find, analyse and creatively use needed information received from different sources concerning horticultural plant breeding, seed production and technology O5. can effectively work individually and in a team, taking in it different roles O6. can properly describe priorities to carry out tasks and lead a team work	H2_S01 H2_S11 H2_S12
Social skills	A graduate: O7. is ready critically evaluate information coming from different sources concerning horticultural plant breeding, seed science and technology O8. is ready initiate and organize activities towards limiting the environmental risk and predict the effects of horticultural production on the state of the environment O9. is ready think and act creatively and enterprisingly	H2_C01 H2_C03 H2_C05

Methods of evaluation of outcomes achievement Written exam, graded assignment	Symbols of course learning outcomes O1, O2, O3, O4, O5, O6, O7, O8, O9

TEACHING CONTENT

Lectures: Basic definitions and terms. History. Organization. Seed production in the world and in Poland. Methods of advisors' working. Theoretical bases of learning. Specifics of an advisor's work in extension. Preparing extension programmes. Ethics in extension. What will be the future of extension work?

Classes: Learning about basic forms and methods of extension work in the seed companies in the world. Analysing and processing data in extension. Transfer of the information from different sources. Visiting extension centres working with seeds.

The course completion criteria and methods Passing an exam and assignments	Percent of a final grade 70% - exam 30 % - classes

RECOMMENDED LITERATURE

Roling N.1990. Extension Science. Information Systems in Agricultural Development. Cambridge Univ. Press., Cambridge. Second Edition.

Hołubowicz R. 2010. New methods to improve teaching effects of extension in agricultural and horticultural seed sector. Proc. of “Problems of Quality Management of the Higher Professional Training in the Context of Modern Realities. Irkutsk, Russia, Dec. 3, 2009, 30-35.

Hołubowicz R. 2010. Specifics of extension works in seed industry. Proc. of the second intern. theor. and practical conference “Problems of Quality Management of the Higher Professional Training in the Context of Modern Realities.” Irkutsk, Russia, Dec. 1, 2010, 26-29.