

SYLLABUS

Name of the course (as specified in the approved curriculum) Sowing material production		Number of ECTS Credits 6
Name of the course in Polish Produkcja materiału siewnego		
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 1
TYPE OF CLASSES (course load)		
- Lectures	25	
- Practical classes	15	
- Performing of projects	20	
- Contact hours	35	
- Self-study	55	
Total number of hours		150
OBJECTIVE OF THE COURSE		
Teaching students about organization and functions of the seed sector in Poland. Showing modern methods of seeds production and their improvement.		
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 in the profound degree selected facts, objects and phenomena and concerning them research methods and theories explaining complex relationships amongst them, resulting in advanced knowledge concerning plant breeding, seed science and technology proper for the studying direction of Horticulture, O2. knows and understands principles of organization and management of plant breeding and seed production company, O3. knows and understands terms and principles concerning protection of industry property and	H2_K01 H2_K04 H2_K10
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 independently, and all aspects, analyse economical phenomena concerning horticultural plants production O6. can use English on the level B2+ in the European System of Language Education Description in the area of specific terminology concerning Horticulture	H2_S01 H2_S05 H2_S10
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 get directed and profound knowledge and skills as well as understand need to develop profession's achievements, O9. is ready take responsibility for quality of horticultural production.	H2_C01 H2_C06 H2_C07
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 terms. History. Legal bases. Organization in the world and in Poland. Quality assignment – morphology and anatomy of seeds. Drying and cleaning seeds. Seed quality evaluation in the field and laboratory. Agronomic bases of seed production. Seed production of selected agricultural and horticultural crops. Importance of natural factors in seed production. Principles of seed trade and marketing. Classes: Seed stalks morphology. Recognition of weeds seeds. Seed production of selected ornamental plants. Seed processing. Non-sowing seeds usage.		

The course completion criteria and methods

Passing an exam and assignments

Percent of a final
grade
70% - exam
30 % - classes**RECOMMENDED LITERATURE**

McDonald M.B., Copeland L. 1997. Seed Production. Principles and Practices. Chapman and Hall, Minneapolis.

Basra A.S. 2000. Hybrid Seed Production in Vegetables. Rationale and Selection in Selected Crops. Food Products Press, New York.

Vanangamudi K., Kalaivani S., Vanagamudi M., Sasthri G., Selvakumari A., Sromathi P. 2010. Seed Quality Enhancement. Principles and Practices. Scientific Publ. (India).