

SYLLABUS OF PhD Studies
at the Institute Agrophysics, Polish Academy of Sciences
2016-2020

The syllabus of Doctoral Studies provides for the compulsory lectures in the major field of – agronomy/agrophysics and elective classes in the chosen subjects implemented at the Institute. The syllabus reflects the latest advancements in research, whereas tuition aims to develop independence of a young researcher and his dedication to the dissemination of science and knowledge.

The syllabus complies with the requirements in terms of the compulsory tuition load for doctoral studies – 45 ECTS credits, with the specification of the load – the number of hours of instruction, manner of granting credits and assigned ECTS credits. The syllabus provides for 30 credits for the compulsory classes, 5 credits for elective courses and 10 credits for the acquisition of social skills in the field of scientific research, experimental development and the role of a researcher in society.

Classes	number of hours	ECTS	Examination/Credit
Compulsory:			
In the major discipline of agronomy/agrophysics			
Soil Environment Management	15	4	E
Tillage and Plant Cultivation	15	4	E
Applied Physics	15	4	E
Extending knowledge			
Laboratory methods of environmental and food analysis	30	6	E
Methods of statistical analysis of experimental data	30	4	E
English	60	3	E
Doctoral Seminar – Supervisors/Tutors (Each doctoral student at least 1 hour per semester)	48	5	Credit
Total	213	30	
Electives*)			
Elective lectures as per the list in the Curriculum	15	5	E
Social skills			
International annual " BioPhys " workshop for young researchers, alternately in Lublin, Prague, Nitra, Gödöllő	-	2	Credit
„ Piknik naukowy ” [<i>Science Picnic</i>] by Radio BIS and the Copernicus Science Centre in Warsaw	-	2	Credit
„ Lubelski Festiwal Nauki ” [<i>Lublin Science Festival</i>] – attended in the first year, preparing the show in the second year	-	2	Credit
Seminars and nationwide workshops along with other entities (i.a. the Warsaw University of Life Science)	-	2	Credit
Participation in the conduct of classes under PhD Studies	-	2	Credit
Total		10	
Ph.D. Conferment Procedure			
Commencement of Ph.D. Conferment Procedure – the third year of Doctoral Studies			
Total	228	45	

*) A set of elective courses is updated for each academic year by the Director of the Institute, at the request of the Deputy Director for Scientific Affairs, along with the determination of the number of teaching hours and the number of ECTS credits and manner of obtaining a credit.

Elective courses are conducted with attendance of not less than 3 persons.

The Doctoral Studies syllabus is implemented over eight semesters, according to the schedule shown below.

Curriculum of PhD Studies at the Institute of Agrophysics, Polish Academy of Science applicable from the academic year 2016/2020

Classes	number of hours	ECTS	first year number of hours	second year number of hours	third year number of hours	fourth year number of hours	form of obtaining credit
Compulsory:							
in the major discipline of agronomy/agrophysics							
Soil Environment Management	15	4	15				examination
Tillage and Plant Cultivation	15	4	15				examination
Applied Physics	15	4	15				examination
Extending knowledge							
Laboratory methods of environmental and food analysis	30	6		30			examination
Methods of statistical analysis of experimental data	30	4		30			examination
English	60	3	30	30			examination
Doctoral Seminars *)	48	5	30	30	30	30	credit
Total	213	30	105	120	30	30	
Electives:							
Microbiology of environment – Magdalena Frąc, <i>PhD, DSc</i>	5	2	5				examination
Structure and mechanics evaluation of plant biomaterials.– Artur Zdunek <i>PhD, DSc</i> , Associate Professor of the Institute of Agrophysics, PAS	15	3			10		examination
Biogeochemical processes in the environment – Małgorzata Brzezińska, <i>PhD, DSc</i> , Associate Professor of the Institute of Agrophysics, PAS	5	2		5			examination
Agrophysical metrology – Professor Wojciech Skierucha, <i>PhD, DSc</i> , Agnieszka Szyplowska Ph.D.	10	3		10			examination

Charge and surface properties of solids and accompanied effects. Measurements and applications for soil and plant materials – Professor Grzegorz Józefaciuk, <i>PhD, DSc</i>	5	2			5		examination
Total requirements for credit	15	5					
Social skills:							
"BioPhys" workshops		2		+	+		credit
„Piknik naukowy” *)		2	+	+			credit
„Lubelski Festiwal Nauki” *)		2	+	+			credit
Seminars and nationwide workshops *)		2	+	+	+	+	credit
Participation in the conduct of classes under Doctoral Studies *)		2			+	+	credit
Total		10					

*) The classes are attended by a doctoral student along with their research supervisor.