

Study Program of Agricultural Science Doctoral

Visi

Excellent and globally competitive doctoral program in education, research and development of science and technology in agriculture, especially in suboptimal land agro-ecosystems

Misi

1. Exploring and developing science and technology as well as practices in agriculture on sub-optimal land.
2. Organizing doctoral education that is reliable and competitive in developing theories and publications at the national and international levels,
3. Carry out research activities in the field of agriculture on quality sub-optimal land at the national and international levels,
4. Establish cooperation in the field of research and development in the field of agricultural science with other universities, government and private, both at home and abroad.

Students can graduate if they have taken 42 semester credit units

The Doctoral Program (S3) in Agricultural Sciences, Faculty of Agriculture, University of Sriwijaya has seven main fields of study, namely:

1. Agronomy
2. Agricultural Land Management
3. Pests and Plant Diseases
4. Agribusiness
5. Agricultural Industry Technology
6. Animal Science
7. Fisheries Science

Courses can be taken in odd and even semesters and the courses that must be taken are

No	Kode	Mata Kuliah	Sks
1	PIP 7001	Science phylosophy	3
2	PIP 7002	Strategy and Management of Wetland Agroecosystems	3
3	PIP 7003	Ethics and Methodology in Scientific Research and Publications	3
4	PIP 7004	Independent Structured Lectures	3
5	PIP 8001	Writing Scientific Papers I	6

6	PIP 8002	International academic presentations	4
7		Elective courses (at least 3 courses)	8
8	PIP 9001	Dissertation and Final Examination	12
TOTAL			42 sks

Note: to carry out the dissertation and final exam, you must first complete the examination of doctor qualification, academic presentations in the form of proposals, academic presentations in the form of research progress and academic presentations in the form of research results which do not have credits. This activity is expected to monitor the quality of the doctorate produced.

Selected subjects of each main fields of study are as following:

1. Agronomy

Elective courses				
No	Kode	Courses	SKS	Semester
1	PIP7005	Advanced Crop Production Management	3 (3-0)	Odd/even
2	PIP7006	Organic Farming	3 (2-1)	Odd/even
3	PIP7007	Environmental Stress Physiology	3 (3-0)	Odd/even
4	PIP7008	Seed Production and Storage	3 (3-0)	Odd/even
5	PIP7009	Capita Selecta Weed Science	3 (3-0)	Odd/even
6	PIP 7010	Capita Selecta Plant Ecology-Physiology	3 (3-0)	Odd/even
TOTAL			18 SKS	Odd/even

2. Agricultural Land Management

Elective courses				
No	Kode	Couses	SKS	Semester
1	PIP7011	Soil, Water, and Plants Realtionship	3 (3-0)	Odd/even
2	PIP7012	Watershed Management Strategy	2 (2-0)	Odd/even
3	PIP7013	Post Burned Land Reclamation	2 (2-0)	Odd/even
4	PIP7014	Organic Matter Management	2 (2-0)	Odd/even
5	PIP7015	Peatland Management	3 (3-0)	Odd/even
6	PIP7016	Soil Bioremediion	2 (2-0)	Odd/even
7	PIP7017	Acid sulfata soil Management	3 (3-0)	Odd/even
TOTAL			17 SKS	

3. Pests and Plant Diseases

Entomology Sub-field Elective Course

Elective Courses				
No	Kode	Courses	SKS	Semester

1	PIP7018	Insect Physiology	3 (2-1)	Odd/even
2	PIP7019	Population Ecology	3 (2-1)	Odd/even
3	PIP7020	Insect Biochemistry	3 (2-1)	Odd/even
4	PIP7021	Plant Resistance to Plant Insects	3 (2-1)	Odd/even
TOTAL			12 SKS	

Phytopathology Sub-field Elective Course

Mata Kuliah Pilihan				
No	Kode	Courses	SKS	Semester
1	PIP7022	Advanced Plant Pathogens	3 (2-1)	Odd/even
2	PIP7023	Physiology of Plant Diseases	3 (2-1)	Odd/even
3	PIP7024	Epidemiology of Plant Diseases	3 (2-1)	Odd/even
4	PIP7025	Plant Resistance To Pathogens	3 (2-1)	Odd/even
TOTAL			12 SKS	

Elective Course in the Field of Plant Pests and Diseases

Elective Courses				
No	Kode	Courses	SKS	Semester
1	PIP7026	Advanced Plant Nematology	3 (2-1)	Odd/even
2	PIP7027	Insect Pathology	3 (2-1)	Odd/even
3	PIP7028	Utilization of Materials and Biological Agents	3 (2-1)	Odd/even
4	PIP7029	Pesticide Utilization and Management	3 (2-1)	Odd/even
5	PIP7030	Biology and Taxonomy of Entomophage Insects	3 (2-1)	Odd/even
TOTAL			15 SKS	

4. Agribusiness

Elective Courses				
No	Kode	Courses	SKS	Semester
1	PIP7031	Advanced Econometrics	2 (2-0)	Odd/even
2	PIP7032	Advanced Agricultural Entrepreneurship	3 (3-0)	Odd/even
3	PIP7033	Advanced Microeconomics	2 (2-0)	Odd/even
4	PIP7034	Advanced Macroeconomics	2 (2-0)	Odd/even
5	PIP7035	Agribusiness Systems Advanced	2(2-0)	Odd/even
6	PIP7036	Agribusiness Economics Advanced	3(3-0)	Odd/even
7	PIP7037	Agribusiness Financial Management	2 (2-0)	Odd/even
8	PIP7038	Advanced Agribusiness Supply Chain Management	2 (2-0)	Odd/even

TOTAL	18 SKS
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5. Agricultural Industry Technology

Elective Course in Sub-Sector of Agricultural Product Technology Expertise

Elective Courses				
No	Kode	Courses	SKS	Semester
1	PIP7039	Interaction and Mechanism of Components of Agricultural Products	3 (3-0)	Odd/even
2	PIP7040	Agricultural science and technology Agricultural Products	3 (3-0)	Odd/even
3	PIP7041	Management Technology Innovation	3 (3-0)	Odd/even
4	PIP7004	Independent Structured Lectures	3 (3-0)	Odd/even
		Total	12 SKS	

Elective Courses in the Sub-Sector of Agricultural Engineering Expertise

Mata Kuliah Pilihan				
No	Kode	Mata Kuliah	SKS	Semester
1	PIP7042	Physical and Thermal Properties of Agricultural Products	3 (2-1)	Odd/even
2	PIP7043	Agricultural Equipment and Machinery	3 (2-1)	Odd/even
3	PIP7044	Food Management Engineering	3 (2-1)	Odd/even
4	PIP7045	Soil and Water Conservation Engineering	3 (2-1)	Odd/even
5	PIP7046	Measurement of Electro-Optics, Imagery, Magnetic Properties of Agricultural Products	3 (2-1)	Odd/even
6	PIP7047	Simulation Models	3 (2-1)	Odd/even
TOTAL			18 SKS	

6. Animal Science

No	Kode	Courses	SKS	Semester
1	PIP7048	Technology and management of livestock production	2 (2-0)	Odd/even
2	PIP7049	Feed Industry System	2 (2-0)	Odd/even
3	PIP7050	Technology management of yield management and livestock by-products	3 (2-1)	Odd/even
4	PIP7051	Pasture management on marginal land	2 (2-0)	Odd/even
5	PIP7052	Reproductive technology and livestock breeding	3 (2-1)	Odd/even
6	PIP7053	Functional feed development	3 (2-1)	Odd/even
7	PIP7054	Management of pasture and livestock grazing	3 (2-1)	Odd/even
		Total	18 SKS	

7. Fisheries Science

Elective Course in Fisheries Science				
No	Kode	Courses	SKS	Semester
1	PIP7055	Advanced Aquaculture Technology and Management	3 (2-1)	Odd/even
2	PIP7056	Aquaculture Physiotoxicology	3 (2-1)	Odd/even
3	PIP7057	Evaluation of Aquaculture Production	3 (2-1)	Odd/even
4	PIP7058	Swamp Fisheries Resource Management	3 (2-1)	Odd/even
5	PIP7059	Advanced Reproductive Physiology of Fish	3 (2-1)	Odd/even
TOTAL			15 SKS	
Elective Courses in Fish Product Technology				
No	Kode	Mata Kuliah	SKS	Semester
1	PIP7060	Nutraceuticals and Pharmaceuticals of Fishery Products	3 (2-1)	Odd/even
2	PIP7061	Structure and Functionality of Fishery Products	3 (2-1)	Odd/even
3	PIP7062	Preservation and Management of Advanced Fishery Products	3 (2-1)	Odd/even
4	PIP7063	Fisheries Waste Management and Management	3 (2-1)	Odd/even
5	PIP7064	Advanced Fisheries Food Safety	3 (2-1)	Odd/even
TOTAL			15 SKS	