

Profil lulusan / Program Learning Outcomes (PLO)

PLO	Deskripsi
PLO-1 Practitioner	Lulusan menjadi petani, praktisi industri, enterprenuer, konsultan, penyuluh yang mampu menerapkan IPTEKS secara holistik dibidang pertanian tropika lembab. <i>Graduates become farmers, industrial practitioners, entrepreneurs, consultants, and extension workers who are able to implement science and technology holistically in the field of humid tropical agriculture.</i>
PLO-2 Academics	Lulusan menjadi calon pranata laboratorium, laboran, calon guru SLTA, ASN, dan calon mahasiswa magister menguasai konsep teoritis dan implementasinya dibidang pertanian tropika lembab. <i>Graduates become prospective laboratory officers, laboratory assistants, prospective high school teachers, ASN, and prospective master students who master theoretical concepts and their implementation in the field of humid tropical agriculture.</i>
PLO-3 Researcher	Lulusan menjadi peneliti di lembaga pemerintah, dan swasta yang mampu berfikir analitik dalam mengidentifikasi dan merumuskan masalah serta mencari solusi berbasis keilmuan pertanian. <i>Graduates become researchers in government and private institutions who can think analytically in identifying and formulating problems and finding solutions based on agricultural science.</i>

Capaian Pembelajaran / Description of Intended learning Outcomes (ILO) on the Bachelor Program of Agroecotechnology (BPA)

ILO	Description
ILO1	Bertakwa kepada Tuhan Yang Maha Esa, menjunjung tinggi nilai kemanusiaan, agama, moral, norma dan etika akademik, serta bertanggung jawab terhadap pengetahuan dan penerapan teknologi yang dimiliki. <i>Have faith in God Almighty, uphold human values, religion, morals, academic norms and ethics, and be responsible for the knowledge and application of technology.</i>
ILO2	Menguasai IPTEKS dalam Bidang Pertanian Tropika lembab yang berkelanjutan <i>Mastering science and technology in the field of sustainable humid tropical agriculture</i>
ILO3	Menguasai metodologi penelitian sehingga mampu beradaptasi terhadap situasi yang dihadapi dalam penyelesaian masalah di Bidang Pertanian Tropika Lembab secara prosedural dan etika keilmuan. <i>Mastering research methodology and adapting to situations faced in solving problems in the Humid Tropical Agriculture Sector procedurally and scientifically.</i>
ILO4	Mampu menerapkan pemikiran logis, kritis, sistematis, dan inovatif dalam konteks pengembangan dan implementasi IPTEKS dalam menyelesaikan permasalahan pertanian tropika lembab <i>Able to implement logical, critical, systematic, and innovative thinking in the context of developing and implementing science and technology to solve humid tropical agricultural problems.</i>
ILO5	Mampu menunjukkan kinerja mandiri, bermutu, dan terukur serta mampu bertanggungjawab atas pencapaian hasil kerja kelompok dan melakukan

	supervisi dan evaluasi terhadap penyelesaian pekerjaan. <i>Able to demonstrate independent, quality, and measurable performance and to be responsible for the achievement of group work results and supervise and evaluate work completion.</i>
ILO6	Mampu memelihara dan mengembangkan jaringan kerja dengan pembimbing, sejawat, mitra di dalam dan di luar Lembaga. <i>Able to maintain and develop working networks with supervisors, colleagues, and partners inside and outside the institution.</i>
ILO7	Mampu merencanakan, melaksanakan, mengevaluasi dan berinovasi dalam mengembangkan sistem produksi dan mampu memberikan solusi permasalahan bidang pertanian berkelanjutan. <i>Able to plan, implement, evaluate, and innovate in developing production systems and able to provide solutions to the problems in the field of sustainable agriculture.</i>
ILO8	Mampu mengaplikasikan teknologi <i>Internet of Things</i> (IoT), dan penguasaan Bahasa Asing di bidang pertanian. <i>Able to apply Internet of Things (IoT) technology and mastery of foreign languages in the agricultural sector.</i>

Matrix of relationship between Courses and Intended Learning Outcomes (ILO) on the Bachelor Program of Agroecotechnology (BPA)

No	Kode Mata Kuliah <i>Course Code</i>	Mata Kuliah <i>Courses</i>	Capaian Pembelajaran (CPL) <i>Intended Learning Outcomes (ILO)</i>							
			ILO1	ILO2	ILO3	ILO4	ILO5	ILO6	ILO7	ILO8
1.	MU0000603W001	Pendidikan Agama <i>Religion Education</i>	3	2	0	0	0	0	0	0
2.	MU0000602W002	Pancasila <i>Pancasila</i>	3	0	0	0	0	0	0	0
3.	MU0000602W004	Bahasa Indonesia <i>Indonesian Language</i>	2	0	1	0	0	2	0	0
4.	MU0000602W006	Ilmu Sosial dan Budaya Dasar <i>Social Science and Basic Culture</i>	3	0	3	1	0	2	0	0
5.	220301612W005	Pengantar Ilmu Pertanian Tropika Lembab <i>Introduction of Humid Tropical Agriculture Science</i>	1	3	2	0	0	0	0	0
6.	220301613W006	Mikrobiologi Dasar <i>Fundamental of Microbiology</i>	1	3	0	0	0	0	0	0
7.	220301612W007	Agroekologi <i>Agroecology</i>	1	3	0	2	0	0	0	0
8.	220301612W008	Sistem Manajemen Informasi <i>Information Management System</i>	2	3	0	0	0	0	0	3
9.	220301612W009	Biologi Pertanian <i>Agriculture Biology</i>	1	2	3	2	0	0	0	0
10.	MU0000602W003	Kewarganegaraan <i>Citizenship</i>	3	0	0	0	1	2	0	0
11.	220301622W002	Kewirausahaan <i>Enterpreunership</i>	1	0	0	0	3	2	3	2

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			ILO1	ILO2	ILO3	ILO4	ILO5	ILO6	ILO7	ILO8
12.	220301623W003	Bahasa Inggris Pertanian <i>Agricultural English</i>	1	0	0	0	0	2	0	3
13.	220301623W004	Agronomi <i>Agronomy</i>	1	0	3	2	0	0	2	1
14.	220301623W005	Ilmu Tanah <i>Soil Science</i>	1	0	3	2	0	0	2	1
15.	220301622W006	Genetika Dasar <i>Fundamental of Genetics</i>	1	3	0	2	0	0	3	0
16.	220301623W007	Proteksi Tanaman <i>Plant Protection</i>	1	0	3	2	0	0	2	1
17.	220301623W008	Botani <i>Botany</i>	1	3	0	2	0	0	0	1
18.	220301633W001	Statistika Pertanian <i>Agricultural Statistics</i>	1	0	0	3	0	0	0	3
19.	220301632W002	Metodologi Penelitian <i>Research Methodology</i>	1	0	0	3	0	0	3	2
20.	220301633W0023	Fisiologi Tumbuhan <i>Plant Physiology</i>	1	0	0	2	0	0	0	1
21.	220301633W004	Mekanisasi Pertanian <i>Agricultural Mechanisation</i>	3	0	0	2	0	0	3	0
22.	220301633W005	Kesuburan Tanah dan Pemupukan <i>Soil Fertility and Fertilizer</i>	3	0	0	3	0	0	3	1
23.	220301632W006	Pengelolaan Terpadu Organisme Pengganggu Tumbuhan <i>Integrated Pests Management</i>	1	2	3	2	0	0	3	0
24.	220301633W007	Prinsip Pertanian Perkotaan <i>Principles of Urban Farming</i>	1	2	0	3	0	0	2	0
25.	220301632W008	Keanekaragaman Hayati Tumbuhan Tropika Lembab <i>Biodiversity of Humid Tropical Plants</i>	1	3	0	2	0	1	0	0
26.	220301643W001	Agrohidrologi <i>gohidrologi</i>	1	2	3	2	0	0	3	2
27.	220301643W002	Rancangan Penelitian <i>Experimental Design</i>	1	0	0	2	0	0	3	0
28.	220301643W003	Bioteknologi Pertanian <i>Agricultural Biotechnology</i>	1	1	0	2	0	0	3	0
29.	220301643W004	Pengelolaan Tanah Tropika Lembab <i>Soil Management of Humid Tropics</i>	1	2	3	3	0	0	2	0
30.	220301643W005	Pestisida dan Teknik Aplikasi <i>Pesticides and Aplication techniques</i>	1	0	0	3	0	0	2	1

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			ILO1	ILO2	ILO3	ILO4	ILO5	ILO6	ILO7	ILO8
31.	220301643W006	Pengelolaan Limbah Pertanian <i>Agricultural Waste Management</i>	1	0	2	3	0	0	1	0
32.	220301642W007	Pertanian Masa Depan <i>Future Agriculture</i>	1	0	3	3	0	0	1	1
33.	220301643W008	Agroklimatologi <i>Agroclimatology</i>	1	0	0	3	0	0	2	2
34.	220301653P003	Kultur Jaringan Tanaman * <i>Tissue Culture*</i>	1	0	0	3	0	1	3	1
35.	220301652P004	Tanaman Bioenergi* <i>Bioenergy Plants*</i>	1	2	2	2	0	1	3	0
36.	220301653P005	Budidaya tanaman Sawit dan Karet* <i>Cultivation of Oil palm and Rubber plantations*</i>	1	1	0	0	2	0	3	0
37.	220301653P006	Budidaya Tanaman Semusim* <i>Cultivation of Annual Crops*</i>	1	1	0	0	2	0	3	0
38.	220301653P007	Pemuliaan Tanaman* <i>Plant Breeding*</i>	1	1	0	2	0	0	3	0
39.	220301653P008	Ilmu Hortikultura* <i>Horticulture Science*</i>	1	1	0	2	0	0	0	3
40.	220301652P009	Budidaya Tanaman Kopi, Kakao, dan Lada <i>Cultivation of Coffee, Cocoa, and Pepper*</i>	1	1	0	0	2	0	3	0
41.	220301652P010	Budidaya Tanaman Rempah dan Obat-obatan <i>Cultivation of Spice and Plant Medicine*</i>	1	1	0	0	2	0	3	0
42.	220301653P011	Budidaya Tanaman Hias <i>Cultivation of Ornamental Plants*</i>	1	1	0	0	2	0	3	0
43.	220301653P012	Pomologi <i>Pomology*</i>	1	1	0	2	0	0	0	3
44.	220301653P013	Reklamasi Lahan* <i>Land Reclamation*</i>	1	0	2	3	0	0	2	0
45.	220301653P014	Analisis Tanah dan Tanaman* <i>Analysis of Soil and Plants*</i>	1	2	0	2	0	0	3	0
46.	220301653P015	Kimia Tanah* <i>Soil Chemistry*</i>	1	2	0	2	0	0	2	0
47.	220301653P016	Fisika Tanah* <i>Soil Physics*</i>	1	2	0	2	0	0	2	0
48.	220301653P017	Geologi dan Mineralogi* <i>Geology and Mineralogy*</i>	1	0	1	2	0	0	2	0
49.	220301653P018	Morfologi dan Klasifikasi Tanah* <i>Morphology and Soil Classification*</i>	1	1	0	2	0	0	2	0

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50.	220301653P019	Geodesi dan Kartografi* <i>Geodesy and Cartography*</i>	1	1	0	2	0	0	2	0
51.	220301653P020	Geomorfologi dan Analisis Lanskap* <i>Geomorphology and Landscape Analysis*</i>	1	0	2	2	0	0	0	2
52.	220301653P021	Penginderaan Jarak Jauh* <i>Remote Sensing*</i>	1	3	0	2	0	0	0	3
53.	220301653P022	Survei Tanah dan Evaluasi Lahan* <i>Soil Survey and Land Evaluation*</i>	1	3	0	2	0	0	0	3
54.	220301653P023	Biologi dan Kesehatan Tanah* <i>Soil Biology and Health*</i>	1	0	2	2	0	0	2	0
55.	220301653P024	Entomologi <i>Entomology*</i>	1	1	0	2	0	0	0	3
56.	220301653P025	Mikologi dan Bakteriologi <i>Micology and Bacteriology*</i>	1	1	0	2	0	0	0	3
57.	220301653P026	Nematologi (Nematology)*	1	1	0	2	0	0	0	3
58.	220301652P027	Karantina Tumbuhan* <i>Plant Quarantine*</i>	1	0	0	3	0	0	0	0
59.	220301653P028	Epidemiologi Penyakit Tumbuhan* <i>Epidemiology of Plant Diseases*</i>	1	0	1	3	0	0	2	0
60.	220301653P029	Vertebrata Hama* <i>Pest Vertebrates*</i>	1	1	0	2	0	0	0	3
61.	220301653P030	Biologi dan Pengendalian Nematoda* <i>Nematode Biology and Control*</i>	1	1	0	2	0	0	3	0
62.	220301653P031	Fisiologi dan Biokimia Herbisida* <i>Physiology and Biochemistry of Herbicide*</i>	1	1	0	2	0	0	3	0
63.	220301653P032	Ilmu Gulma* <i>Weed Science*</i>	1	1	0	2	0	0	0	3
64.	220301653P033	Ilmu Penyakit Tumbuhan* <i>Plant Disease Science*</i>	1	1	0	2	0	0	0	3
65.	220301653P034	Ilmu Hama Tumbuhan* <i>Plant Pest Science*</i>	1	1	0	2	0	0	0	3
66.	220301663P002	Teknologi Benih* <i>Seed Technology*</i>	1	2	0	1	0	0	3	0
67.	220301663P003	Budidaya Tanaman Padi Tropika Lembab* <i>Humid Tropical Rice Cultivation*</i>	1	1	0	2	0	0	3	0
68.	220301663P004	Nutrisi Tanaman* <i>Plant Nutrition*</i>	1	2	0	3	0	0	3	0
69.	220301663P005	Agroforestri	1	2	0	3	0	0	2	0

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			ILO1	ILO2	ILO3	ILO4	ILO5	ILO6	ILO7	ILO8
		<i>Agroforestry*</i>								
70.	220301663P006	Penanganan Pasca Panen* <i>Post Harvest Handling*</i>	1	2	0	3	0	0	3	0
71.	220301663P007	Pengendalian Hayati* <i>Biological Control*</i>	1	1	0	2	0	0	3	0
72.	220301663P008	Dasar Penyuluhan dan Komunikasi Pertanian* <i>Basic Agricultural Extension and Communicatio*</i>	1	3	0	2	0	3	0	0
73.	220301663P009	Konservasi Tanah dan Air* <i>Soil and Water Conservation*</i>	1	0	2	3	0	0	3	0
74.	220301663P010	Perencanaan Pengembangan Wilayah dan Tata Guna Lahan <i>Regional Development Planning and Land Use *</i>	1	2	0	0	0	0	2	3
75.	220301663P011	Pengelolaan Daerah Aliran Sungai* <i>Watershed Management*</i>	1	0	2	3	0	0	3	0
76.	220301663P012	Sistem Pertanian Kearifan Lokal* <i>Local Wisdom Agriculture System*</i>	1	0	2	2	0	0	1	0
77.	220301663P013	Polusi Tanah dan Air* <i>Soil and Water Polution*</i>	1	3	0	2	0	0	0	3
78.	220301663P014	Sistem Informasi Geografi* <i>Geographic Information System*</i>	1	2	0	0	0	0	2	3
79.	220301663P015	Virologi <i>Virology*</i>	1	1	0	2	0	0	0	3
80.	220301663P016	Sistem Peramalan Hama <i>Pest Forecasting System*</i>	1	0	1	3	0	0	2	0
81.	220301663P017	Ekologi Pestisida* <i>Ecology of Pesticide *</i>	1	3	0	2	0	0	0	0
82.	220301663P018	Dasar Ekologi Serangga* <i>Fundamentals of Insect Ecology*</i>	1	3	0	2	0	0	0	0
83.	220301663P019	Teknologi Pestisida Nabati* <i>Botanical Pesticide Technology*</i>	1	3	0	2	0	0	0	0
84.	220301663P020	Identifikasi Jasad Pengganggu Tanaman* <i>Identification of Insects Pest, Diseases, and Weeds*</i>	1	2	0	2	0	0	0	0
85.	220301663P021	Klinik Tumbuhan* <i>Plant Clinic*</i>	1	1	0	2	0	0	3	0
86.	220301663P022	Hama dan Penyakit Pasca Panen* <i>Pests and Postharvest Diseases*</i>	1	2	0	2	0	0	0	0
87.	220301672W001	Praktek Kerja Lapangan <i>Field Practice</i>	2	0	0	0	3	3	1	0
88.	MU0000673W007	Kuliah Kerja Nyata	1	0	0	0	3	3	2	0

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			ILO1	ILO2	ILO3	ILO4	ILO5	ILO6	ILO7	ILO8
		<i>Community Service Program</i>								
89.	220301672W002	Seminar <i>Seminar</i>	3	0	0	3	2	0	3	1
90.	220301676W003	Skripsi <i>Thesis</i>	1	0	3	1	2	1	3	1

Table Discription:

Contribution of the courses to Intended learning Outcomes (ILO)	Score
No contribution	0
Low	1
Medium	2
High	3

Matrix Hubungan Capaian Pembelajaran dengan Profil Lulusan / *Matrix of relationship between Intended Learning Outcome (ILO) and Program Learning Outcomes (PLO)*

CPL / ILO	Description	Prifil Lulusan / Program Education Outcomes (PLO)		
		PLO 1	PLO 2	PLO 3
ILO1	Have faith in God Almighty, uphold human values, religion, morals, academic norms and ethics, and be responsible for the knowledge and application of technology.	✓	✓	✓
ILO2	Mastering science and technology in the field of sustainable humid tropical agriculture	✓	✓	✓
ILO3	Mastering research methodology and adapting to situations faced in solving problems in the Humid Tropical Agriculture Sector procedurally and scientifically.	✓	✓	✓
ILO4	Able to implement logical, critical, systematic, and innovative thinking in the context of developing and implementing science and technology to solve humid tropical agricultural problems.	✓	✓	✓
ILO5	Able to demonstrate independent, quality, and measurable performance and to be responsible for the achievement of group work results and supervise and evaluate work completion.	✓	✓	✓
ILO6	Able to maintain and develop working networks with supervisors, colleagues, and partners inside and outside the institution.	✓	✓	✓
ILO7	Able to plan, implement, evaluate, and innovate in developing production systems and able to provide solutions to the problems in the field of sustainable agriculture.	✓	✓	✓
ILO8	Able to apply Internet of Things (IoT) technology and mastery of foreign languages in the agricultural sector.	✓	✓	✓