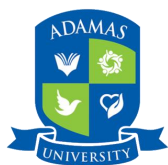


Program Name: B.Sc. (Hons) Agriculture

Code: AGR3401

Offered by the School of Smart Agriculture, Adamas University

Duration: 4 Years



DISTRIBUTION OF COURSES SEMESTER-WISE

B.Sc. (Hons.) Agriculture Course Structure

Program Code: AGR3401

4 years; 204 credits

Semester I

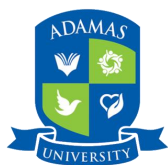
No.	Course Code	Course Title	L-T-P	Credits
1	AGR11001	Agricultural Heritage	1-0-0	1(1+0)
2	AGR13002	Fundamentals of Agronomy	2-0-1	3(2+1)
3	AGR13003	Fundamentals of Soil Science	2-0-1	3(2+1)
4	AGR13004	Fundamentals of Plant Biochemistry	2-0-2	3(2+1)
5	AGR13005	Fundamentals of Horticulture	1-0-2	2(1+1)
6	AGR13006	Introduction to Forestry	1-0-2	2(1+1)
7	AGR11007	Rural Sociology and Educational Psychology	2-0-0	2(2+0)
8	AGR13008	Fundamentals of Crop Physiology	2-0-1	3(2+1)
9	AGR11009	Comprehension and Communication Skills in English	2-0-0	2(2+0)
10	/ BIT11003	Elementary Mathematics*/Life Sciences*	2-0-0	2(2+0)
11	DGS11001	Design Thinking	2-0-0	2(2+0)
12		NSS/NCC/Physical Education and Yoga Practices**	0-0-2	-
		Total	19-0-11	25(19+6)

*student will choose any one course based on their class 12 subjects

**non-gradual course

Semester II

No.	Course Code	Course Title	L-T-P	Credits
1	AGR13010	Agriculture Microbiology	2-0-1	3(2+1)
2	AGR13011	Crop Production Technology I(Kharif Crops)	1-0-2	2(1+1)
3	AGR13012	Fundamentals of Entomology (Insect Morphology and Taxonomy)	2-0-1	3(2+1)
4	AGR13013	Agro-meteorology and Climate Change	2-0-1	3(2+1)
5	AGR13014	Fundamentals of Plant Pathology (Mycology)	2-0-1	3(2+1)
6	AGR13015	Fundamentals of Genetics & Molecular Biology	2-0-2	3(2+1)
7	AGR11016	Fundamentals of Agricultural Economics	2-0-0	2(2+0)
8	AGR13017	Fundamentals of Agricultural Extension Education	2-0-1	3(2+1)
9	AGR13018	Soil and Water Conservation Engineering	1-0-2	2(1+1)
10	AGR13019	Livestock and Poultry Production	2-0-1	3(2+1)
11	MTH1534	Fundamentals of Biostatistics	2-0-0	2(2+0)
12	IDP14001	Interdisciplinary Project	0-0-3	3(0+3)



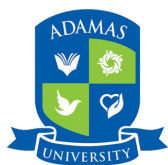
		Total	20-0-15	32(20+12)
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Semester III

No.	Course Code	Course Title	L-T-P	Credits
1	AGR13020	Crop Production Technology II(Rabi Crops)	2-0-1	3(2+1)
2	AGR13021	Fundamentals of Plant Breeding	2-0-2	3(2+1)
3	AGR13022	Fundamentals of Entomology II (Insect Ecology and their Management)	2-0-1	3(2+1)
4	AGR13023	Principles of Plant Pathology	2-0-1	3(2+1)
5	AGR13024	Diseases of Field and Horticultural Crops and their Management I (Field Crops)	2-0-1	3(2+1)
6	AGR13025	Agricultural Finance and Co-operation	2-0-2	3(2+1)
7	ENG 13069	Communication Skills and Personality Development	1-0-2	2(1+1)
8	AGR13026	Ecophysiology	1-0-2	2(1+1)
9	AGR13027	Production Technology for Vegetables and Spices	1-0-2	2(1+1)
10	AGR13028	Agriculture Engineering I (Farm Machinery and Power)	1-0-2	2(1+1)
11	SOC14100	Community Service	0-0-0	1(0+1)
12	EIC11001	Venture Ideation	2-0-0	2(2+0)
		Total	18-0-16	29(18+11)

Semester IV

No.	Course Code	Course Title	L-T-P	Credits
1	AGR13029	Agricultural Chemistry & Toxicology	1-0-1	2(1+1)
2	AGR13030	Weed Management	1-0-2	2(1+1)
3	AGR13031	Principles of Seed Processing Technology	2-0-2	3(2+1)
4	AGR13032	Crop Improvement I(<i>Cereals, Millets, Pulses and Oilseeds</i>)	1-0-2	2(1+1)
5	AGR13033	Manures, Fertilizers and Soil Fertility Management	1-0-2	2(1+1)
6	AGR13034	Diseases of Field and Horticultural Crops and their Management II (Horticultural Crops)	1-0-2	2(1+1)
7	AGR13035	Agricultural Marketing, Trade and Prices	2-0-2	3(2+1)
8	AGR13036	Principles of Hydroponics, Aquaponics and Aeroponics	2-0-2	3(2+1)
9	AGR13037	Production Technology of Fruit and Plantation Crops	1-0-2	2(1+1)
10	AGR13038	Agriculture Engineering II (Irrigation Management)	1-0-1	2(1+1)
11	PSG11021	Human Values & Professional Ethics	2-0-0	2(2+0)
12		Elective I	1-0-2	2(1+1)
		Total	16-0-20	27(16+11)



Elective I

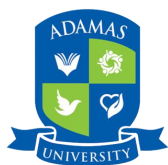
No.	Course Code	Course Title (choose any 1)	L-T-P	Credits
1	AGR13039	Agribusiness Management	1-0-2	2(1+1)
2	AGR13040	Agrochemicals, their usages and Formulation	1-0-2	2(1+1)
3	AGR13041	Commercial Plant Breeding	1-0-2	2(1+1)
4	AGR13042	Commercial Floriculture and Landscaping	1-0-2	2(1+1)
5	AGR13043	Food and Feed Safety Issues	1-0-2	2(1+1)
6	AGR13044	Sheep and Goat Production	1-0-2	2(1+1)

Semester V

No.	Course Code	Course Title	L-T-P	Credits
1	AGR13045	Principles of Organic Agriculture	1-0-2	2(1+1)
2	AGR13046	Dryland Agriculture and Watershed Management	1-0-2	2(1+1)
3	AGR13047	Crop Improvement II(<i>Fiber, Sugar, Starch, Narcotics, Vegetables, Fruits and Flowers</i>)	1-0-2	2(1+1)
4	AGR13048	Principles and Practices of Agricultural Biotechnology	1-0-1	2(1+1)
5	AGR13049	Problematic Soils and their Management	1-0-2	2(1+1)
6	AGR13050	Principles of Integrated Pest and Disease Management	1-0-2	2(1+1)
7	AGR13051	Farm Management, Production and Resource Economics	1-0-2	2(1+1)
8	AGR11052	Entrepreneurship Development and Business Communication	2-0-0	2(2+0)
9	AGR13053	Production Technology of Ornamental Crops, MAP and Landscaping	1-0-2	2(1+1)
10	AGR13054	Protected Cultivation and Greenhouse Management	1-0-2	2(1+1)
11	AGR13055	Introduction to Sensors and Smart Agriculture	2-0-1	3(2+1)
12		Elective II	1-0-2	2(1+1)
		Total	14-0-20	25(14+11)

Elective II

No.	Course Code	Course Title (choose any 1)	L-T-P	Credits
1	AGR13056	Agriculture Waste Management	1-0-2	2(1+1)
2	AGR13057	Biopesticides & Biofertilizers	1-0-2	2(1+1)
3	AGR13058	Protected Cultivation	1-0-2	2(1+1)
4	AGR13059	Hi-tech. Horticulture	1-0-2	2(1+1)
5	AGR13060	Livestock Products Processing	1-0-2	2(1+1)
6	AGR13061	Maintenance of Agriculture Equipments	1-0-2	2(1+1)



Semester VI

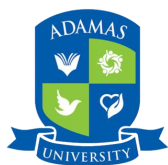
No.	Course Code	Course Title	L-T-P	Credits
1	AGR13062	Remote Sensing, Drones and their Application in Agriculture	2-0-2	3(2+1)
2	AGR13063	Farming System and Sustainable Agriculture	1-0-2	2(1+1)
3	AGR13064	Fundamentals of Robotics, Artificial Intelligence & Machine Learning in Agriculture	2-0-2	3(2+1)
4	AGR11065/13065	Intellectual Property Rights	1-0-0	1(1+0)
5	AGR13066	Management of Agriculturally Beneficial Insects	1-0-2	2(1+1)
6	AGR13067	Geo-informatics and Nanotechnology for Precision Farming	1-0-2	2(1+1)
7	AGR13068	Computer Applications and Agriculture Informatics	1-0-2	2(1+1)
8	AGR13069	Post-harvest Management and Value-addition of Fruits, Flowers and Vegetables	1-0-2	2(1+1)
9	AGR13070	Renewable Energy and Green Technology	1-0-2	2(1+1)
10	AGR11071/	Principles of Food Science and Nutrition	2-0-0	2(2+0)
11	AGR13072	Environmental Studies and Disaster Management	1-0-2	2(1+1)
12	AGR11073/13073	Agriculture Supply Chain Management and Warehousing	1-0-0	1(1+0)
13		Elective III	1-0-2	2(1+1)
		Total	16-0-20	26(16+10)

Elective III

No.	Course Code	Course Title (choose any 1)	L-T-P	Credits
1	AGR13074	Commercial Micro propagation Techniques	1-0-2	2(1+1)
2	AGR13075	System Simulation and Agro-advisory	1-0-2	2(1+1)
3	AGR13076	Agricultural Journalism	1-0-2	2(1+1)
4	AGR13077	Poultry and Rabbit Production and management	1-0-2	2(1+1)
5	AGR13078	Soil, Plant and Plant and Seed Testing	1-0-2	2(1+1)
6	AGR13079	Applied Animal Breeding	1-0-2	2(1+1)

Semester VII

No.	Course Code	Course Title	L-T-P	Credits
1	AGR14080	Rural Agricultural Work Experience and Agro Industrial Attachment	0-0-20	20(0+20)
		Total	0-0-20	20(0+20)



Semester VIII

No.	Course Code	Course Title (choose any 2)	L-T-P	Credits
1	AGR12081	Production of Bio-agents and Botanical pesticides	0-0-10	10(0+10)
2	AGR12082	Commercial Seed Production	0-0-10	10(0+10)
3	AGR12083	Commercial Mushroom Cultivation	0-0-10	10(0+10)
4	AGR12084	Commercial Food Processing	0-0-10	10(0+10)
5	AGR12085	Commercial Apiculture	0-0-10	10(0+10)
6	AGR12086	Commercial Organic Farming	0-0-10	10(0+10)
7	AGR12087	Commercial Sericulture	0-0-10	10(0+10)
8	AGR12088	Plant Tissue Culture	0-0-10	10(0+10)
9	AGR12089	Commercial Dairy Production and Processing	0-0-10	10(0+10)
10	AGR12090	Commercial Poultry Production and Hatchery Management	0-0-10	10(0+10)
11	AGR12091	Commercial Livestock Feed Production and Processing	0-0-10	10(0+10)
12	AGR12092	Commercial Aquaculture and Fish breeding	0-0-10	10(0+10)
		Total	0-0-20	20(0+20)