

Course Structure / Curriculum

Programme: B.Sc. (Hons.) Agriculture

Regulations: R23

COURSE STRUCTURE						
I Year 1st Semester (I Semester) courses						
S.No.	COURSE CODE	COURSE TITLE	Hours/Week			
			L	T	P	C
1	AGRO-101	Fundamentals of Agronomy and Agricultural Heritage	2	0	2	3
2	ENGL-101	Comprehension and Communication skills in English	1	0	2	2
3	AMBE-101	Agricultural Microbiology	1	0	2	2
4	AGBM-101	Human Values and Ethics (non-gradual)	1	0	0	1
5	SSAC-121	Fundamentals of Soil Science	2	0	2	3
6	AECO-141	Fundamentals of Agricultural Economics	2	0	0	2
7	CPHY-161	Fundamentals of Crop Physiology	1	0	2	2
8	PATH-171	Introduction to Plant Pathogens	2	0	2	3
9	HORT-181	Fundamentals of Horticulture	1	0	2	2
10	AEXT-191	Rural Sociology and Educational Psychology	2	0	0	2
11	SMCA-102	Statistical Methods with Data Visualization	1	0	2	2
TOTAL			16	0	16	24
I Year - 2nd Semester (II Semester) courses						
S.No.	COURSE CODE	COURSE TITLE	Hours/Week			
			L	T	P	C
1	SMCA-101	Elementary Mathematics	2	0	0	2
2	BICM-101	Fundamentals of Plant Biochemistry and Biotechnology	2	0	2	3
3	AGRO-102	Introduction to Forestry	1	0	2	2
4	AGRO-103	Introductory Agro-meteorology and Climate change	1	0	2	2
5	LPFM-101	Livestock, Poultry and Fisheries management - I	2	0	0	2
6	FDSN-101	Principles of Food Science and Nutrition	2	0	0	2
7	GPBR-111	Fundamentals of Genetics	2	0	2	3
8	ENTO-131	Fundamentals of Entomology	2	0	2	3
9	AEXT-192	Life Skills and Personality Development	1	0	2	2
10	AENG-151	Soil and Water Conservation Engineering	1	0	2	2
11	COCA-100	Physical Education and Yoga Practices (non-gradual)	0	0	4	2
TOTAL			16	0	18	25
II Year - 1st Semester (III Semester) courses						
S.No.	COURSE CODE	COURSE TITLE	Hours/Week			
			L	T	P	C
1	SMCA-201	Statistical Methods	1	0	2	2
2	AGRO-201	Crop Production Technology – I (Kharif Crops)	2	0	2	3
3	AGRO-203	Irrigation Water Management	1	0	2	2
4	GPBR-211	Fundamentals of Plant Breeding	2	0	2	3
5	ENTO-231	Fundamentals of Entomology II (Insect Ecology and Concepts of IPM)	1	0	2	2
6	AECO-241	Farm Management, Production & Resource Economics	2	0	2	3
7	AENG-251	Farm Power and Machinery	1	0	2	2
8	HORT-281	Production Technology for Vegetables and Spices	1	0	2	2
9	HORT-282	Production Technology for Fruit and Plantation Crops	1	0	2	2
10	AEXT-291	Fundamentals of Agricultural Extension Education	2	0	2	3
11	MULTI-2R1	Undergraduate Research in Agriculture	0	0	2	1
TOTAL			14	0	22	24
II YEAR - 2nd Semester (IV SEMESTER) COURSES						
S.No.	COURSE CODE	COURSE TITLE	Hours/Week			
			L	T	P	C
1	LPFM-201	Live Stock, Poultry and Fisheries Management - II	1	0	2	2
2	AGRO-202	Crop Production Technology - II (Rabi Crops)	2	0	2	3
3	GPBR-212	Principles of Seed Technology	2	0	2	3
4	SSAC-221	Manures, Fertilizers and Soil Fertility Management	2	0	2	3

5	AECO-242	Agricultural Finance and Cooperation	1	0	2	2
6	AENG-252	Protected Cultivation and Secondary Agriculture	1	0	2	2
7	PATH-271	Principles of Plant Pathology	2	0	0	2
8	HORT-283	Production Technology of Ornamental Crops Medicinal, Aromatic Plants and Landscaping	1	0	2	2
9	SMCA-202	Problem Solving Using Python Programming	1	0	2	2
10	PE- I	Program Elective - I	2	0	2	3
		TOTAL	15	0	18	24

III Year - 1st Semester (V Semester) courses

S.No.	COURSE CODE	COURSE TITLE	Hours/Week			
			L	T	P	C
1	AGRO-301	Rainfed Agriculture and Watershed Management	1	0	2	2
2	AGRO-302	Practical Crop Production –I (Kharif Crops)	0	0	4	2
3	GPBR-311	Crop Improvement-I (Kharif Crops)	1	0	2	2
4	SSAC-321	Management of Problem Soils and irrigation water	1	0	2	2
5	ENTO-331	Pests of Crops and Stored Grains and their Management	2	0	2	3
6	AECO-341	Agricultural Marketing, Trade & Prices	2	0	2	3
7	AENG-351	Renewable Energy and Green Technology	1	0	2	2
8	PATH-372	Diseases of Horticultural Crops and their Management	1	0	2	2
9	PATH-373	Principles of Integrated Plant Disease Management	1	0	2	2
10	AEXT-391	Entrepreneurship Development and Business Communication	1	0	2	2
11	PE- II	Program Elective - II	2	0	2	3
		TOTAL	13	0	24	25

III Year - 2nd Semester (VI Semester) courses

S.No.	COURSE CODE	COURSE TITLE	Hours/Week			
			L	T	P	C
1	EVST-301	Environmental Studies and Disaster Management	2	0	2	3
2	SMCA-301	Agri informatics	1	0	2	2
3	AGRO-303	Geoinformatics and Nano-technology for Precision Farming	1	0	2	2
4	AGRO-304	Practical crop production – II (Rabi crops)	0	0	4	2
5	AGRO-305	Farming systems and organic farming for sustainable agriculture	2	0	2	3
6	GPBR-312	Crop Improvement-II (Rabi crops)	1	0	2	2
7	GPBR-313	Intellectual Property Rights	1	0	0	1
8	ENTO-332	Management of beneficial insects	1	0	2	2
9	PATH-371	Diseases of Field Crops and their Management	2	0	2	3
10	HORT-381	Post-harvest Management and Value Addition of Fruits and Vegetables	1	0	2	2
11	PE- III	Program Elective - III	2	0	2	3
		TOTAL	14	0	22	25

IV Year 1st Semester (VII Semester) courses

S.No.	COURSE CODE	COURSE TITLE	Hours/Week			
			L	T	P	C
		Rural Agricultural Work Experience (RAWEP) and Agro-Industrial Attachment (AIA)				
1	RAWEP	Crop Production (Agronomy, Soil Science, Horticulture)	0	0	10	5
		Crop Protection (Entomology, Plant Pathology)	0	0	8	4
		Rural Economics (Agrl. Economics) & Agrl. Engineering	0	0	6	3
		Extension Programme (Agrl. Extension) & Animal Husbandry and Dairy Science	0	0	8	4
		Research Station/KVK/DAATTC/AIA	0	0	8	4
		TOTAL	0	0	40	20

IV Year 2nd Semester (VIII Semester) course

S.No.	COURSE CODE	COURSE TITLE	Hours/Week			
			L	T	P	C
1	ELP	Experiential Learning Programme (ELP) (Modules for Skill Development and Entrepreneurship)	0	0	40	20
		TOTAL	0	0	40	20

Program Elective - I

1	ELEC-200	Weed Management	2	0	2	3
2	ELEC-230	Bio-pesticides and Bio-fertilizers	2	0	2	3

Program Elective - II						
1	ELEC-340	Agribusiness management	2	0	2	3
2	ELEC-380	Protected Cultivation / Hi-tech Horticulture	2	0	2	3
3	ELEC-391	Launching Startups	2	0	2	3
Program Elective - III						
1	ELEC-350	Food safety & Standards	2	0	2	3
2	ELEC-360	Applied crop physiology	2	0	2	3
3	ELEC-390	Agricultural Journalism	2	0	2	3