

SCHEDULE OF COURSES FOR B.Sc. (Hons.) AGRICULTURE

I.CORE COURSES		
AGRICULTURAL ECONOMICS		
AEC 101	Fundamentals of Agricultural Economics	2(2+0)
AEC 201	Farm Management, Production & Resource Economics	2(1+1)
AEC 202	Agricultural Finance and Co-Operation	3(2+1)
AEC 301	Agricultural Marketing, Trade & Prices	3(2+1)
	Total	10 (7+3)
AGRICULTURAL ENGINEERING		
AEG 101	Soil and Water Conservation Engineering	2(1+1)
AEG 201	Farm Machinery and Power	2(1+1)
AEG 202	Protected Cultivation and Secondary Agriculture	2(1+1)
AEG 301	Renewable Energy and Green Technology	2(1+1)
	Total	8 (4+4)
AGRICULTURAL ENTOMOLOGY		
AET 101	Fundamentals of Entomology	3(2+1)
AET 201	Principles of Integrated Pest Management	3(2+1)
AET 301	Pests of Crops and Stored Grain and their Management	3(2+1)
AET 302	Management of Productive Insects	1(0+1)
	Total	10 (6+4)
AGRICULTURAL EXTENSION EDUCATION		
AEX 101	Constitution of India, Rural Sociology & Educational Psychology	2(1+1)
AEX103	Fundamentals of Agricultural Extension Education	3(2+1)
AEX 201	Communication Skills and Personality Development	2(1+1)
AEX 301	Entrepreneurship Development and Business Communication	2(1+1)
	Total	9 (5+4)
STATISTICS, COMPUTER APPLICATION AND I.P.R.		
AST 201	Agri- Informatics	1(0+1)
AST 202	Statistical Methods	3(2+1)
AST 301	Intellectual Property Rights	1(1+0)
	Total	5 (3+2)
AGRONOMY		
AGR 101	Fundamentals of Agronomy	4(3+1)
AGR 102	Introductory Agro-meteorology & Climate Change	2(1+1)
AGR 201	Crop Production Technology – I (<i>Kharif</i> crops)	3(2+1)
AGR 202	Practical Crop Production - I (<i>Kharif</i> crops)	1(0+1)
AGR 203	Crop Production Technology – II (<i>Rabi</i> crops)	2(1+1)
AGR 204	Practical Crop Production - II (<i>Rabi</i> crops)	1(0+1)
AGR 205	Geoinformatics and Nanotechnology for Precision Farming	2(1+1)
AGR 301	Experimental Techniques in Agricultural Research	1(0+1)
AGR 302	Principles of Organic Farming	1(0+1)
AGR 303	Rainfed Agriculture & Watershed Management	2(1+1)
AGR 304	Farming System & Sustainable Agriculture	1(1+0)
	Total	20 (10+10)

	BIOCHEMISTRY / BIOTECHNOLOGY/PHYSIOLOGY / MICROBIOLOGY/ ENVIRONMENTAL SCI./FORESTRY	
BCH 101	Fundamentals of Plant Biochemistry	2(1+1)
BTH 302	Fundamentals of Plant Biotechnology	1(1+0)
CPH 101	Fundamentals of Crop Physiology	3(2+1)
AMB201	Agricultural Microbiology	3(2+1)
ENS 202	Environmental Studies & Disaster Management	2(1+1)
FOR 101	Introduction to Forestry	2(1+1)
	Total	13 (8+5)
	GENETICS & PLANT BREEDING	
GPB 101	Fundamentals of Genetics and Cytogenetics	3(2+1)
GPB 201	Fundamentals of Plant Breeding	3(2+1)
GPB 301	Crop Improvement-I (<i>Kharif</i> crops)	2(1+1)
GPB 302	Crop Improvement-II (<i>Rabi</i> crops)	2(1+1)
	Total	10 (6+4)
	HORTICULTURE	
HRT 101	Fundamentals of Horticulture	2(1+1)
HRT 201	Production Technology for Vegetables and Spices	2(1+1)
HRT 202	Production Technology for Ornamental Crops, MAP and Landscaping	2(1+1)
HRT 301	Production Technology for Fruit and Plantation Crops	2(1+1)
HRT 302	Post-harvest Management and Value Addition of Fruits and Vegetables	2(1+1)
	Total	10 (5+5)
	PLANT PATHOLOGY	
PAT 101	Fundamentals of Plant Pathology	3(2+1)
PAT 301	Principles of Integrated Disease Management	2(1+1)
PAT 302	Diseases of Crops and their Management -I	3(2+1)
PAT 303	Diseases of Crops and their Management-II	3(2+1)
	Total	11 (7+4)
	SEED SCIENCE & TECHNOLOGY	
SST 201	Principles of Seed Technology	3(1+2)
	Total	3 (1+2)
	SOIL SCIENCE AND AGRICULTURAL CHEMISTRY	
SAC 101	Fundamentals of Soil Science	3(2+1)
SAC 202	Problematic soils and their Management	2(1+1)
SAC 301	Manures, Fertilizers and Soil Fertility Management	3(2+1)
	Total	8 (5+3)
	ANIMAL PRODUCTION	
ASC 201	Livestock and poultry Management	3(2+1)
ASC 301	Livestock and poultry health care	1(0+1)
FSH 101	Fisheries Science	1(0+1)
	Total	5 (2+3)
	FOOD SCIENCE	
FSN 101	Principles of Food Science & Nutrition	1(1+0)
	Language	
ENG 101	Comprehension & Spoken English	2(1+1)
	Total of Core Courses	125

II. ELECTIVES (Any three)		9 (6+3)
III. Rural Agricultural Work Experience and Agro-industrial Attachment (RAW & AIA)- Student READY Programme		
	RAW & AIA	20
	Experiential Learning (EPL)/HOT	20
	Total	40
	Total –Gradial Courses(Core Courses+Electives+Student READY)	174
IV. NON-GRADIAL COURSES		
NCC101/ PED 101	NCC/Physical Education & Yoga Practices -I	1(0+1)
NCC102/ PED 102	NCC/Physical Education & Yoga Practices -II	1(0+1)
NSS 201	National Service Scheme	1(0+1)
NSS 202	National Service Scheme	1(0+1)
AEX 102	Human Values & Ethics	1(1+0)
TOR 401	All India Study Tour	1(0+1)
KAN 101 /KNK 101	Kannada Krishi Bhag-1 /Kannada Bhashe	1(0+1)
KAN 102 /KNK 102	Kannada Krishi Bhag-2 /Kannada Sanskriti	1(0+1)
Total		9 (1+ 8)
Total (Gradial + Nongradial)		182
V. REMEDIAL COURSES		
REB 101	Introductory Biology	2(1+1)
	OR	
REM 101	Elementary Mathematics	2(2+0)
Total		2
Grand Total		184

Abstract of Credit Hours

Sl. No.	Courses	Proposed
I.	Core Courses	125
II.	Electives	09
III.	Student READY:	
	RAW & AIA	20
	ELP	20
IV.	Non-gradial Courses	08
Total		182
V.	Remedial Courses	02
Grand Total		184

Elective Courses: A student can select three elective courses out of the following which are offered during 4th, 5th and 6th semesters.

Sl. No.	Course Title	Course Number	Credit Hours.
01	Agribusiness Management	ELC 201	3(2+1)
02	Agrochemicals	ELC 202	3(2+1)
03	Commercial Plant Breeding	ELC 203	3(1+2)
04	Landscaping	ELC 301	3(2+1)
05	Food Safety and Standards	ELC 302	3(2+1)
06	Biopesticides & Biofertilizers	ELC 303	3(2+1)
07	Protected Cultivation	ELC 304	3(2+1)
08	Micro propagation Technologies	ELC 305	3(1+2)
09	Hi-tech. Horticulture	ELC 306	3(2+1)
10	Weed Management	ELC 307	3(2+1)
11	System Simulation and Agro-advisory	ELC 308	3(2+1)
12	Agricultural Journalism	ELC 309	3(2+1)
Total		9	

Modules for Skill Development and Entrepreneurship: A student has to register 20 credits opting for two modules of (0+10) credits each (total 20 credits) from the package of modules in the VIII semester.

Experiential Learning Courses/ Programme (ELP)

Sl. No.	Course Title	Course Number	Credit Hours.
01	Agriculture Waste Management	ELP 401	0+10
02	Commercial Beekeeping	ELP 402	0+10
03	Commercial Horticulture	ELP 403	0+10
04	Commercial Sericulture	ELP 404	0+10
05	Floriculture and Landscaping	ELP 405	0+10
06	Food Processing	ELP 406	0+10
07	Hybrid Seed Production Technology	ELP 407	0+10
08	Mushroom Cultivation Technology	ELP 408	0+10
09	Organic Production Technology	ELP 409	0+10
10	Poultry Production Technology	ELP 410	0+10
11	Production Technology for Bio-agents and Bio-fertilizers	ELP 411	0+10
12	Seed Production Technology	ELP 412	0+10
13	Soil, Plant, Water and Seed Testing	ELP 413	0+10
Total		20	