

AMRITA VISHWA VIDYAPEETHAM
Curriculum for B.Sc. (Hons.) Agriculture – 2019

Table explaining different components of Course Code

19HOR101	19	HOR	1	0	1
Course code	Year to indicate curriculum in operation (here 2019)	abbreviation indicating department/ discipline (here it is Horticulture)	Year of study (First year)	Odd semester (1 st / 3 rd /5 th /7 th)	Serial number of course in a particular discipline in a particular year (here it is first course in first year)

19AGR212	19	AGR	2	1	2
Course code	Year to indicate curriculum in operation (here 2019)	abbreviation indicating department/ discipline (here it is Agronomy)	Year of study (Second year)	Even semester (2 nd /4 th /6 th /8 th)	Serial number of course in a particular discipline in a particular year (here it is second course in second year)

Explanation of the letter code in Course Code

Sl. No.	Letter Code	Department/ Discipline
1.	AEC	Agricultural Economics
2.	AEN	Agricultural Entomology
3.	AEX	Agricultural Extension and Communication
4.	AGM	Agricultural Microbiology
5.	AMP	Animal Production
6.	AGR	Agronomy
7.	BIC	Biochemistry and Biotechnology
8.	BIO	Introductory Biology
9.	CRP	Crop Physiology
10.	CUL	Cultural Education
11.	ENG	Language (English)
12.	ENR	Agricultural Engineering
13.	ENV	Environmental Sciences
14.	FOR	Forestry
15.	FSN	Food Science and Nutrition
16.	GPB	Genetics and Plant Breeding
17.	HOR	Horticulture
18.	INF	Computer Application/ Agri- Informatics
19.	IPR	Intellectual Property Rights
20.	MAT	Mathematics
21.	PAT	Plant Pathology
22.	PED	Physical Education and Yoga Practices
23.	STA	Agricultural Statistics
24.	SSK	Life skills
25.	SAC	Soil Science and Agricultural Chemistry

Semester I

Course Code	Course Title	Theory Hrs/w	Practical Hrs/w	Credit
19HOR101	Fundamentals of Horticulture	1	2.5	2
19BIC101	Fundamentals of Plant Biochemistry and Biotechnology	2	2.5	3
19SAC101	Fundamentals of Soil Science	2	2.5	3
19FOR101	Introduction to Forestry	1	2.5	2
19ENG101	Comprehension and Communication Skills in English	1	2.5	2
19AGR101	Fundamentals of Agronomy	3	2.5	4
19MAT101/ 19BIO101	Elementary Mathematics*/ Introductory Biology*	2/ 1	0/ 2.5	2/ 2
19AGR102	Agricultural Heritage *	1	0	1
19AEX101	Rural Sociology and Educational Psychology	2	0	2
19CUL101	Cultural Education I**	2	0	2
19PED101	NSS/ NCC/ Physical Education and Yoga Practices I**	0	5	2
	Total	15(2/1)	20(0/2.5)	25

* Bridge courses

** Pass-Fail courses

Semester II

Course Code	Course Title	Theory Hrs/w	Practical Hrs/w	Credit
19GPB111	Fundamentals of Genetics	2	2.5	3
19AGM111	Agricultural Microbiology	1	2.5	2
19ENR111	Soil and Water Conservation Engineering	1	2.5	2
19CRP111	Fundamentals of Crop Physiology	1	2.5	2
19AEC111	Fundamentals of Agricultural Economics	2	0	2
19PAT111	Fundamentals of Plant Pathology	3	2.5	4
19AEN111	Fundamentals of Entomology	3	2.5	4
19AEX112	Fundamentals of Agricultural Extension Education	2	2.5	3
19AEX113	Communication Skills and Personality Development	1	2.5	2
19CUL111	Cultural Education II**	2	0	2
19PED112	NSS/ NCC/ Physical Education and Yoga Practices II**	0	5	2
	Total	18	25	28

** Pass-Fail courses

Semester III

Course Code	Course Title	Theory Hrs/w	Practical Hrs/w	Credit
19AGR201	Crop Production Technology – I (<i>Kharif</i> Crops)	1	2.5	2
19GPB201	Fundamentals of Plant Breeding	2	2.5	3
19AEC201	Agricultural Finance and Cooperation	2	2.5	3
19INF201	Agri- Informatics	1	2.5	2
19ENR201	Farm Machinery and Power	1	2.5	2
19HOR201	Production Technology for Vegetables and Spices	1	2.5	2
19ENV201	Environmental Studies and Disaster Management	2	2.5	3
19STA201	Statistical Methods	1	2.5	2
19AMP201	Livestock and Poultry Management	3	2.5	4
	Total	14	22.5	23

Semester IV

Course Code	Course Title	Theory Hrs/w	Practical Hrs/w	Credit
19AGR212	Crop Production Technology –II (<i>Rabi</i> Crops)	1	2.5	2
19HOR212	Production Technology for Ornamental Crops, MAP and Landscaping	1	2.5	2
19ENR212	Renewable Energy and Green Technology	1	2.5	2
19SAC211	Problematic Soils and their management	2	0	2
19HOR213	Production Technology for Fruit and Plantation Crops	1	2.5	2
19GPB212	Principles of Seed Technology	1	5	3
19AGR213	Farming System & Sustainable Agriculture	1	0	1
19AEC212	Agricultural Marketing Trade & Prices	2	2.5	3
19AGR214	Introductory Agro-meteorology & Climate Change	1	2.5	2
	Elective I (Any one elective from the list of electives)	2 [#]	2.5 [#]	3
19SSK211	Life Skills I**	1	2.5	2
	Total	14	25	24

can vary based on electives

**** Pass-Fail courses**

List of Elective Courses for IV Semester

Course Code	List of Elective Courses	Theory Hrs/w	Practical Hrs/w	Credit
19AEC213	Agri-business Management	2	2.5	3
19SAC212	Agrochemicals	2	2.5	3
19GPB213	Commercial Plant Breeding	1	5	3
19HOR214	Landscaping	2	2.5	3
19FSN211	Food Safety and Standards	2	2.5	3
19AGM211	Biopesticides & Biofertilizers	2	2.5	3
19HOR215	Protected Cultivation	2	2.5	3
19GPB214	Micro propagation Technologies	1	5	3
19HOR216	Hi-tech. Horticulture	2	2.5	3
19AGR215	Weed Management	2	2.5	3
19AGR216	System Simulation and Agroadvisory	2	2.5	3
19AEX211	Agricultural Journalism	2	2.5	3

Semester V

Course Code	Course Title	Theory Hrs/w	Practical Hrs/w	Credit
19PAT301	Diseases of Field and Horticultural Crops and their Management –I	2	2.5	3
19PAT302	Principles of Integrated Pest and Disease Management	2	2.5	3
19SAC301	Manures, Fertilizers and Soil Fertility Management	2	2.5	3
19AEN301	Pests of Crops and Stored Grain and their Management	2	2.5	3
19GPB301	Crop Improvement-I (<i>Kharif</i> crops)	1	2.5	2
19AEX301	Entrepreneurship Development and Business Communication	1	2.5	2
19AGR301	Practical Crop Production – I (<i>Kharif</i> crops)	0	5	2
19AGR302	Geoinformatics and Nano-technology and Precision Farming	1	2.5	2
19IPR301	Intellectual Property Rights	1	0	1
	Elective II (Any one elective from the list of electives)	2 [#]	2.5 [#]	3
19SSK301	Life Skills II**	1	2.5	2
	Total	15	27.5	26

[#] can vary based on electives

** Pass-Fail courses

List of Elective Courses for V Semester

Course Code	List of Elective Courses	Theory Hrs/w	Practical Hrs/w	Credit
19AEC301	Agri-business Management	2	2.5	3
19SAC302	Agrochemicals	2	2.5	3
19GPB302	Commercial Plant Breeding	1	5	3
19HOR301	Landscaping	2	2.5	3
19FSN301	Food Safety and Standards	2	2.5	3
19AGM301	Biopesticides & Biofertilizers	2	2.5	3
19HOR302	Protected Cultivation	2	2.5	3
19GPB303	Micro propagation Technologies	1	5	3
19HOR303	Hi-tech. Horticulture	2	2.5	3
19AGR303	Weed Management	2	2.5	3
19AGR304	System Simulation and Agro-advisory	2	2.5	3
19AEX302	Agricultural Journalism	2	2.5	3

Semester VI

Course Code	Course Title	Theory Hrs/w	Practical Hrs/w	Credit
19AGR315	Rainfed Agriculture & Watershed Management	1	2.5	2
19AGR316	Practical Crop Production –II (<i>Rabi</i> crops)	0	5	2
19AGR317	Principles of Organic Farming	1	2.5	2
19ENR311	Protected Cultivation and Secondary Agriculture	1	2.5	2
19PAT313	Diseases of Field and Horticultural Crops and their Management-II	2	2.5	3
19HOR314	Post-harvest Management and Value Addition of Fruits and Vegetables	1	2.5	2
19AEN312	Management of Beneficial Insects	1	2.5	2
19GPB314	Crop Improvement-II (<i>Rabi</i> crops)	1	2.5	2
19AEC312	Farm Management, Production & Resource Economics	1	2.5	2
19FSN312	Principles of Food Science and Nutrition	2	0	2
	Elective III (Any one elective from the list of electives)	2 [#]	2.5 [#]	3
19SSK312	Life Skills III**	0	5	2
	Total	13	32.5	26

[#] can vary based on electives

** Pass-Fail courses

List of Elective Courses for VI Semester

Course Code	List of Elective Courses	Theory Hrs/w	Practical Hrs/w	Credit
19AEC313	Agri-business Management	2	2.5	3
19SAC313	Agrochemicals	2	2.5	3
19GPB315	Commercial Plant Breeding	1	5	3
19HOR315	Landscaping	2	2.5	3
19FSN313	Food Safety and Standards	2	2.5	3
19AGM312	Biopesticides & Biofertilizers	2	2.5	3
19HOR316	Protected Cultivation	2	2.5	3
19GPB316	Micro propagation Technologies	1	5	3
19HOR317	Hi-tech. Horticulture	2	2.5	3
19AGR318	Weed Management	2	2.5	3
19AGR319	System Simulation and Agroadvisory	2	2.5	3
19AEX313	Agricultural Journalism	2	2.5	3

Semester VII

Course Code	Course Title	Theory Hrs/w	Practical Hrs/w	Credit
19AEX401	RAWE - Village Attachment	0	35	14
19AEX402	RAWE – Plant Clinic	0	5	2
19AEX403	RAWE – Agro Industrial Attachment	0	10	4
	Total		50	20

Semester VIII

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**.

Course Code	Course Title	Theory Hrs/w	Practical Hrs/w	Credit
19AGM411	Production Technology for Bioagents and Biofertilizer	0	25	10
19GPB411	Seed Production and Technology	0	25	10
19PAT411	Mushroom Cultivation Technology	0	25	10
19SAC411	Soil, Plant, Water and Seed Testing	0	25	10
19AEN411	Commercial Beekeeping	0	25	10
19AMP411	Poultry Production Technology	0	25	10
19HOR411	Commercial Horticulture	0	25	10
19HOR412	Floriculture and Landscaping	0	25	10
19FSN411	Food Processing	0	25	10
19AGM412	Agriculture Waste Management	0	25	10
19AGR411	Organic Production Technology	0	25	10
19AEN412	Commercial Sericulture	0	25	10