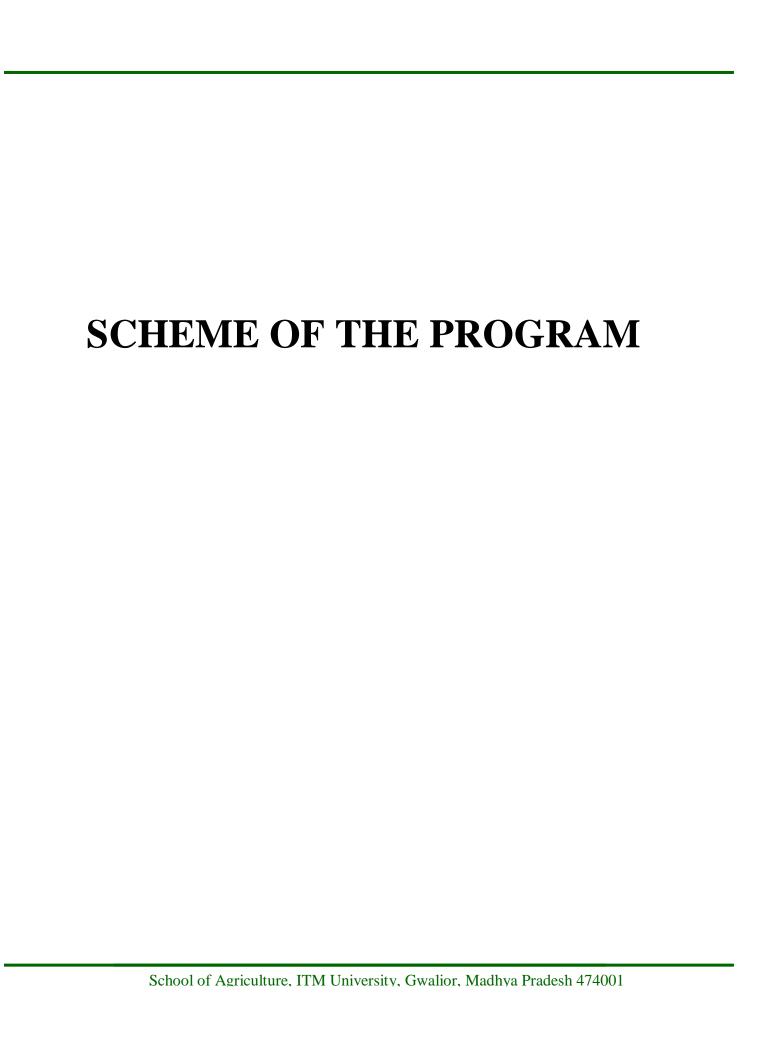


B.Sc. (HONS.) (AGRICULTURE) PROGRAM SCHEME

School of Agriculture,

ITM University, Gwalior, Madhya Pradesh 474001



Semester I

SN	Course Code	Code Title of the Course		EACH CHE		CREDITS	CONTACTS
511	Course Coue	The of the Course	L	Т	P	CREDITS	HRS/WK
1	HORT-111	Fundamentals of Horticulture	1	0	1	2	3
2	BIOCHEM-BT- 111	Fundamentals of Plant Biochemistry and Biotechnology	2	0	1	3	4
3	SS-111	Fundamentals of Soil Science	2	0	1	3	4
4	AGRON -111	Fundamentals of Agronomy	3	0	1	4	5
5	AGRON-113	Introduction to Forestry	1	0	1	2	3
6	AEXT-111	Rural Sociology and Educational Psychology	2	0	0	2	2
7	ENGL 111	Comprehension and Communication Skills in English	1	0	1	2	3
8	AGRON -112	Agriculture Heritage*	1	0	0	1	1
9a	CP-111	Introductory Biology*	1	0	1	2	3
9b	STAT-111	Elementary Mathematics*	2	0	0	2	2
10	AEXT 112	Human Values and Ethics**	1	0	0	1	1
11a	NSS-111	National Service Scheme**	0	0	2	2	4
11b	PED-111	Physical Education and Yoga Practices**	0	0	2	2	4
11c	BNCC01GE03	National Cadet Corps I**	1	0	1	2	3
12	GSDS-111	Socialism in India: Yesterday, Today and Tomorrow	1	0	0	1	1
7	Total Credits	19	(13+6))+03*-	+03**		

Note: *R: Remedial course; **NC: Non-gradial courses, respectively.

²From NSS-111/PED-111 BNCC01GE03, students have to select any one of their choice.

¹From CP-111 and STAT-111, students of Biology Group have to take STAT-111, whereas students from Mathematics Group have to take CP-111, while students who had both biology and math in 12 class have to opt any one of their choice

Semester II

SN	Course Code Title of the Course SCHEME			CREDITS	CONTACTS HRS/WK		
			L	T	P		IIKS/ W K
1	GPB-121	Fundamentals of Genetics	2	0	1	3	4
2	MICROB- 121	Agricultural Microbiology	1	0	1	2	3
3	AENG-121	Soil and Water Conservation Engineering	1	0	1	2	3
4	CP-121	Fundamentals of Crop Physiology	1	0	1	2	3
5	AE-121	Fundamentals of Agricultural Economics	2	0	0	2	2
6	PP-121	Fundamentals of Plant Pathology	3	0	1	4	5
7	ENT-121	Fundamentals of Entomology	3	0	1	4	5
8	AEXT-121	Fundamentals of Agricultural Extension Education	2	0	1	3	4
9	AEXT-122	Communication Skills and Personality Development	1	0	1	2	3
10	BNCC02GE03	National Cadet Corps II*	0	0	2	2	4
Total Credits 24(16+8), Note: *denoting Open Elective Course							

Semester III

SN	Course Code	Course Code Title of the Course		EACE CHE	HING EME	CREDITS	CONTACTS HRS/WK
DIV	Course Coue	The of the Source	L	T	P	CHEDITS	
1	AGRON- 211	Crop Production Technology - I (Kharif crops)	1	0	1	2	3
2	GPB- 211	Fundamentals of Plant Breeding	2	0	1	3	4
3	AE-211	Agricultural Finance and Cooperation	2	0	1	3	4
4	STAT-211	Agri- Informatics	1	0	1	2	3
5	AENG-211	Farm Machinery and Power	1	0	1	2	3
6	HORT- 211	Production Technology for Vegetables and Spices	1	0	1	2	3
7	STAT-211	Statistical Methods	1	0	1	2	3
8	CP-211	Environmental Studies and Disaster Management	2	0	1	3	4
9	AHS- 211	Live-stock and Poultry Management	3	0	1	4	5
10	BNCC03GE02	National Cadet Corps III*	1	0	1	2	3
11	BNCCCAMP0- GE05	NATIONAL CADET CORPS CAMP –I*	2	0	3	5	8
Total Cred	edits 23(14+9)/23(14+9) +2(1+1)/23(14+9) +5 (2+3), Note: *E: Elective Coun				e Course		

Semester IV

SN	Course Code	Title of the Course		EACH CHE		CREDITS	CONTACTS HRS/WK	
SIN	Course Code	Title of the Course	L	Т	P	CREDITS		
1	AGRON- 221	Crop Production Technology - II (Rabi crops)	1	0	1	2	3	
2	AENG-221	Renewable Energy and Green Technology	1	0	1	2	3	
3	HORT- 221	Production Technology for Ornamental Crops, MAP and Landscaping	1	0	1	2	3	
4	SS- 221	Problematic Soils and their Management	2	0	0	2	2	
5	HORT-221	Production Technology for Fruit and Plantation Crops	1	0	1	2	3	
6	GPB- 221	Principles of Seed Technology	1		2	3	5	
7	AGRON- 222	Farming System & Sustainable Agriculture	1	0	0	1	1	
8	AE- 221	Agricultural Marketing, Trade and Prices	2	0	1	3	4	
9	AGRON-223	Introductory Agro-meteorology & Climate Change	1	0	1	2	3	
10	EDUT - 200	Education Tour **	0	0	2	2	4	
11a	ELCT-FST-221	Processing Technology of Cereals	2	0	1	3	4	
11b	ELCT- GPB-221	Micro propagation Technologies	1	0	2	3	5	
11c	ELCT-HORT-221	Hi-tech. Horticulture *	2	0	1	3	4	
11d	ELCT-AE-221	Agribusiness Management *	2	0	1	3	4	
11e	ELCT–AGRON- 221	Weed Management *	2	0	1	3	4	
11f	ELCT-AENG-221	Remote Sensing and GIS Applications *	2	0	1	3	4	
12	BNCC04GE03	National Cadet Corps IV*	2	0	1	3	4	
Т	Total Credits 19(11+8) + 3* +2**							

Note: * E: Elective Courses, ** NC: Nongradial Course ¹ From Sr. No. 11a to 11f , students have to opt any one of their choice

Semester V

SN	Course Code	Title of the Course		EACHII CHEM		CREDITS	CONTACTS HRS/WK
			L	T	P		
1	AGRON- 312	Practical Crop Production-I (Kharif Crops)	0	0	2	2	4
2	PP- 312	Principles of Integrated Pest and Disease Management	2	0	1	3	4
3	SS- 311	Manures, Fertilizers and Soil Fertility Management	2	0	1	3	4
4	ENT-311	Pests of Crops and Stored Grain and their Management	2	0	1	3	4
5	PP- 311	Diseases of Field and Horticultural Crops and their Management -I	2	0	1	3	4
6	GPB- 311	Crop Improvement-I (Kharif Crops)	1	0	1	2	3
7	AEXT- 311	Entrepreneurship Development and Business Communication	1	0	1	2	3
8	AGRON- 311	Geoinformatics and Nano- technology and Precision Farming	1	0	1	2	3
9	GPB- 312	Intellectual Property Rights	1	0	0	1	1
10a	ELCT-FST-311	Processing Technology of Fruits and Vegetables	2	0	1	3	4
10b	ELCT- GPB- 311	Commercial Plant Breeding	1	0	2	3	5
10c	ELCT-HORT- 311	Landscaping	2	0	1	3	4
10d	ELCT-AE-311	Agricultural Journalism	2	0	1	3	4
10e	ELCT-ENT- 311	Biopesticides & Biofertilizers	2	0	1	3	4
10f	ELCT-AENG- 311	Artificial Intelligence	3	0	0	3	3
11	BNCC05GE02	National Cadet Corps V	2	0	3	5	8
Total Cre	dits	21(12-	+ 09) +	3*/21(1	2+09)	+ 5*	

Note: * E: Elective Courses,

¹ From Sr. No. 10a to 10f, students have to opt any one of their choice

Semester VI

SN	Course Code	Title of the Course		ACH CHE	ING ME	CREDITS	CONTACTS HRS/WK
DI (Course Coue	The of the course	L	Т	P	CREDITS	
1	AGRON-323	Practical Crop Production-II (Rabi Crops)	0	0	2	2	4
2	AGRON-321	Rainfed Agriculture and Watershed Management	1	0	1	2	3
3	AENG-321	Protected Cultivation and Secondary Agriculture	1	0	1	2	3
4	PP-321	Diseases of Field and Horticultural Crops and their Management - II	2	0	1	3	4
5	HORT-321	Post-harvest Management and Value Addition of Fruits and Vegetables	1	0	1	2	3
6	ENT-321	Management of Beneficial insects	1	0	1	2	3
7	GPB- 321	Crop Improvement-II (Rabi Crops)	1	0	1	2	3
8	AGRON-322	Principles of Organic Farming	1	0	1	2	3
9	AE-321	Farm Management, Production and Resource Economics	1	0	1	2	3
10	BIOCHEM- BT- 321	Principles of Food Science and Nutrition	2	0	0	2	2
11a	ELCT-FST- 321	Food Safety and Standards	2	0	1	3	4
11b	ELCT- GPB- 321	Molecular Biology	2	0	1	3	4
11c	ELCT-HORT- 321	Protected Cultivation	2	0	1	3	4
11d	ELCT-AEXT- 321	System Simulation and Agroadvisory	2	0	1	3	4
11e	ELCT-ENT- 321	Agrochemicals	2	0	1	3	4
11f	ELCT-AENG- 321	Information Technology for Land and Water Management	2	0	1	3	4
12	BNCC06GE03	National Cadet Corps VI	2	0	1	3	4
Total Cree	dits	2	1 (11	+ 10) + 3*		

Note: * E: Elective Courses,

¹ From Sr. No. 11a to 11f, students have to opt any one of their choice

Semester VII

Rural Agricultural Work Experience and Agro-industrial Attachment (RAWE &AIA)

Sr.NO.	ACTIVITIES	NO. OF WEEKS	CREDIT HOURS
1	General orientation & On campus training by different	1	
	faculties		
	Village attachment	8	14
2	Unit attachment in Univ. / College. KVK/ Research	5	
	Station Attachment		
	Plant Clinic	2	02
3	Agro-Industrial Attachment	3	04
4	Project Report Preparation, Presentation and Evaluation	1	-
	Total weeks for RAWE & AIA	20	20

Semester VIII

Experiential Learning Programme (ELP)/ Hands On Training (HOT)

Sr. No	Title of the module	Code	Credits
1	Agribusiness and IndustrialManagement*	ELP- ABM-401	10(0+10)
2	Industrial Training on ProductDevelopment and Marketing*	ELP- ABM-402	10(0+10)
3	Agricultural Heritage and Agritourism	ELP- ABM-403	10(0+10)
4	Agriculture Waste Management	ELP-AGRON- 401	10(0+10)
5	Organic Production Technology	ELP- AGRON-402	10(0+10)
6	Commercial Crop Production Technology (Agronomical Crops)	ELP-AGRON- 403	10(0+10)
7	Commercial Beekeeping	ELP-ENT-401	10(0+10)
8	Production Technology for Bioagentsand Biofertilizer	ELP-ENT-402	10(0+10)
9	Seed Production and Technology	ELP-GPB-401	10(0+10)
10	Seed Testing and Quality Assessment	ELP-GPB-402	10(0+10)
11	Commercial Horticulture (Vegetable and Spices Crop Production)	ELP-HORT-401	10(0+10)
12	Floriculture and Landscaping	ELP- HORT-402	10(0+10)
13	Processing of Fruits and Vegetables forValue Addition	ELP- HORT-403	10(0+10)
14	Commercial Nursery Establishment and Mass Multiplication of HorticulturalCrops	ELP-HORT-404	10(0+10)
15	Protected Cultivation of High ValueHorticulture Crops	ELP- HORT-405	10(0+10)
16	Medicinal and Aromatic Crop Production	ELP-HORT-406	10(0+10)
17	Mushroom Cultivation Technology	ELP-PP-401	10(0+10)
18	Plant Health Diagnosis and Management	ELP-PP-402	10(0+10)
19	Soil, Plant, Water and Seed Testing	ELP-SS-401	10(0+10)
20	Agriculture Kiosk and Rural Development	ELP-AEXT-401	10(0+10)
21	Introduction Indigenous Technical Knowledge (ITK)	ELP-AEXT-402	10(0+10)
22	Integrated Fish Farming	ELP-FSC-401	10(0+10)
23	Multimedia and Graphic Designing & Production of Information Materials	ELP-JMC-401	10(0+10)
24	Processing, Preservation and Value Addition in Ornamental, Medicinal and Aromatic plants	ELP-HORT-407	10(0+10)
25	Agri-based Software Design	ELP-AENG-401	10(0+10)
26	Poultry Production Technology	ELP-AHS-401	10(0+10)
otal redits	20(0+20) (students have to opt any two given ELP module)		

