



**B.Sc.(HONS.)AGRICULTURE
PROGRAMME SCHEME
SCHOOL OF AGRICULTURE,
ITM UNIVERSITY, GWALIOR, MADHYA
PRADESH 474001**

SCHEME OF THE PROGRAMME

Academic Programme Semester-wise distribution of courses Agriculture (Scheme)

First year

I Semester

S. No	Course Code	Course Title	Credit Hours
1	AFC-111	Deeksharambh (Induction cum Foundation course)	1 week (NG) Non-gradial
2	SEC-I	Biofertilizer and biopesticide production*	2(0+2)
3	SEC-II	Mushroom production technology*	2(0+2)
4	EXT-112	Communication Skills	2(1+1)
5	AGRON-112	Farming-based livelihood systems	3(2+1)
6	EXT-111	Rural Sociology and Educational Psychology	2 (2+0)
7	AGRON-111	Fundamentals of Agronomy	3(2+1)
8	SS-111	Fundamentals of Soil Science	3(2+1)
9	HORTI-111	Fundamentals of Horticulture	3(2+1)
10a	NSS-1	National Service Scheme	1(0+1)
10b	NCC-1	National Cadet Corps	1(0+1)
11	STAT-111	Introductory mathematics (need-based)	1(1+0) Non gradial

II Semester

1	SEC-III	Seed Production Technology*	2(0+2)
2	SEC-IV	Post-harvest processing technology*	2(0+2)
3	EXT-121	Personality Development	2(1+1)
4	AGM-121	Environmental Studies and Disaster Management	3(2+1)
5	SS-121	Soil Fertility Management	3(2+1)
6	ENT-121	Fundamentals of Entomology	3(2+1)
7	AH-121	Livestock and Poultry Management	2(1+1)
8	PP-121	Fundamentals of Plant Pathology	3(2+1)
9a	NSS-II	National Service Scheme	1(0+1)
9b	NCC-II	National Cadet Corps	1(0+1)

Second year

III Semester

1	SEC-V	Beneficial insect farming*	2(0+2)
2	AE-211	Entrepreneurship Development and Business Communication	3 (2+1)
3	PE-211	Physical Education, First Aid, Yoga Practices and Meditation	2(0+2)
4	GPB-211	Principles of Genetics	3(2+1)
5	AGRON-211	Crop Production Technology-I (Kharif crops)	3(1+2)
6	HORTI-211	Production Technology of Fruit and Plantation Crops	2 (1+1)
7	EXT-211	Fundamentals of Extension Education	2(1+1)
8	NEM-211	Fundamentals of Nematology	2(1+1)
9	AGRON-212	Principles and Practices of Natural Farming	2(1+1)

IV Semester

1	SEC-VI	Horticulture nursery management*	2(0+2)
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2	AS-221	Agricultural Informatics and Artificial Intelligence	3(2+1)
3	HORTI-221	Production Technology of Vegetables and Spices	2(1+1)
4	AE-221	Principles of Agricultural Economics and Farm Management	2(2+0)
5	AGRON-221	Crop Production Technology-II (Rabi Crops)	3(1+2)
6	AENG-221	Farm Machinery and Power	2 (1+1)
7	AGRON-222	Water Management	2 (1+1)
8	SS-221	Problematic Soils and their management	2(1+1)
9	GPB-221	Basics of Plant Breeding	3(2+1)

Third year

V Semester

1	AE-311	Agricultural Marketing and Trade	3 (2+1)
2	AGM-311	Introduction to Agro-meteorology	2(1+1)
3	CP-311	Fundamentals of Crop Physiology	3(2+1)
4	ENT-311	Pest Management in Crops and Stored Grains	3 (2+1)
5	PP-311	Diseases of Field & Horticultural Crops & their Management	3(2+1)
6	GPB-311	Crop Improvement (kharif crops) - I	2 (1+1)
7	AGRON-311	Weed Management	2(1+1)
8	HORTI-311	Ornamental Crops, MAPs and Landscaping	2 (1+1)
9	AGRON-312	Introductory Agroforestry	2 (1+1)

VI Semester

1	ABT-321	Fundamentals of Agri Biotechnology	3(2+1)
2	AS-321	Basic and Applied Agri Statistics	3(2+1)
3	GPB-321	Crop Improvement (Rabi crops) - II	2(1+1)
4	AENG-321	Renewable energy in Agriculture and Allied Sector	2(1+1)
5	AGRON-321	Dryland agriculture/ Rainfed agriculture and watershed management	2(1+1)
6	PP-321	Agricultural Microbiology and Phyto-remediation	2(1+1)
7	AE-321	Agricultural Finance & Cooperation	2(1+1)
8	BIOCHEM-321	Essentials of Plant Biochemistry	3(2+1)
9	GPB-322	Fundamentals of Seed Science & Technology	2(1+1)

Fourth year

VII Semester

5 Elective Courses (major or minor) each of 4 (3+1) credits for B.Sc. (Hons) Agriculture degree			
1	AE-411	Agri-Business Management	4 (3+1)
2	AGRON-411	Management of natural resources	4 (3+1)
3	ENT-411	Agrochemicals	4 (3+1)
4	AEXT-411	Agricultural Journalism	4 (3+1)
5	HORT-411	Landscaping	4 (3+1)
6	GPB-411	Commercial Plant Breeding	4 (3+1)
7	FST-411	Food safety and standards	4 (3+1)
8	ENT-412	Bioformulation and Nano formulation	4 (3+1)
9	PP-411	Biopesticides and Biofertilizers	4 (3+1)
10	AGRON-412	System Simulation and Agro Advisory	4 (3+1)

11	HORT-412	Hi-tech Horticulture	4 (3+1)
12	HORT-413	Protected cultivation	4 (3+1)
13	AGM-411	Climate Resilient Agriculture	4 (3+1)
14	GPB-412	Biotechnology of Crop Improvement	4 (3+1)
15	AENG-411	Geoinformatics and Remote Sensing, precision farming	4 (3+1)
16	GPB-413	Micro-propagation Technologies	4 (3+1)
17	SST-411	Commercial Seed Production	4 (3+1)
18	AGRON-413	Principles and Practices of Organic Farming/ Conservation Agriculture	4 (3+1)
19	FSN-411	Food Science and Nutrition	4 (3+1)
20	PHT-411	Post-Harvest Technology and Value Addition	4 (3+1)

VIII Semester

For B.Sc. (Hons)Agriculture Degree Student READY:RAWE/ Industrial Attachment /Experiential Learning / Hands-on Training/ Project Work / Internship	20
Total	167
*Online courses	10
Grand Total	167+10=177
* From the bouquet of Skill Enhancement Course (SEC) modules	