

**Annexures- “I to IX”**  
**PG-CET-2025 Syllabus**  
**as per the DICC & V<sup>th</sup> Deans’**  
**Committee Recommendations**  
*for*  
**Online Application of PG-CET-2025**

**PG-CET-2025 Syllabus**  
as per the V<sup>th</sup> Deans' Committee Recommendations

**UG Degree Programs' Syllabus-wise Weightages for the PG-CET Subject (Faculty)**  
**(Total 200 MCQs for Total 200 Marks)**

PG-CET Subject (Faculty)		UG Degrees' Syllabus-wise Weightages (%)								
		B.Sc. (Hons.) Agriculture	B.Sc. (Hons.) Horticulture	B.Sc. (Hons.) Forestry	B.Tech. (Agril. Engineering)	B.Tech. (Biotechnology)	B.Tech. (Food Technology)	B.Sc. (Hons.) Agri. Business Mgmt.	B.F.Sc. / Fisheries Sci.	B.Sc. (Hons.) Community Sci.
A	Agriculture	80	3.5	3	3	3	3	3	-	1.5
B	Horticulture	10	80	10	-	-	-	-	-	-
C	Forestry	10	10	80	-	-	-	-	-	-
D	Agricultural Engineering	-	-	-	100	-	-	-	-	-
E	Food Technology	-	-	-	-	-	100	-	-	-
F	Community Science	-	-	-	-	-	-	-	-	100
G	Fisheries Science	-	-	-	-	-	-	-	100	-
H	Molecular Biology and Biotechnology	8	3	3	-	80	3	-	3	-
I	Agri. Business Management	5	5	5	5	5	5	60	5	5

**PG-CET-2025 Syllabus**  
as per the V<sup>th</sup> Deans' Committee Recommendations

**Annexure: "I"**

**Syllabus for CET-Subject (Faculty): AGRICULTURE**

(Total 200 MCQs for Total 200 Marks)

**Section "A": Syllabus of following courses of B.Sc. (Hons.) Agriculture for 80%**

Sr. No.	Course No.	Course Title	Credits	Weightage (80%)
AGRONOMY				
1	AGRO 111	Fundamentals of Agronomy-I	2(1+1)	12.5% (25 Questions)
2	AGRO 112	Introductory Agro-meteorology and Climate change	2(1+1)	
3	AGRO 123	Fundamentals of Agronomy-II	2(1+1)	
4	AGRO 234	Crop Production Technology-I (Kharif crops)	2(1+1)	
5	AGRO 235	Rainfed Agriculture and Watershed Management	2(1+1)	
6	AGRO 246	Crop Production Technology-II (Rabi crops)	2(1+1)	
7	AGRO 247	Farming System and Sustainable Agriculture	1(1+0)	
8	AGRO 248	Principles of Organic Farming	2(1+1)	
9	AGRO 359	Practical Crop Production-I (Kharif crops)	1(0+1)	
11	AGRO 3611	Practical Crop Production-II (Rabi crops)	1(0+1)	
12	AGRO 3612	Geo-informatics, Nano-technology and Precision Farming	2(1+1)	
AGRIL. BOTANY				
13	GPB 121	Fundamentals of Genetics	3(2+1)	12% (24 Questions)
14	BOT 121	Fundamentals of Crop Physiology	2(1+1)	
15	GPB 232	Fundamentals of Plant Breeding	2(1+1)	
16	GPB 243	Principles of Seed Technology	3(1+2)	
17	GPB 355	Crop Improvement – I (Kharif Crops)	2(1+1)	
18	BOT 353	Intellectual Property Right	1(1+0)	
19	GPB 366	Crop Improvement – II (Rabi Crops)	2(1+1)	
20	ESDM 231	Environmental Studies and Disaster Management	3(2+1)	
AGRIL. ENTOMOLOGY				
21	ENTO 121	Fundamentals of Entomology	2(1+1)	5.5% (11 Questions)
22	ENTO 232	Insect Ecology and Integrated pest Management	2(1+1)	
23	ENTO 243	Pest of Horticultural Crops and their Management	2(1+1)	
24	ENTO 354	Pests of Crops and Stored Grain and their Management	2(1+1)	
25	ENTO 365	Management of Beneficial Insects	2(1+1)	
HORTICULTURE				
26	HORT 111	Fundamentals of Horticulture	2(1+1)	10.5% (21 Questions)
27	HORT 232	Production Technology for Vegetables and Spices	2(1+1)	
28	HORT 243	Production Technology for Fruit and Plantation Crops	2(1+1)	
29	HORT 354	Production Technology for Ornamental Crops, MAP and Landscaping	2(1+1)	
30	HORT 366	Post-harvest Management and Value Addition of Fruits and Vegetables	2(1+1)	

... Syllabus for CET-Faculty: AGRICULTURE

AGRIL. ECONOMICS				
31	ECON 121	Fundamentals of Agricultural Economics	2(2+0)	8% (16 Questions)
32	ECON 242	Agricultural Finance and Cooperation	3(2+1)	
33	ECON 353	Agricultural Marketing Trade and Prices	3(2+1)	
34	ECON 365	Farm Management, Production and Resource Economics	2(1+1)	
35	COMP 231	Agri-Informatics	2(1+1)	
36	STAT 231	Statistical Methods	2(1+1)	
AGRIL. EXTENSION				
37	EXTN 111	Rural Sociology & Educational Psychology	2(2+0)	6.5% (13 Questions)
38	EXTN 122	Fundamentals of Agricultural Extension Education	3(2+1)	
39	EXTN 123	Communication Skills and personality Developments (Common Course)	2(1+1)	
40	EXTN 355	Entrepreneurship Development and Business Communication (Common Course)	2(1+1)	
AGRIL. ENGINEERING				
41	ENGG 121	Soil and Water Conservation Engineering	2(1+1)	4% (8 Questions)
42	ENGG 232	Farm Machinery and Power	2(1+1)	
43	ENGG 243	Renewable Energy and Green Technology	2(1+1)	
44	ENGG 364	Protected Cultivation and secondary Agriculture	2(1+1)	
PLAT PATHOLOGY				
45	MIBO 111	Introductory Microbiology	2(1+1)	9% (18 Questions)
46	PATH 121	Fundamentals of Plant Pathology	3(2+1)	
47	PATH 232	Principles of Integrated Disease Management	2(1+1)	
48	PATH 354	Diseases of Field and Horticultural Crops and their Management – I	3(2+1)	
49	PATH 365	Diseases of Field and Horticultural Crops and their Management-II	3(2+1)	
SOIL SCIENCE AND AGRIL. CHEMISTRY				
50	SSAC 111	Fundamentals of Soil Science	3(2+1)	7% (14 Questions)
51	SSAC 242	Problematic Soils and their Management	2(1+1)	
52	SSAC 353	Manures, Fertilizers and Soil Fertility Management	3(2+1)	
53	BIOCHM 231	Fundamentals of plant biochemistry and biotechnology	3(2+1)	
ANIMAL HUSBANDRY AND DAIRY SCIENCE				
54	AHDS 111	Livestock Production and Management	2 (1+1)	4% (8 Questions)
55	AHDS 242	Livestock Breeding and Nutrition	2(1+1)	
56	AHDS 353	Technology of Milk and Milk Products	2(1+1)	
57	AHDS 364	Sheep, Goat and Poultry Production	2(1+1)	
58	FST 362	Principles of Food Science and Nutrition	2(2+0)	1% (2 Questions)

... Syllabus for CET-Faculty: AGRICULTURE

**Section “B”: Syllabus of following courses of B.Sc. (Hons.) Horticulture for 3.5% weightage**

Sr. No.	Course No.	Course Title	Credits	Weightage (3.5%)
1	H/FS 111	Fundamentals of Horticulture	3 (2+1)	1.5% (3 Questions)
2	H/FS 122	Plant Propagation and Nursery Management	2 (1+1)	
3	H/FS 233	Tropical and Subtropical Fruits	3 (2+1)	
4	H/FS 359	Orchard and Estate Management	2 (1+1)	
5	H/FS 358	Plantation Crops	3 (2+1)	
6	H/FS 234	Temperate Fruit crops	2 (1+1)	
7	H/FS 235	Weed Management in Horticultural Crops	2 (1+1)	
8	H/FS 246	Breeding of fruit and plantation crops	3 (2+1)	
9	H/FS 247	Dryland Horticulture	2 (1+1)	
10	H/VS 232	Tropical and Subtropical Vegetable crops	3 (2+1)	1% (2 Questions)
11	H/VS 243	Spices and Condiments	3 (2+1)	
12	H/VS 356	Breeding of Vegetable Tuber and Spice Crops	3 (2+1)	
13	H/VS 367	Seed Production of Vegetable Tuber and Spice Crops	3 (2+1)	
14	H/VS 245	Temperate Vegetable crops	2 (1+1)	
15	H/VS 121	Potato and Tuber Crops	2 (1+1)	
16	H/VS 244	Precision Farming and Protected Cultivation	3 (2+1)	0.5% (1 Question)
17	H/PHT 362	Post-harvest Management of Horticultural Crops	3 (2+1)	
18	H/PHT 363	Processing of Horticultural Crops	3 (1+2)	
19	H/PHT 231	Fundamentals of Food and Nutrition	2 (1+1)	0.5% (1 Question)
20	H/FL 242	Ornamental Horticulture	3 (2+1)	
21	H/FL 364	Breeding and Seed Production of Ornamental Crops	3 (2+1)	
22	H/FL 353	Principles of Landscape Architecture	1 (0+1)	
23	H/FL 231	Commercial Floriculture	3 (2+1)	

**Section “C”: Syllabus of following courses of B.Sc. (Hons.) Forestry for 3% weightage**

Sr. No.	Course No.	Course Title	Credits	Weightage (3%)
1	SA 122	Principles of Agroforestry	3(2+1)	0.5% (1 Question)
2	SA 233	Theory and Practice of Silviculture	3(2+1)	
3	SA 354	Agroforestry Systems and Management	3(2+1)	
4	SA 365	Silviculture of Indian Trees	3(2+1)	
5	SA 486	Plantation Forestry	3(2+1)	
6	FB 111	Plant Physiology	3(2+1)	0.5% (1 Question)
7	FB 123	Dendrology	3(2+1)	
8	FB 124	Seed Technology & Nursery Management	3(2+1)	
9	FB 235	Tree Improvement	3(2+1)	

... Syllabus for CET-Faculty: AGRICULTURE

10	NR 121	Recreation and Urban Forestry	3(2+1)	0.5% (1 Question)
11	NR 232	Forest Extension and Community Forestry	3(2+1)	
12	NR 243	Forest Mensuration	3(2+1)	
13	NR 354	Forest Management	3(2+1)	
14	NR 365	Forest Inventory and Yield Prediction	2 (1+1)	
15	NR 486	Forest Laws, Legislation and Policies	2 (2+0)	
16	FP 231	Wood Anatomy	3(2+1)	1% (2 Questions)
17	FP 232	Ethnobotany, Medicinal and Aromatic plants	3(2+1)	
18	FP 243	Logging and Ergonomics	3(2+1)	
19	FP 354	Wood Products and Utilization	3(2+1)	
20	FP 365	Wood Science and Technology	3(2+1)	
21	FP 366	Non-Timber Forest Products	3(2+1)	
22	FP 487	Certification of Forest Products	2 (2+0)	
23	WL 121	Wildlife Biology	3(2+1)	0.5% (1 Question)
24	WL 122	Forest Ecology & Biodiversity	3(2+1)	
25	WL 243	Wildlife Management	2 (1+1)	
26	WL 354	Restoration Ecology	3 (2+1)	
27	WL 365	Geomatics	3 (1+2)	
28	WL 486	Ornithology & Herpetology	3 (2+1)	

**Section “D”: Syllabus of following courses of B.Tech. (Biotech.) for 3% weightage**

Sr. No.	Course No.	Course Title	Credits	Weightage (3%)
1	BT 111	Cell Biology	2 (2+0)	3% (6 Questions)
2	BT 112	Basic Genetics	3(2+1)	
3	BT 113	Introduction to Biotechnology	3(2+1)	
4	BT 124	Plant Tissue Culture	3(2+1)	
5	BT 125	Molecular Biology	3(2+1)	
6	BT 236	Recombinant DNA Technology	3(2+1)	
7	BT 247	Introductory Bioinformatics	3(2+1)	
8	BT 248	Plant Genetic Transformation	3(2+1)	
9	BT/ECE 241	Electronics and Instrumentation in Biotechnology	2 (1+1)	
10	BT 249	Classical and Molecular Cytogenetics	3(2+1)	
11	BT 3510	Immunology	3(2+1)	
12	BT 3511	Molecular Genetics	2 (2+0)	
13	BT 3512	Nanobiotechnology	2 (2+0)	
14	BT 3513	Animal Biotechnology	4 (3+1)	
15	BT 3514	Molecular Marker Technology	2 (2+0)	
16	BT 3515	Genomics and Proteomics	3 (3+0)	
17	BT 3516	IPR, Biosafety and Bioethics	2 (2+0)	
18	BT 3617	Computational Biology	3 (2+1)	
19	BIOCHEM 241	General Biochemistry	4 (3+1)	
20	BIOCHEM 352	Enzymology and Enzyme Technologies	3 (2+1)	

**Section “E”: Syllabus of following courses of B.Sc. (A.B.M.) for 3% weightage**

Sr. No.	Course No.	Course Title	Credits	Weightage (3%)
AGRICULTURAL ECONOMICS				
1	ECON 111	Agricultural and Natural Resource Economics	3(2+1)	0.5% (1 Question)
2	ECON 122	Money, Banking and International Trade	3(2+1)	
3	ECON 233	Principles of Economic Theory	3(2+1)	
4	ECON 244	Agril. Co-operation, Institutions and Management	3(2+1)	
5	ECON 355	Structure and Dynamics of Indian Agriculture	3(2+1)	
6	ECON 356	Farm Management and Production Economics	3(2+1)	
7	ECON 367	Financial Management in Agribusiness	3(2+1)	
AGRI. BUSINESS MANAGEMENT				
8	ABM 111	Principles of Management and Agribusiness	2 (1+1)	2% (4 Questions)
9	ABM 122	Agro-based Industrialization	2 (1+1)	
10	ABM 233	Agri. Informatics	2 (1+1)	
11	ABM 234	Human Resource Management and development	3 (2+1)	
12	ABM 245	Office Procedures for Agribusiness	1 (0+1)	
13	ABM 246	Organizational Behaviour for Business Management	2 (2+0)	
14	ABM 357	Strategic Business Management	2 (1+1)	
15	ABM 358	Production Management, Planning and Control	2 (1+1)	
16	ABM 359	Inventory and Risk Management	2 (1+1)	
17	ABM 3510	Agro-processing Management	2 (1+1)	
18	ABM 3611	Managerial Accounting	2 (1+1)	
19	ABM 3612	Market Survey and Price Analysis	2 (0+2)	
20	ABM 3613	Supply Chain Management	2 (1+1)	
AGRICULTURAL MARKETING				
21	MKT 121	Introduction to Agricultural marketing	2(1+1)	0.5% (1 Question)
22	MKT 122	Marketing Institutions and Organizations	2(1+1)	
23	MKT 233	Principles of Marketing Management	2(1+1)	
24	MKT 234	Market and Trade Acts	2 (2+0)	
25	MKT 245	Rural Marketing and Market Infrastructure	3 (2+1)	
26	MKT 246	Input Marketing Management	2(1+1)	
27	MKT 357	Product Promotion Methods	2(1+1)	
28	MKT 358	Trading of Agricultural Commodities-I	2(1+1)	
29	MKT 369	Trading of Agricultural Commodities-II	2(1+1)	
30	MKT 3610	Commodity Markets	2(1+1)	



**Section “F”: Syllabus of following courses of B.Tech. (Agril. Engg.) for 3% weightage**

Sr. No.	Course No.	Course Title	Credits	Weightage (3%)
1	FMPE 123	Workshop Technology	2(1+1)	0.5% (1 Question)
2	FMPE 234	Farm Power and Automotive Engines	2(1+1)	
3	FMPE 235	Theory of Machines	2(1+1)	
4	FMPE 246	Tractor Systems and Controls	2(1+1)	
5	FMPE 247	Machine Design	2(1+1)	
6	FMPE 358	Farm Machinery and Equipment-I	2(1+1)	
7	FMPE 3611	Farm Machinery and Equipment-II	2(1+1)	
8	FMPE 3612	Tractor & Farm Machinery Design	3 (2+1)	
9	SWCE 121	Surveying and Leveling	3 (1+2)	0.5% (1 Question)
10	SWCE 232	Soil Mechanics	2 (1+1)	
11	SWCE 233	Watershed Hydrology	3 (2+1)	
12	SWCE 244	Soil and Water Conservation Engineering	3 (2+1)	
13	SWCE 355	Water Harvesting and Soil Conservation Structures	3 (2+1)	
14	SWCE 366	Watershed Planning and Management	2 (1+1)	
15	IDE 231	Fluid Mechanics and Open Channel Hydraulics	3(2+1)	0.5% (1 Question)
16	IDE 242	Irrigation Engineering	3(2+1)	
17	IDE 353	Groundwater, Wells and Pumps	3(2+1)	
18	IDE 354	Drainage Engineering	3(2+1)	
19	IDE 365	Canal Irrigation Management	2 (1+1)	
20	IDE 366	Sprinkler and Micro Irrigation System	2 (1+1)	
21	PFE 111	Thermodynamics	2(1+1)	0.5% (1 Question)
22	PFE 122	Heat and Mass Transfer	2(1+1)	
23	PFE 233	Engineering Properties of Agricultural Produce	2(1+1)	
24	PFE 244	Post Harvest Engineering of Cereals, Pulses and Oilseed	3(2+1)	
25	PFE 355	Dairy and Food Engineering	3(2+1)	
26	PFE 366	Post Harvest Engineering of Horticultural Crops	2 (1+1)	
27	PFE 367	Refrigeration and Air Conditioning	2 (1+1)	
28	REE 111	Engineering Chemistry	2 (1+1)	0.5% (1 Question)
29	REE 122	Electrical Machines and Power Utilization	3(2+1)	
30	REE 243	Fundamentals of Renewable Energy Sources	3(2+1)	
31	REE 354	Renewable Power Sources	3(2+1)	
32	REE 365	Bio-energy Systems: Design and Applications	3(2+1)	
33	FS 111	Engineering Mechanics	3(2+1)	0.5% (1 Question)
34	FS 122	Strength of Materials	2(1+1)	
35	FS 233	Theory of Structures	2(1+1)	
36	FS 244	Building Construction and Cost Estimation	2(1+1)	
37	FS 355	Agricultural Structures, Storage Engineering and Environmental Control	3(2+1)	



... Syllabus for CET-Faculty: AGRICULTURE

Section “G”: Syllabus of following courses of B.Tech. (Food Technology) for 3% weightage

Sr. No.	Course No.	Course Title	Credits	Weightage (3%)
1	FPT 111	Principles of Food Processing	3 (2+1)	1% (2 Questions)
2	FPT 112	Postharvest Management of Fruits and Vegetables	3 (2+1)	
3	FPT 123	Cereal Processing	3 (2+1)	
4	FPT 124	Food Packaging Technology	2 (1+1)	
5	FPT 235	Legumes and Oilseeds Technology	3 (2+1)	
6	FPT 236	Meat, Poultry and Fish Technology	3 (2+1)	
7	FPT 237	Processing Technology of Beverages	2 (1+1)	
8	FPT 238	Processing of Milk and Milk Products	3 (2+1)	
9	FPT 249	Wheat Milling and Baking Technology	3 (2+1)	
10	FPT 2410	Fruits and Vegetables Processing	3 (2+1)	
11	FPT 2411	Processing of Spices and Plantation Crops	3 (2+1)	
12	FPT 3512	Confectionary and Snacks Technology	3 (2+1)	
13	FPT 3513	Food Extrusion Technology	2 (1+1)	
14	FPT 3614	Food Quality and Sensory Evaluation	3 (2+1)	
15	FE 111	Engineering Drawing and Graphics	3 (1+2)	0.5% (1 Question)
16	FE 112	Fluid Mechanics	3 (2+1)	
17	FE 113	Mathematics	2 (2+0)	
18	FE 124	Heat and Mass Transfer	3 (2+1)	
19	FE 125	Statistical Methods and Numerical Analysis	2 (1+1)	
20	FE 236	Energy Generation and Conservation	3 (2+1)	
21	FE 237	Unit Operations in Food Processing – I	3 (2+1)	
22	FE 248	Unit Operations in Food Processing – II	3 (2+1)	
23	FE 249	Post Harvest and Storage Engineering	3 (2+1)	
24	FE 3510	Biochemical Engineering	3 (2+1)	
25	FE 3511	Food Refrigeration and Cold Storage	3 (2+1)	
26	FE 3612	Food Processing Equipment Design	2 (1+1)	
27	FE 3613	Food Plant Design and Layout	3 (2+1)	
28	FE 3614	Instrumentation and Process Control	3 (2+1)	
29	FCN 123	Human Nutrition	3 (2+1)	0.5% (1 Question)
30	FCN 124	Food Chemistry of Macronutrients	3 (2+1)	
31	FCN 235	Food Chemistry and Micronutrients	3 (2+1)	
32	FCN 246	Food Additives and Preservatives	2 (1+1)	
33	FCN 357	Instrumental Techniques in Food Analysis	2 (0+2)	
34	FCN 368	Enzymes in Food Industry	2 (1+1)	
35	FMS 111	General Microbiology	3 (2+1)	0.5% (1 Question)
36	FMS 122	Food Microbiology	3 (2+1)	
37	FMS 233	Industrial Microbiology	3 (2+1)	
38	FMS 244	Food Safety and Microbial Standards	3 (2+1)	
39	FMS 355	Food Biotechnology	3 (2+1)	
40	FMS 366	Food Plant Sanitation	3 (2+1)	
41	FMS 367	Quality Assurance and Certification	3 (2+1)	
42	FBM 122	Information and Communication Technology	2 (1+1)	0.5% (1 Question)
43	FBM 243	ICT Application in Food Industry	3 (1+2)	
44	FBM 354	Entrepreneurship Development	3 (2+1)	
45	FBM 355	Business Management and Economics	2 (2+0)	
46	FBM 356	Food Laws and Regulations	3 (2+1)	
47	FBM 367	Project Preparation and Management	2 (1+1)	
48	FBM 368	Marketing Management and International Trade	2 (2+0)	
49	FBM 369	Communication Skills and Personality Development	2 (1+1)	

... Syllabus for CET-Faculty: AGRICULTURE

Section “H”: Syllabus of following courses of B.Sc. (Hons.) Community Science for 1.5% weightage

Sr. No.	Course No.	Course Title	Credits	Weightage (1.5%)
HUMAN DEVELOPMENT AND STUDIES				1.5% (3 Questions)
1	HDS 111	Fundamentals of Human Development	3 (2+1)	
2	HDS 122	Marriage and Family Dynamics	3 (2+1)	
3	HDS 233	Life-Span Development	4 (2+2)	
4	HDS 244	Educational Psychology and Early Childhood Education	4 (2+2)	
5	HDS 355	Developmental Challenges in Children	3 (2+1)	
6	HDS 366	Family Counseling and Child Welfare	3 (2+1)	
7	HDS 367	Education and Counseling for Parents and Community	3 ( 0+3)	
RESOURCE MANAGEMENT AND CONSUMER SCIENCE				
8	RMCS 111	Fundamentals of Art and Design	3 (1+2)	
9	RMCS 122	System Dynamics and Management of Resources	3 (2+1)	
10	RMCS 233	Financial Management and Consumer Education	3 (2+1)	
11	RMCS 244	Housing and Space Management	3 (2+1)	
12	RMCS 245	Ergonomics and Appropriate Technologies	3 (1+2)	
13	RMCS 356	Residential and Commercial Space Design	3 (2+1)	
14	RMCS 357	Event Management	3 (0+3)	
15	RMCS 368	Entrepreneurship Development and Business Management	3 (2+1)	
FOOD SCIENCE AND NUTRITION				
16	FSN 111	Food Science and Processing	3 (2+1)	
17	FSN 122	Principles of Human Nutrition	3 (2+1)	
18	FSN 233	Food Standards and Quality Control	3 (2+1)	
19	FSN 234	Food Preservation and Storage	2 (0+2)	
20	FSN 245	Normal Nutrition	2 (1+1)	
21	FSN 356	Therapeutic Nutrition	3 (2+1)	
22	FSN 367	Food Analysis	3 (1+2)	
23	FSN 368	Community Nutrition and Education	3 (2+1)	
TEXTILES AND APPAREL DESIGNING				
24	TAD 111	Fundamentals of Clothing Construction	3 (1+2)	
25	TAD 122	Textile Science and Fabric Care	3 (2+1)	
26	TAD 233	Garment and Accessory Designing	3 (0+3)	
27	TAD 244	Techniques of Fabric Construction	3 (1+2)	
28	TAD 355	Textile Finishes	2 (1+1)	
29	TAD 366	Retailing and Merchandizing- Textiles and Apparel	2 (2+0)	
30	TAD 367	Traditional Textiles and Costumes of India	3 (2+1)	
COMMUNITY EXTENSION AND COMMUNICATION MANAGEMENT				
31	CECM 111	Community Extension and Rural Development	2 (1+1)	
32	CECM 122	Communication, Diffusion and Adoption of Homestead Technologies	3 (1+2)	
33	CECM 233	Programme Development for Rural Families	3 (2+1)	
34	CECM 244	Training and Human Resource Development	3 (1+2)	
35	CECM 355	Project Management	3 (1+2)	
36	CECM 366	Women in Agriculture	3 (1+1)	

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## **Annexure: “II”**

### **Syllabus for CET-Subject (Faculty): HORTICULTURE**

(Total 200 MCQs for Total 200 Marks)

#### **Section “A”: Syllabus of following courses of B.Sc. (Hons.) Horticulture for 80% weightage**

Sr. No.	Course No.	Course Title	Credits	Weightage (80%)
DIVISION OF FRUIT SCIENCE				
1	H/FS 111	Fundamentals of Horticulture	3 (2+1)	15.5% (31 Questions)
2	H/FS 122	Plant Propagation and Nursery Management	2 (1+1)	
3	H/FS 233	Tropical and Subtropical Fruits	3 (2+1)	
4	H/FS 359	Orchard and Estate Management	2 (1+1)	
5	H/FS 358	Plantation Crops	3 (2+1)	
6	H/FS 234	Temperate Fruit crops	2 (1+1)	
7	H/FS 235	Weed Management in Horticultural Crops	2 (1+1)	
8	H/BOT 123	Principles of Plant Breeding	3 (2+1)	
9	H/BOT 112	Principles of Genetics and Cytogenetics	3 (2+1)	
10	H/FS 246	Breeding of Fruit and Plantation Crops	3 (2+1)	
11	H/FS 247	Dryland Horticulture	2 (1+1)	
DIVISION OF VEGETABLE SCIENCE				
12	H/VS 232	Tropical and Subtropical Vegetable crops	3 (2+1)	10.5% (21 Questions)
13	H/VS 243	Spices and Condiments	3 (2+1)	
14	H/VS 356	Breeding of Vegetable Tuber and Spice Crops	3 (2+1)	
15	H/VS 367	Seed Production of Vegetable Tuber and Spice Crops	3 (2+1)	
16	H/VS 245	Temperate Vegetable crops	2 (1+1)	
17	H/VS 121	Potato and Tuber Crops	2 (1+1)	
18	H/VS 244	Precision Farming and Protected Cultivation	3 (2+1)	
DIVISION OF POST HARVEST TECHNOLOGY				
19	H/PHT 362	Post-harvest Management of Horticultural Crops	3 (2+1)	5% (10 Questions)
20	H/PHT 363	Processing of Horticultural Crops	3 (1+2)	
21	H/PHT 231	Fundamentals of Food and Nutrition	2 (1+1)	
DIVISION OF FLORICULTURE AND LANDSCAPING				
22	H/FL 242	Ornamental Horticulture	3 (2+1)	6% (12 Questions)
23	H/FL 364	Breeding and Seed Production of Ornamental Crops	3 (2+1)	
24	H/FL 353	Principles of Landscape Architecture	1 (0+1)	
25	H/FL 231	Commercial Floriculture	3 (2+1)	
DIVISION OF PLANT PROTECTION				
26	H/PATH 231	Fundamentals of Plant Pathology	2 (1+1)	13% (26 Questions)
27	H/PATH 352	Diseases of Fruit, Plantation and Medicinal and Aromatic Crops	3 (2+1)	
28	H/PATH 363	Diseases of Vegetable, Ornamental and Spice Crops	3 (2+1)	
29	H/PATH 364	Mushroom Production Technology	1 (0+1)	
30	H/ENTO 121	Fundamentals of Entomology	3 (2+1)	
31	H/ENTO 365	Nematode Pests of Horticultural Crops and their Management	2 (1+1)	
32	H/ENTO 243	Insect Pests of Fruit, Plantation, Medicinal and Aromatic Crops	3 (2+1)	
33	H/ENTO 354	Apiculture, Sericulture and Lac Culture	2 (1+1)	
34	H/ENTO 232	Insect Pests of Vegetable, Ornamental and Spice Crops	3 (2+1)	

*...Syllabus for CET-Faculty: HORTICULTURE*

DIVISION OF NATURAL RESOURCE MANAGEMENT				
35	H/SSAC 111	Fundamentals of Soil Science	2 (1+1)	10% (20 Questions)
36	H/SSAC 122	Soil Fertility and Nutrient Management	2 (1+1)	
37	H/EVS 121	Environmental Studies and Disaster Management <sup>#</sup>	3 (2+1)	
38	H/SSAC 243	Soil, Water and Plant Analysis	2 (1+1)	
39	H/ENGG 362	Farm Machinery and Power Engineering	2 (1+1)	
40	H/ENGG 121	Water Management in Horticultural Crops	2 (1+1)	
41	H/AGRO 251	Organic Farming	2 (1+1)	
42	H/AGROMET 111	Agro-meteorology and Climate Change	2 (1+1)	
DIVISION OF BASIC SCIENCE & HUMANITIES				
43	H/STAT 111	Elementary Statistics and Computer Application	3 (2+1)	20% (40 Questions)
44	H/BIOCHEM 111	Elementary Plant Biochemistry	2 (1+1)	
45	H/BIOT 231	Elementary Plant Biotechnology	2 (1+1)	
46	H/BOT 111	Introductory Crop Physiology	2 (1+1)	
47	H/ECON 111	Economics and Marketing <sup>#</sup>	3 (2+1)	
48	H/ECON 362	Horti-Business Management	2 (2+0)	
49	H/EXTN 231	Fundamentals of Extension Education	2 (1+1)	
50	H/EXTN 363	Entrepreneurship Development and Business Management <sup>#</sup>	2 (1+1)	
51	H/HORT 121	Growth and Development of Horticultural Crops	2 (1+1)	
52	H/EXTN 352	Communication Skills and Personality Development <sup>#</sup>	2 (1+1)	
53	H/MIBO 121	Introductory Microbiology	2 (1+1)	
54	H/IT 121	Information and Communication Technology <sup>#*</sup>	2 (1+1)	
55	H/HORT 352	Introductory Agro-forestry	2 (1+1)	
56	H/MAP 351	Medicinal and Aromatic Crops	3 (2+1)	
57	H/AGRO 242	Introduction to Major Field Crops	2 (1+1)	
58	H/AHDS 241	Livestock production and management	1 (1+0)	

<b>Section “B”</b>	:	<b>Syllabus of courses of B.Sc. (Hons.) Agriculture for 10% weightage i.e. 20 Questions from Agriculture syllabus (Annexure I – Section A)</b>
<b>Section “C”</b>	:	<b>Syllabus of courses of B.Sc. (Hons.) Forestry for 10% weightage i.e. 20 Questions from Forestry syllabus (Annexure III – Section A)</b>

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**Annexure: “III”**  
**Syllabus for CET-Subject (Faculty): FORESTRY**  
(Total 200 MCQs for Total 200 Marks)

**Section “A”: Syllabus of following courses of B.Sc. (Hons.) Forestry for 80% Weightage**

Sr. No.	Course No.	Course Title	Credits	Weightage (80%)
SILVICULTURE AND AGROFORESTRY				
1	SA 111	Introduction to Forestry	2 (2+0)	10% (20 Questions)
2	SA 122	Principles of Agroforestry	3 (2+1)	
3	SA 233	Theory and Practice of Silviculture	3 (2+1)	
4	SA 354	Agroforestry Systems and Management	3 (2+1)	
5	SA 365	Silviculture of Indian Trees	3 (2+1)	
6	SA 486	Plantation Forestry	3 (2+1)	
FOREST BIOLOGY AND TREE IMPROVEMENT				
7	FB 111	Plant Physiology	3 (2+1)	10% (20 Questions)
8	FB 112	Forest Botany	2 (1+1)	
9	FB 123	Dendrology	3 (2+1)	
10	FB 124	Seed Technology & Nursery Management	3 (2+1)	
11	FB 235	Tree Improvement	3 (2+1)	
12	FB 486	Forest Biotechnology	3 (2+1)	
NATURAL RESOURCE MANAGEMENT				
13	NR 121	Recreation & Urban Forestry	3 (2+1)	9% (18 Questions)
14	NR 232	Forest Extension and Community Forestry	3 (2+1)	
15	NR 243	Forest Mensuration	3 (2+1)	
16	NR 354	Forest Management	3 (2+1)	
17	NR 365	Forest Inventory and Yield Prediction	2 (1+1)	
18	NR 486	Forest Laws, Legislation and Policies	2 (2+0)	
FOREST PRODUCT UTILIZATION				
19	FP 231	Wood Anatomy	3 (2+1)	11% (22 Questions)
20	FP 232	Ethnobotany, Medicinal and Aromatic plants	3 (2+1)	
21	FP 243	Logging and Ergonomics	2 (2+1)	
22	FP 354	Wood Products & Utilization	3 (2+1)	
23	FP 365	Wood Science and Technology	3 (2+1)	
24	FP 366	Non-Timber Forest Products	3 (2+1)	
25	FP 487	Certification of Forest Products	2 (2+0)	
WILDLIFE SCIENCE				
26	WL 121	Wildlife Biology	3 (2+1)	10% (20 Questions)
27	WL 122	Forest Ecology & Biodiversity	3 (2+1)	
28	WL 243	Wildlife Management	2 (1+1)	
29	WL 354	Restoration Ecology	3 (2+1)	
30	WL 365	Geomatics	3 (1+2)	
31	WL 486	Ornithology & Herpetology	3 (2+1)	
BASIC AND SOCIAL SCIENCES				
32	LANG 111	Comprehension & Communication Skills in English	2 (1+1)	16% (32 Questions)
33	EXTN 123	Communication Skills and Personality Development	2 (1+1)	
34	F/EXTN 244	Forest Tribology & Anthropology	2 (2+0)	
35	EXTN 355	Entrepreneurship Dev't & Business Communication	2 (1+1)	
36	F/ECON 361	Forest Economics and Marketing	3 (2+1)	
37	COMP 231	Agri-Informatics	2 (1+1)	
38	EVS 231	Environmental Studies and Disaster Management	3 (2+1)	
39	F/STAT 241	Elementary Statistics	3 (2+1)	

<b>AGRICULTURAL AND ALLIED SUBJECTS</b>				
40	F/BOT 121	Plant Cytology and Genetics	2 (1+1)	14% (28 Questions)
41	F/AGRO 111	Introduction to Agronomy	2 (1+1)	
42	F/HORT 111	Introduction to Horticulture	2 (1+1)	
43	F/SSAC 111	Geology and Soils	2 (1+1)	
44	F/SSAC 112	Soil Biology and Fertility	2 (1+1)	
45	F/ASDS 241	Rangeland and Livestock Management	3 (2+1)	
46	F/ENGG 242	Forest Hydrology and Watershed Management	3 (2+1)	
47	F/ENGG 363	Forest Survey and Engineering	2 (1+1)	
48	F/ENTO 351	Forest Entomology	2 (1+1)	
49	F/PATHO 241	Forest Pathology	2 (1+1)	
50	F/AGROMET 351	Climate Science	2 (1+1)	

<b>Section “B”</b>	:	<b>Syllabus of courses of B.Sc. (Hons.) Agriculture for 10% weightage i.e. 20 Questions from Agriculture syllabus (Annexure I – Section A)</b>
<b>Section “C”</b>	:	<b>Syllabus of courses of B.Sc. (Hons.) Horticulture for 10% weightage i.e. 20 Questions from Horticulture syllabus (Annexure II – Section A)</b>

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## **Annexure: “IV”**

### **Syllabus for CET-Faculty: AGRIL. ENGINEERING**

(Total 200 MCQs for Total 200 Marks)

#### **Section “A”: Syllabus of following courses of B.Tech. (Agril. Engineering) for 100%**

Sr. No.	Course No.	Course Title	Credit	Weightage (100%)
FARM MACHINERY AND POWER ENGINEERING				
1	FMPE 123	Workshop Technology	2 (1+1)	14% (28 Questions)
2	FMPE 234	Farm Power and Automotive Engines	2 (1+1)	
3	FMPE 235	Theory of Machines	2 (1+1)	
4	FMPE 246	Tractor Systems and Controls	2 (1+1)	
5	FMPE 247	Machine Design	2 (1+1)	
6	FMPE 358	Farm Machinery and Equipment-I	2 (1+1)	
7	FMPE 3611	Farm Machinery and Equipment-II	2 (1+1)	
8	FMPE 3612	Tractor & Farm Machinery Design	3 (2+1)	
SOIL WATER CONSERVATION ENGINEERING				
9	SWCE 121	Surveying and Leveling	3 (1+2)	13% (26 Questions)
10	SWCE 232	Soil Mechanics	2 (1+1)	
11	SWCE 233	Watershed Hydrology	3 (2+1)	
12	SWCE 244	Soil and Water Conservation Engineering	3 (2+1)	
13	SWCE 355	Water Harvesting and Soil Conservation Structures	3 (2+1)	
14	SWCE 366	Watershed Planning and Management	2 (1+1)	
IRRIGATION DRAINAGE ENGINEERING				
15	IDE 231	Fluid Mechanics and Open Channel Hydraulics	3 (2+1)	13% (26 Questions)
16	IDE 242	Irrigation Engineering	3 (2+1)	
17	IDE 353	Groundwater, Wells and Pumps	3 (2+1)	
18	IDE 354	Drainage Engineering	3 (2+1)	
19	IDE 365	Canal Irrigation Management	2 (1+1)	
20	IDE 366	Sprinkler and Micro Irrigation System	2 (1+1)	
PROCESSING &FOOD ENGINEERING				
21	PFE 111	Thermodynamics	2 (1+1)	13% (26 Questions)
22	PFE 122	Heat and Mass Transfer	2 (1+1)	
23	PFE 233	Engineering Properties of Agricultural Produce	2 (1+1)	
24	PFE 244	Post Harvest Engineering of Cereals, Pulses & Oilseeds	3 (2+1)	
25	PFE 355	Dairy and Food Engineering	3 (2+1)	
26	PFE 366	Post Harvest Engineering of Horticultural Crops	2 (1+1)	
27	PFE 367	Refrigeration and Air Conditioning	2 (1+1)	
RENEWABLE ENERGY ENGINEERING				
28	REE 111	Engineering Chemistry	2 (1+1)	11% (22 Questions)
29	REE 122	Electrical Machines and Power Utilization	3 (2+1)	
30	REE 243	Fundamentals of Renewable Energy Sources	3 (2+1)	
31	REE 354	Renewable Power Sources	3 (2+1)	
32	REE 365	Bio-energy Systems: Design and Applications	3 (2+1)	
FARM STRUCTURE				
33	FS 111	Engineering Mechanics	3 (2+1)	10% (20 Questions)
34	FS 122	Strength of Materials	2 (1+1)	
35	FS 233	Theory of Structures	2 (1+1)	
36	FS 244	Building Construction and Cost Estimation	2 (1+1)	
37	FS 355	Agricultural Structures, Storage Engineering and Environmental Control	3 (2+1)	



*...Syllabus for CET-Faculty: AGRIL. ENGINEERING*

BASIC ENGINEERING				
38	BS-MATH 111	Engineering Mathematics-I	3 (2+1)	14% (28 Questions)
39	BS-MATH 122	Engineering Mathematics-II	3 (2+1)	
40	BS-MATH 233	Engineering Mathematics-III	3 (2+1)	
41	BS-PHY 111	Engineering Physics	2 (1+1)	
42	BS-PHY 242	Applied Electronics & Instrumentation	2 (1+1)	
43	BS-COMP 111	Computer Programming and Data Structures	2 (1+1)	
44	BS-COMP 122	Web Designing and Internet Applications	2 (0+2)	
APPLIED AND AGRICULTURALSCIENCES				
45	AS-SS 111	Principles of Soil Science	2 (1+1)	12% (24 Questions)
46	AS-EXTN 111	Communication Skills and Personality Development	2 (1+1)	
47	AS-STAT 121	Statistical Methods in Engineering	2 (1+1)	
48	AS-AGRO 121	Principles of Agronomy	2 (1+1)	
49	AS-HORT 121	Principles of Horticultural Crops and Plant Protection	2 (1+1)	
50	AS-ECON 231	Entrepreneurship Development and Business Communication	2 (1+1)	
51	AS-ESDM 361	Environmental Science and Disaster Management	3 (2+1)	

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**Annexure: “V”****Syllabus for CET-Faculty: FOOD TECHNOLOGY**

(Total 200 MCQs for Total 200 Marks)

**Section “A”: Syllabus of following courses of B.Tech. (Food Technology) for 100%**

Sr. No.	Course No.	Course Title	Credit	Weightage (100%)
FOOD PROCESS TECHNOLOGY				
1	FPT 111	Principles of Food Processing	3 (2+1)	28% (56 Questions)
2	FPT 112	Postharvest Management of Fruits and Vegetables	3 (2+1)	
3	FPT 123	Cereal Processing	3 (2+1)	
4	FPT 124	Food Packaging Technology	2 (1+1)	
5	FPT 235	Legumes and Oilseeds Technology	3 (2+1)	
6	FPT 236	Meat, Poultry and Fish Technology	3 (2+1)	
7	FPT 237	Processing Technology of Beverages	2 (1+1)	
8	FPT 238	Processing of Milk and Milk Products	3 (2+1)	
9	FPT 249	Wheat Milling and Baking Technology	3 (2+1)	
10	FPT 2410	Fruits and Vegetables Processing	3 (2+1)	
11	FPT 2411	Processing of Spices and Plantation Crops	3 (2+1)	
12	FPT 3512	Confectionary and Snacks Technology	3 (2+1)	
13	FPT 3513	Food Extrusion Technology	2 (1+1)	
14	FPT 3614	Food Quality and Sensory Evaluation	3 (2+1)	
FOOD ENGINEERING				
15	FE 111	Engineering Drawing and Graphics	3 (1+2)	28% (56 Questions)
16	FE 112	Fluid Mechanics	3 (2+1)	
17	FE 113	Mathematics	2 (2+0)	
18	FE 124	Heat and Mass Transfer	3 (2+1)	
19	FE 125	Statistical Methods and Numerical Analysis	2 (1+1)	
20	FE 236	Energy Generation and Conservation	3 (2+1)	
21	FE 237	Unit Operations in Food Processing – I	3 (2+1)	
22	FE 248	Unit Operations in Food Processing – II	3 (2+1)	
23	FE 249	Post Harvest and Storage Engineering	3 (2+1)	
24	FE 3510	Biochemical Engineering	3 (2+1)	
25	FE 3511	Food Refrigeration and Cold Storage	3 (2+1)	
26	FE 3612	Food Processing Equipment Design	2 (1+1)	
27	FE 3613	Food Plant Design and Layout	3 (2+1)	
28	FE 3614	Instrumentation and Process Control	3 (2+1)	
FOOD CHEMISTRY AND NUTRITION				
29	FCN 111	Environmental Science and Disaster Management	2 (1+1)	13.5% (27 Questions)
30	FCN 112	Biochemistry	2 (1+1)	
31	FCN 123	Human Nutrition	3 (2+1)	
32	FCN 124	Food Chemistry of Macronutrients	3 (2+1)	
33	FCN 235	Food Chemistry and Micronutrients	3 (2+1)	
34	FCN 246	Food Additives and Preservatives	2 (1+1)	
35	FCN 357	Instrumental Techniques in Food Analysis	2 (0+2)	
36	FCN 368	Enzymes in Food Industry	2 (1+1)	

*Syllabus for CET-Faculty: FOOD TECHNOLOGY*

FOOD MICROBIOLOGY AND SAFETY				
37	FMS 111	General Microbiology	3 (2+1)	15% (30 Questions)
38	FMS 122	Food Microbiology	3 (2+1)	
39	FMS 233	Industrial Microbiology	3 (2+1)	
40	FMS 244	Food Safety and Microbial Standards	3 (2+1)	
41	FMS 355	Food Biotechnology	3 (2+1)	
42	FMS 366	Food Plant Sanitation	3 (2+1)	
43	FMS 367	Quality Assurance and Certification	3 (2+1)	
FOOD BUSINESS MANAGEMENT				
44	FBM 111	Computer Programming and Data Structure	3 (1+2)	15.5% (31 Questions)
45	FBM 122	Information and Communication Technology	2 (1+1)	
46	FBM 243	ICT Application in Food Industry	3 (1+2)	
47	FBM 354	Entrepreneurship Development	3 (2+1)	
48	FBM 355	Business Management and Economics	2 (2+0)	
49	FBM 356	Food Laws and Regulations	3 (2+1)	
50	FBM 367	Project Preparation and Management	2 (1+1)	
51	FBM 368	Marketing Management and International Trade	2 (2+0)	
52	FBM 369	Communication Skills and Personality Development	2 (1+1)	

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## **Annexure: “VI”**

### **Syllabus for CET-Subject (Faculty): COMMUNITY SCIENCE**

(Total 200 MCQs for Total 200 Marks)

**Section “A”: Syllabus of following courses of B.Sc. (Hons.) Community Science for 100% weightage**

Sr. No.	Course No.	Course Title	Credits	Weightage (100%)
HUMAN DEVELOPMENT AND STUDIES				
1	HDS 111	Fundamentals of Human Development	3 (2+1)	18% (36 Questions)
2	HDS 122	Marriage and Family Dynamics	3 (2+1)	
3	HDS 233	Life-Span Development	4 (2+2)	
4	HDS 244	Educational Psychology and Early Childhood Education	4 (2+2)	
5	HDS 355	Developmental Challenges in Children	3 (2+1)	
6	HDS 366	Family Counseling and Child Welfare	3 (2+1)	
7	HDS 367	Education and Counseling for Parents & Community	3 (0+3)	
RESOURCE MANAGEMENT AND CONSUMER SCIENCE				
8	RMCS 111	Fundamentals of Art and Design	3 (1+2)	18% (36 Questions)
9	RMCS 122	System Dynamics and Management of Resources	3 (2+1)	
10	RMCS 233	Financial Management and Consumer Education	3 (2+1)	
11	RMCS 244	Housing and Space Management	3 (2+1)	
12	RMCS 245	Ergonomics and Appropriate Technologies	3 (1+2)	
13	RMCS 356	Residential and Commercial Space Design	3 (2+1)	
14	RMCS 357	Event Management	3 (0+3)	
15	RMCS 368	Entrepreneurship Development and Business Management	3 (2+1)	
FOOD SCIENCE AND NUTRITION				
16	FSN 111	Food Science and Processing	3 (2+1)	18% (36 Questions)
17	FSN 122	Principles of Human Nutrition	3 (2+1)	
18	FSN 233	Food Standards and Quality Control	3 (2+1)	
19	FSN 234	Food Preservation and Storage	2 (0+2)	
20	FSN 245	Normal Nutrition	2 (1+1)	
21	FSN 356	Therapeutic Nutrition	3 (2+1)	
22	FSN 367	Food Analysis	3 (1+2)	
23	FSN 368	Community Nutrition and Education	3 (2+1)	
TEXTILES AND APPAREL DESIGNING				
24	TAD 111	Fundamentals of Clothing Construction	3 (1+2)	14% (28 Questions)
25	TAD 122	Textile Science and Fabric Care	3 (2+1)	
26	TAD 233	Garment and Accessory Designing	3 (0+3)	
27	TAD 244	Techniques of Fabric Construction	3 (1+2)	
28	TAD 355	Textile Finishes	2 (1+1)	
29	TAD 366	Retailing and Merchandizing- Textiles and Apparel	2 (2+0)	
30	TAD 367	Traditional Textiles and Costumes of India	3 (2+1)	
COMMUNITY EXTENSION AND COMMUNICATION MANAGEMENT				
31	CECM 111	Community Extension and Rural Development	2 (1+1)	12% (24 Questions)
32	CECM 122	Communication, Diffusion and adoption of Homestead Technologies	3 (1+2)	
33	CECM 233	Programme Development for Rural Families	3 (2+1)	
34	CECM 244	Training and Human Resource Development	3 (1+2)	
35	CECM 355	Project Management	3 (1+2)	
36	CECM 366	Women in Agriculture	2 (1+1)	

*...Syllabus for CET-Faculty: COMMUNITY SCIENCE*

AGRICULTURE AND APPLIED SCIENCES				
37	LANG 111	Comprehension and Communication Skills in English	2 (1+1)	20% (40 Questions)
38	ESDM 111	Environmental Studies and Disaster Management	3 (2+1)	
39	IRS 111	Introduction to Rural Sociology	2 (2+0)	
40	LANG 122	Technical Writing (English)	2 (1+1)	
41	AGRIL IN121	Agricultural Informatics	3 (1+2)	
42	BIOCHEM 121	Principles of Biochemistry	3 (2+1)	
43	FMICRO231	Fundamentals of Food Microbiology	3 (2+1)	
44	STAT 231	Elementary Statistics	3 (2+1)	
45	CSPD 241	Community Skills and Personality Development	3 (2+1)	
46	EHP 351	Elementary Human Physiology	3 (2+1)	
47	ECON 351	Economics and Marketing	3 (2+1)	

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**Annexure: “VII”****Syllabus for CET-Faculty: FISHERIES SCIENCE**

(Total 200 MCQs for Total 200 Marks)

**Section “A”: Syllabus of following courses of Fisheries Science for 100% weightage**

Sr. No.	Course No.	Course Title	Credit	Weightage (100%)
DEPARTMENT OF AQUACULTURE				
1	AQC 111	Principles of Aquaculture	2 (1+1)	27% (54 Questions)
2	AQC 112	Fundamentals of Biochemistry	3 (2+1)	
3	AQC 123	Freshwater Aquaculture	3 (2+1)	
4	AQC 124	Fish Nutrition and Feed technology	3 (2+1)	
5	AQC 235	Fish Food Organism	2 (1+1)	
6	AQC 236	Ornamental Fish Production and Management	2 (1+1)	
7	AHM 232*	Fish and Shellfish Pathology	2 (1+1)	
8	AHM 233*	Pharmacology	3 (2+1)	
9	AQC 247	Coastal Aquaculture and Mariculture	3 (2+1)	
10	AQC 248	Aquaculture in Reservoir	2 (1+1)	
11	AQC 249	Genetics and Breeding	2 (1+1)	
12	AQC 2410	Introduction to Biotechnology and Bioinformatics	2 (1+1)	
13	AHM 244*	Fish and Shellfish Health Management	2 (1+1)	
14	AQC 3511	Finfish Hatchery Management	3 (2+1)	
15	AHM 355*	Therapeutics in Aquaculture	2 (1+1)	
16	AQC 3612	Shellfish Hatchery Management	2 (1+1)	
DEPARTMENT OF FISHERIES BIOLOGY				
17	FRM 111	Taxonomy of Finfish	3 (1+2)	18% (36 Questions)
18	FRM 112	Taxonomy of Shellfish	2 (1+1)	
19	FRM 123	Anatomy and Biology of Finfish	3 (2+1)	
20	FRM 124	Anatomy and Biology of Shellfish	2 (1+1)	
21	FRM 235	Inland Fisheries	3 (2+1)	
22	FRM 236	Physiology of Finfish and Shellfish	3 (2+1)	
23	FRM 247	Aquatic Mammals, Reptiles and Amphibians	1 (1+0)	
24	FRM 358	Marine Fisheries	3 (2+1)	
25	AHM 356	Fish Immunology	2 (1+1)	
26	FRM 369	Fish Population Dynamics and Stock Assessment	3 (2+1)	
DEPARTMENT OF FISHERIES HYDROGRAPHY				
27	AEM 111	Meteorology, Climatology and Geography	2 (1+1)	15.5% (31 Questions)
28	AEM 112	Soil and Water Chemistry	2 (1+1)	
29	AEM 113	Coastal Zone and Disaster Management	2 (1+1)	
30	AEM 124	Limnology	3 (2+1)	
31	AEM 235	Fishery Oceanography	3 (2+1)	
32	AEM 356	Aquatic Ecology and Biodiversity	3 (2+1)	
33	AEM 367	Marine Biology	3 (2+1)	
34	AHM 367*	Fish Toxicology	2 (1+1)	
35	AEM 368	Aquatic Pollution	2 (1+1)	

*...Syllabus for CET-Faculty: FISHERIES SCIENCE*

DEPARTMENT OF FISH PROCESSING TECHNOLOGY				
36	FPT 111	Fish in Nutrition	1 (1+0)	16.5% (33 Questions)
37	AHM 111	Fundamentals of Microbiology	3 (2+1)	
38	FPT 122	Food Chemistry	3 (2+1)	
39	FPT 233	Freezing Technology	2 (1+1)	
40	FPT 244	Fish Canning Technology	2 (1+1)	
41	FPT 245	Fish Packaging Technology	2 (1+1)	
42	FPT 356	Microbiology of Fish and Fishery Products	3 (2+1)	
43	FPT 357	Quality assurance of Fish and Fishery products	2 (1+1)	
44	FPT 368	Fish Products and Value Addition	3 (2+1)	
45	FPT 369	Fish By-products and Waste Utilization	2 (1+1)	
FISHERIES RESOURCES, ECONOMICS, STATISTICS AND EXTENSION EDUCATION				
46	EES 111	Information and Communication Technology	2 (1+1)	13% (26 Questions)
47	EES 112	Elements of Statistics	1 (0+1)	
48	EES 113	Communication Skills and personality development	1 (0+1)	
49	EES 124	Fisheries Business Management and Entrepreneurship Development	1 (1+0)	
50	EES 125	Fisheries Extension Education	3 (2+1)	
51	EES 236	Fisheries Economics	3 (2+1)	
52	EES 247	Statistical Methods	2 (1+1)	
53	EES 358	Project Formulation and Finance	2 (1+1)	
54	EES 369	Fisheries Policy and Law	1 (1+0)	
55	EES 3610	Fisheries Co-operatives and Marketing	2 (1+1)	
FISHERIES ENGINEERING				
56	ENG 121	Refrigeration and equipment engineering	2 (1+1)	10% (20 Questions)
57	ENG 122	Marine Engines and propulsion system	1 (0+1)	
58	ENG 243	Fishing Craft Technology	2 (1+1)	
59	ENG 244	Aquaculture Engineering	3 (2+1)	
60	ENG 355	Fishing Gear Technology	2 (1+1)	
61	ENG 366	Fishing Technology	2 (1+1)	
62	ENG 367	Navigation and Seamanship	2 (1+1)	

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**Annexure: “VIII”****Syllabus for CET-Faculty: MOLECULAR BIOLOGY AND BIOTECHNOLOGY**

(Total 200 MCQs for Total 200 Marks)

**Section “A”: Syllabus of following courses of B.Tech. (Biotechnology) for 80%**

Sr. No.	Course No.	Course Title	Credits	Weightage (80%)
CORE COURSES				
1	BT1 11	Cell Biology	2 (2+0)	50% (100 Questions)
2	BT 112	Basic Genetics	3 (2+1)	
3	BT 113	Introduction to Biotechnology	3 (2+1)	
4	BT 124	Plant Tissue Culture	3 (2+1)	
5	BT 125	Molecular Biology	3 (2+1)	
6	BT 236	Recombinant DNA Technology	3 (2+1)	
7	BT 247	Introductory Bioinformatics	3 (2+1)	
8	BT 248	Plant Genetic Transformation	3 (2+1)	
9	BT/ECE 241	Electronics and Instrumentation in Biotechnology	2 (1+1)	
10	BT 249	Classical and Molecular Cytogenetics	3 (2+1)	
11	BT 3510	Immunology	3 (2+1)	
12	BT 3511	Molecular Genetics	2 (2+0)	
13	BT 3512	Nanobiotechnology	2 (2+0)	
14	BT 3513	Animal Biotechnology	4 (3+1)	
15	BT 3514	Molecular Marker Technology	2 (2+0)	
16	BT 3515	Genomics and Proteomics	3 (3+0)	
17	BT 3516	IPR, Biosafety and Bioethics	2 (2+0)	
18	BT 3617	Computational Biology	3 (2+1)	
19	BIOCHEM 241	General Biochemistry	4 (3+1)	
20	BIOCHEM 352	Enzymology and Enzyme Technologies	3 (2+1)	
21	BOT/ZOO 121	Biodiversity and its Conservation	2 (2+0)	
22	MICRO 121	Microbiology	3 (2+1)	
23	MICRO 242	Microbial Genetics	3 (2+1)	
24	PBTEL 361	Plant Tissue Culture and its Applications	3 (2+1)	
25	PBTEL 362	Principles and Applications of Plant Genetic Transformation	3 (2+1)	
26	PBTEL 363	Applications of Genomics and Proteomics	3 (2+1)	
27	PBTEL 364	Molecular Breeding in Field Crops	3 (2+1)	
28	PBTEL 365	Molecular Breeding of Horticultural Crops and Forest Trees	3 (2+1)	
29	PBTEL 366	Epigenetics and Gene Regulation	3 (2+1)	
AGRICULTURE COURSES				
30	AGRO 111	Crop Production Technology	3 (2+1)	9% (18 Questions)
31	HORT 121	Production Technologies for Horticultural Crops	3 (2+1)	
32	PB 121	Basics of Plant Breeding	3 (2+1)	
33	PB 232	Breeding of Field Crops	3 (2+1)	
34	ENT.PL.PATH 231	Fundamentals of Crop Production	3 (2+1)	

BASIC SCIENCE COURSES				
35	CSPD 111	Communication Skills and Personality Development	2 (1+1)	18% (36 Questions)
36	ENV 111	Environmental Studies and Disaster Management	3 (2+1)	
37	FT 111	Food Science and Processing	2 (1+1)	
38	HD 111	Human Ethics	1 (1+0)	
39	BOT 232	Plant Physiology	3 (2+1)	
40	MATH 233	Biomathematics	3 (2+1)	
41	ECON 231	Economics and Marketing	3 (2+1)	
42	EDBM 241	Entrepreneurship Development and Business Management	2 (1+1)	
43	PHY 241	Biophysics	3 (2+1)	
44	STAT 121	Basic Statistics	2 (1+1)	
45	STAT 362	Biostatistics	3 (2+1)	
46	ICT 231	Information and Communication Technology	2 (1+1)	
47	ICT 352	Agricultural Informatics	3 (2+1)	
ANIMAL SCIENCE COURSE				
48	AS 233	Livestock Production and Management	3 (2+1)	3% (6 Questions)

<b>Section “B”</b>	:	<b>Syllabus of courses of B.Sc. (Hons.) Agriculture for 8% weightage i.e. 16 Questions from Agriculture syllabus (Annexure I – Section A)</b>
<b>Section “C”</b>	:	<b>Syllabus of courses of B.Sc. (Hons.) Horticulture for 3% weightage i.e. 6 Questions from Horticulture syllabus (Annexure II – Section A)</b>
<b>Section “D”</b>	:	<b>Syllabus of courses of B.Sc. (Hons.) Forestry for 3% weightage i.e. 6 Questions from Forestry syllabus (Annexure III– Section A)</b>
<b>Section “E”</b>	:	<b>Syllabus of courses of B.Tech.(Food Technology) for 3% weightage i.e. 6 Questions from Food Technology syllabus (Annexure V – Section A)</b>
<b>Section “F”</b>	:	<b>Syllabus of courses of B.F.Sc. for 3% weightage i.e. 6 Questions from Fisheries Science syllabus (Annexure VII– Section A)</b>

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**Annexure: “IX”****Syllabus for CET-Faculty: AGRI. BUSINESS MANAGEMENT**

(Total 200 MCQs for Total 200 Marks)

**SECTION “A”: Syllabus of following courses of B.Sc. (Hons.) Agri. Business Management for 60%**

Sr. No.	Course No.	Course Title	Credits	Weightage (60%)
<b>AGRICULTURAL AND ALLIED SUBJECTS</b>				
1	AGRO 111	Introduction to Agronomy and Crop Production Technology	3 (2+1)	5 % (10 Questions)
2	AGRO 122	Sustainable Farming Systems and Precision Agriculture	2 (1+1)	
3	HORT 121	Production Technology of Horticulture Crops	3 (2+1)	
4	HORT 232	Post-harvest Management and Value Addition of Fruits & Vegetables	2 (1+1)	
5	BOT 231	Introduction to Genetics and Plant breeding	2 (1+1)	3 % (6 Questions)
6	BOT 242	Intellectual Property Rights	1 (1+0)	
7	BOT 243	Principles and Practices of Seed Science and Technology	2 (1+1)	
8	BIOTECH 351	Introduction to Plant Biotechnology	2 (2+0)	
9	SSAC 241	Soil and Water Management	2 (1+1)	6 % (12 Questions)
10	SSAC 352	Manures, Fertilizers and Soil Fertility Management	3 (2+1)	
11	ASDS 111	Livestock, Poultry and Fish Production Management	2 (1+1)	
12	ENGG 121	Farm Machinery and Power	2 (1+1)	
13	ENGG 232	Protected Cultivation and Secondary Agriculture	2 (1+1)	
14	ENGG 363	Post-harvest Physiology of Market Produce	3 (2+1)	
15	ENTO 121	Introduction to Entomology	2 (1+1)	5 % (10 Questions)
16	ENTO 242	Management of Beneficial Insects	2 (1+1)	
17	ENTO 353	Management of Insect Pests of Crops and Stored Grains	2 (1+1)	
18	PATH 121	Introduction to Plant Pathology	2 (1+1)	
19	PATH 232	Agricultural Microbiology	2 (1+1)	
20	PATH 243	Management of Plant Diseases	2 (1+1)	
21	EXTN 111	Rural Sociology, Educational Psychology & Constitution of India	2 (0+2)	4 % (8 Questions)
22	EXTN 122	Communication Skills & Personality Development	2 (1+1)	
23	EXTN 233	Fundamentals of Agricultural Extension Education & Rural Development	2 (1+1)	
24	EXTN 244	Communication and Diffusion of Agricultural Innovations	2 (1+1)	
25	COMP 111	Computer Science and Agri-Informatics	2 (1+1)	7 % (14 Questions)
26	STAT 231	Statistical Methods	2 (1+1)	
27	STAT 242	Applied Business Statistics	2 (1+1)	
28	FSHN 361	Food Science and Human Nutrition	2 (1+1)	
29	ECON 367	Forest Resource Management	2 (1+1)	
30	BM 366	Entrepreneurship Development and Business Communication	2 (1+1)	
31	BM 367	Environmental Studies & Disaster Management	2 (2+0)	

Economics and Policy				
32	ECON 111	Fundamentals of Agricultural Economics	2 (2+0)	7 % (14 Questions)
33	ECON 122	Micro Economics and Macro Economics	3 (2+1)	
34	ECON 233	Farm Management, Production & Resource Economics	2 (1+1)	
35	ECON 244	Theory and Practice of Cooperation	2 (2+0)	
36	ECON 355	Introduction to Managerial Economics	3 (2+1)	
37	ECON 366	International Trade and Policy in Agriculture	2 (2+0)	
Business Management				
38	BM 111	Principles of Management and Organizational Behaviour	3 (2+1)	6 % (12 Questions)
39	BM 122	Business Laws and Ethics	2 (2+0)	
40	BM 233	Business Research Methods	3 (2+1)	
41	BM 244	Food Business Management	2 (2+0)	
42	BM 355	Agribusiness Project Management	3 (2+1)	
Marketing				
43	MKT 111	Grading, Standardization & Quality Management in Agri-food Products	3 (2+1)	10% (20 Questions)
44	MKT 122	Introduction to Commodity Markets	3 (2+1)	
45	MKT 233	Agri-input Marketing Management	2 (1+1)	
46	MKT 244	Marketing Management	2 (2+0)	
47	MKT 355	Value chain and Retail Management in Agribusiness	3 (2+1)	
48	COMP 352	Information Communication Technology	2 (2+0)	
49	MKT 366	Agricultural Price and Policy Analysis	3 (2+1)	
50	MKT 367	Market Information and Intelligence	3 (2+1)	
Banking, Finance and Accountancy				
51	BFA 121	Agricultural Finance and Insurance	3 (2+1)	7 % (14 Questions)
52	BFA 232	Financial Management	3 (2+1)	
53	BFA 243	Theory and Practice of Banking	2 (2+0)	
54	BFA 354	Introduction to Accountancy	3 (2+1)	
55	BFA 365	Managerial Accounting	3 (2+1)	

<b>SECTION “B”</b>	<b>:</b>	<b>Syllabus of courses of B.Sc. (Hons.) Agriculture for 5% weightage i.e. 10 Questions from Agriculture syllabus (Annexure I - Section A)</b>
<b>SECTION “C”</b>	<b>:</b>	<b>Syllabus of courses of B.Sc. (Hons.) Horticulture for 5 % weightage i.e. 10 Questions from Horticulture syllabus (Annexure II - Section A)</b>
<b>SECTION “D”</b>	<b>:</b>	<b>Syllabus of courses of B.Sc. (Hons.) Forestry for 5% weightage i.e. 10 Questions from Forestry syllabus (Annexure III - Section A)</b>
<b>SECTION “E”</b>	<b>:</b>	<b>Syllabus of courses of B.Tech. (Agril. Engg.) for 5% weightage i.e. 10 Questions from Agricultural Engineering syllabus (Annexure IV - Section A)</b>
<b>SECTION “F”</b>	<b>:</b>	<b>Syllabus of courses of B.Tech. (Food Technology) for 5% weightage i.e. 10 Questions from Food Technology syllabus (Annexure V - Section A)</b>
<b>SECTION “G”</b>	<b>:</b>	<b>Syllabus of courses of B.Sc. (Hons.) Community Science for 5% weightage i.e. 10 Questions from Community Science syllabus (Annexure VI - Section A)</b>
<b>SECTION “H”</b>	<b>:</b>	<b>Syllabus of courses of B.F.Sc. for 5% weightage i.e. 10 Questions from Fisheries Sci. syllabus (Annexure VII - Section A)</b>
<b>SECTION “I”</b>	<b>:</b>	<b>Syllabus of courses of B.Tech. (Biotech.) for 5% weightage i.e. 10 Questions from Agril. Biotechnology syllabus (Annexure VIII - Section A)</b>

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