

**B.Sc. (HONOURS IN AGRICULTURE)**  
**COURSE STRUCTURE**

<b>Course No.</b>	<b>Course Title</b>
<b>SEMESTER I</b>	
HORT-111	Fundamentals of Horticulture
PBB-112	Fundamentals of Plant Biochemistry and Biotechnology
SOILS-113	Fundamentals of Soil Science
AFR-114	Introduction to Forestry
GPB-115 GPB-115A	Punjabi Compulsory Punjabi Compulsory (Mudla Gyan/Elementary Punjabi)
AGR-116	Fundamentals of Agronomy
BIO-117	Introductory Biology*
MATH-117	Elementary Mathematics*
AGR-118	Agricultural Heritage*
EXT-119	Rural Sociology & Educational Psychology
HVE-1120	Human Values & Ethics (Non Gradiant)**
NSS-1121/ NCC-1121/ PEY-1121	National Service Scheme- I / National Cadet Corps- I / Physical Education & Yoga Practices- I**
ENG-1122	Comprehension and Communication Skills in English
<b>Semester II</b>	
PBG-121	Fundamentals of Genetics
AMB-122	Agricultural Microbiology
SOILS-123	Soil and Water Conservation Engineering
FCP-124	Fundamentals of Crop Physiology
AEC-125	Fundamentals of Agricultural Economics
PPL-126	Fundamentals of Plant Pathology
ENT-127	Fundamentals of Entomology

EXT-128	Fundamentals of Agricultural Extension Education
GPB-129	Punjabi Compulsory
GPB -129A	Punjabi Compulsory (Mudla Gyan/Elementary Punjabi)
GN-201	Drug Abuse: Problem Management & Prevention
NSS-1221/ NCC-1221/ PEY-1221	National Service Scheme-II/ National Cadet Corps- II/ Physical Education & Yoga Practices - II**
<b>SEMESTER III</b>	
AGR-211	Crop Production Technology- I (Kharif Crops)
BG-212	Fundamentals of Plant Breeding
AGE-213	Agricultural Finance and Cooperation
AGI-214	Agri informatics
FMP-215	Farm Power and Machinery
VSC-216	Production Technology for Vegetables and Spices
ENV-217	Environmental and Road Safety Awareness
STAT-218	Statistical Methods
LPM-219	Livestock and Poultry Management
NSS- 2120	National Service Scheme-III
<b>Semester IV</b>	
AGR-221	Principles of Agronomy-II (RabiCrops)
FSC-222	Production Technology for Ornamental Crops, MAP and Landscaping
REG-223	Renewable Energy and Green Technology
SOILS-224	Problematic Soils and Their Managemnet
FST-225	Production technology for Fruit and Plantation Crops

PBG-226	Principles of Seed Technology
AGR-227	Farming System and Sustainable Agriculture
AGE-228	Agriculture Marketing Trade & Prices
AGM-229	Introductory Agro-meteorology and Climate Change
ACH-211/ABM 2212/ MPT- 2213	Agrochemicals/ Agri business management/ Micro propagation Technique
NSS- 2131	National Service Scheme-IV
<b>SEMESTER V</b>	
AGR- 311	Practical Crop Production-I ( <i>Kharif Crops</i> )
AGR-312	Water Management and Micro-Irrigation
CHE-313	Chemistry of Agrochemicals, Plant Products and Growth Regulators
AGE-314	Agricultural Marketing, Trade and Prices
PPL-315	Plant Pathogens and Principles of Plant Pathology
ENT-316	Insect Pests of Crops and stored Grain
PBG-317	Principles of Plant Breeding
BIT-318	Principles of Plant Biotechnology
DAI-319	Dairy Technology
<b>Semester VI</b>	
AGR- 321	Practical Crop Production-II ( <i>RabiCrops</i> )
EST-322	Renewable Energy
STA-323	Basic Statistics
AGE-324	Production Economics, Farm Management and Agricultural Finance
PPL-325	Diseases of Field Crops and their Management
PPL-326	Diseases of Horticultural Crops and Their Management

PBG-327	Breeding of Field and Horticulture Crops
PFE-328	Protected Cultivation and Post-Harvest Technology
<b>SEMESTER VII</b>	
<b>ELECTIVE HORTICULTURE</b> <b>(FRUIT SCIENCE,VEGETABLE SCIENCE AND FLORICULTURE)</b>	
FSC-411	Nursery Management of Horticultural Crops
*FSC-412	Fundamentals of Fruit Production
VSC-413	Commercial Vegetable Production
VSC-414	Vegetable Breeding and Seed Production
**CS-415	Credit Seminar
<b>SEMESTER VII</b>	
<b>ELECTIVE CROP SCIENCE</b> <b>(AGRONOMY,SOIL SCIENCE AND AGROFORESTRY)</b>	
AGR-411	Weed Management
AGR-412	Crop Production under Special Situations
SSC-413	Analytical Techniques in Soils, Plants, Fertilizers and Water
FOR-414	Production Technology of Economic Forest Trees
**CS-415	Credit Seminar
<b>SEMESTER VII</b>	
<b>ELECTIVE CROP PROTECTION</b> <b>(ENTOMOLOGY, PLANT PATHOLOGY AND NEMATOLOGY)</b>	
ENT-411	Apiculture
PPL-412	Post-Harvest Diseases and their Management
ENT-413	Quarantine in Plant Protection
NEM-414	Plant Nematology
**CS-415	Credit Seminar
<b>SEMESTER VIII</b>	
<b>ELECTIVE HORTICULTURE</b> <b>(FRUIT SCIENCE,VEGETABLE SCIENCE AND FLORICULTURE)</b>	
FSC-421	Commercial Fruit Production

*FSC-422	Processing and Value Addition of Horticultural Crops
VSC-423	Forcing Techniques in Vegetable Production
FCL-424	Commercial Floriculture and Landscaping
**CS-415	Credit Seminar
<b>SEMESTER VIII</b>	
<b>ELECTIVE CROP SCIENCE</b>	
<b>(AGRONOMY, SOIL SCIENCE AND AGROFORESTRY)</b>	
AGR-421	Farming Systems and Sustainable Agriculture
SSC-422	Soil Physical and Biological Environment
SSC-423	Soil Survey, Classification and Mapping
AGR-424	Production Technology of Spices, Aromatic, Medicinal and Plantation Crops
**CS-415	Credit Seminar
<b>SEMESTER VIII</b>	
<b>ELECTIVE CROP PROTECTION</b>	
<b>(ENTOMOLOGY, PLANT PATHOLOGY AND NEMATOTOLOGY)</b>	
PPL-421	Bio control and Integrated Disease Management
ENT-422	Bio control and Integrated Pest Management
ENT-423	Pesticides and Plant Protection Equipment
PPL-424	Plant Disease Diagnosis
**CS-415	Credit Seminar