

BOARD OF STUDY IN AGRICULTURAL BIOLOGY

LIST OF COURSES

Course No	Course Title	Credits
First Semester		
AB 5101	Cell Biology	2
AB 5102	Water Relation and Nutrition	2
AB 5103	Plant Systematics	2
AB 5104	Plant Ecosystems	2
AB 5105	Cellular Genetics	2
AB 5106	Exploring the Genomes: Principles & Techniques	2
AB 5107	Microbial Genetics	2
AB 5108	Principles of Plant Breeding	2
AB 5109	Plant Reproductive Biology	1
AB 5110	Crop Genetic Resources	1
AB 5111	Exploration and Characterization of Plant Genetic Resources	2
AB 5112	Environmental Physiology I – Microclimate	2
AB 5113	Photosynthesis and Plant Productivity	2
AB 5114	Biosensing	2
AB 5115	Assessment of Genetic Diversity	1
AB 5116 5201	Plant Biochemistry	2
AB 5118	Polygenic Inheritance	2
AB 5119	Molecular Biology	1
AB 5120	Theory and Techniques of Plant Gene Manipulation	2
AB 5121	Characterization and Evaluation of Plant Genetic Resources	2
AB 5122	Gene Manipulation	2
AB 5125	Protein Engineering	1
AB 5126	Enzyme Production Technology	2
AB 5127	Natural Product Chemistry	2
AB 5154	Valuing Plant Genetic Resources	1
AB 5155	Molecular and Functional Glycobiology	2
AB 5195	Practicum 1 – Biology	1

AB 5196	Practicum in Biotechnology I	1
Second Semester		
AB 5202	Advanced Genetic Analysis: Genes, Genomes and Networks	2
AB 5203	Plant Breeding Techniques	2
AB 5204	<i>In Vitro</i> Techniques for Biotechnology	2
AB 5205	Stress Physiology	2
AB 5207	Environmental Physiology II – Root Environment	2
AB 5208	Plant Physiology Techniques	2
AB 5209	Nutritional Quality Improvement of Food Crops	1
AB 5210	Statistical Genomics in Biotechnology	2
AB 5211	Methods in Plant Genetic Resources Conservation	2
AB 5212	Phytochemistry	2
AB 5213	Plant Growth and Development	2
AB 5214	Biotechnology in Crop Improvement	1
AB 5215	Population Genetics	2
AB 5216	Genetic Designs	2
AB 5217	Breeding strategies of Economic Crops	2
AB 5218	Character Inheritance Mechanisms	1
AB 5220	Marine Biotechnology	1
AB 5222	Gene Expression and Developmental Genetics	2
AB 5223	Cereal Biotechnology	1
AB 5224	Secondary Metabolite Production	1
AB 5225	Biological Nitrogen Fixation	1
AB 5227	Cellular Immunology	1
AB 5228	Molecular Breeding and DNA Fingerprinting	2
AB 5229	Genetically Modified Organisms, Food, Feed and Processed Products and Biosafety	1
AB 5230	Plant Variety Protection, Intellectual Property Rights and Policy Issues	1
AB 5232	Variety Testing for Adaptability	1
AB 5233	Nanotechnology in Agriculture	1
AB 5235	Scientific Communication in Biology	1
AB 5236	Production of Transgenics	1
AB 5251	Bioindustry	1

AB 5252	Bioinformatics	2
AB 5253	Utilization of Plant Genetic Resources in Crop Improvement	1
AB 5254	Environmental Physiology III – Stress Physiology	2
AB 5256	Environmental Physiology IV – Simulation of Plant Growth	3
AB 5258	Documentation and Information Management of Plant Genetic Resources	2
AB 5295	Practicum 2 – Crop Improvement	1
AB 5296	Practicum in Biotechnology II	1
AB 5297	Project	5
AB 5298	Directed Study	2
AB 5299	Seminar	1

BOARD OF STUDY IN AGRICULTURAL ECONOMICS
LIST OF COURSES

Course No	Course Title	Credits
First Semester		
EC 5101	Microeconomic Theory I	2
EC 5102	Mathematical Economics	2
EC 5103	Mathematical Programming	2
EC 5104	Agricultural Marketing I	2
EC 5105	History of Agricultural Policies in Sri Lanka	2
EC 5106	Resource and Environmental Economics I	2
EC 5107	Project Analysis	2
EC 5108	Water Resource Economics I	2
EC 5109	Resource Management in Tropical Farming Systems	2
EC 5110	Introduction to Economics	2
EC 5111	Ecology, Conservation and Management of Natural Resources	2
EC 5112	Macroeconomic Theory I	2
EC 5113	Econometrics I	2
EC 5114	Quantitative Methods	2
EC 5120	Land Economics	2
EC 5153	Resource Planning and Management	2
EC 5154	Agricultural Finance	2
EC 5156	Livestock Economics and Marketing	2
PDEC 5101	Contemporary Issues in Development	2
PDEC 5102	Principles of Development Management	2
PDEC 5103	Techniques in Development Project Planning	2
Second Semester		
EC 5203	Development Economics	2
EC 5204	Applied Production Economics	2
EC 5207	Food and Nutrition Economics	2

EC 5208	Water Resource Economics II	2
EC 5209	Special Topics in Agricultural Economics	1
EC 5210	Managerial Resource Economics	2
EC 5212	Seminar in Sustainable Development	2
EC 5213	Agricultural Policies in Developing Countries	2
EC 5214	Agricultural Marketing and Price Analysis	2
EC 5215	International Trade	2
EC 5216	Macroeconomic Theory II	2
EC 5217	Dynamics of Resource Economics	2
EC 5218	Quantitative Policy Analysis	2
EC 5219	Resource and Environmental Economics II	2
EC 5221	Environmental Valuation	3
EC 5222	Microeconomic Theory II	2
EC 5223	Econometrics II	2
EC 5226	Field Visits	1
EC 5237	Agriculture Value-chain Management	1
EC 5297	Research Project (EE/NRM)	3
EC 5298	Directed Study	2
PDEC 5201	Research Skills for Community Development	2
PDEC 5202	Agribusiness and Enterprise Development	2
PDEC 5203	Poverty and Social Impact Analysis	2

BOARD OF STUDY IN AGRICULTURAL ENGINEERING

LIST OF COURSES

Course No	Course Title	Credits
First Semester		
AE 5101	Water for Agriculture	2
AE 5102	Thermodynamics	2
AE 5103	Hydrology and Meteorology	3
AE 5104	Engineering Drawing	2
AE 5105	Water and Society	2
AE 5106	Physical Properties of Agricultural Products	2
AE 5107	Water Quality for Agriculture and Environment	2
AE 5108	Groundwater Development	2
AE 5109	Soil Mechanics	2
AE 5110	Watershed Management	2
AE 5111	Engineering Mechanics	2
AE 5112	Farm Mechanization	2
AE 5113	Principles of Farm Machinery	2
AE 5114	Agricultural Structures and Environment	2
AE 5115	Electronics and Instrumentation in Agriculture	2
AE 5116	Farm Machinery Testing and Evaluation	1
AE 5117	Numerical Analysis in Agricultural Engineering Applications	2
AE 5118	Principles of Post-harvest Biology and Technology	2
AE 5119	Water and Industry	2
AE 5151	River Basin Planning and Management	2
AE 5152	Environmental Impact Assessment	2
AE 5153	Principles of Ergonomics in Agriculture	2
AE 5154	Application of Remote Sensing in Agriculture	2
AE 5155	Financing Water Development	2
AE 5156	Environment and Industry	3
AE 5157	Solid Waste Management	2
AE 5158	Organic Produce Certification and Marketing	1
AE 5159	Grading Packaging and Transportation of Fruits and Vegetables	2

AE 5160	Advanced Power and Machinery	2
AE 5161	Solar Energy Applications in Agriculture	2
AE 5162	Tillage Engineering	2
AE 5163	Analysis of Agricultural Systems	2
AE 5164	Combustion of Biomass	2
AE 5165	Natural Fibre Technology	2
AE 5166	Water Resources Management for Tropical Agriculture	3
AE 5166	Process control and automation	2
AE 5198	Directed Study and Seminar	2
AE 6101	Advanced Irrigation Water Management	2
AE 6102	Advanced GIS and Geo-informatics	2
AE 6103	Modeling Hydrological Systems	1
AE 6106	Innovative Technologies for Mechanization in Plantation Industry	1
GS 5101	Introduction to Geographical Information systems (GIS)	2
GS 5102	Introduction to Remote Sensing	2
GS 5103	Spatial Database Management	2
GS 5104	Fundamentals of Global Positioning Systems (GPS)	1
GS 5105	Surveying and Spatial Measurements	2
GS 5198	Directed Study	2
GS 5199	Seminar	1
GS 6101	Statistical Methods for Spatial Data analysis	2
GS 6102	Advanced Remote Sensing and Applications	2
GS 6103	Recent Advances in Geo-Informatics	2
GS 6104	Spatial Data Infrastructure	1
Second Semester		
AE 5202	Water Application Systems	2
AE 5203	Food Process Engineering	2
AE 5204	Power and Energy for Agriculture	2
AE 5205	Ecologically Sustainable Industrial Development	1
AE 5206	Fluid Mechanics	2
AE 5207	Applied Heat Transfer	2

AE 5209	Geographical Information Systems (GIS) for Natural Resources Management	2
AE 5210	Health, Sanitation and Wastewater Management	2
AE 5211	Hydraulics of Erosion and Sediment Transport	2
AE 5212	Water Supply	2
AE 5213	Bioreactor and Bio-Environment Design and Control Systems	2
AE 5214	Electrical Power and Machines	2
AE 6104	Interdisciplinary Field Research Methodology	3
AE 6105	Gender in IWRM	2
GS 5201	Fundamentals of Spatial Statistics	2
GS 5202	Thematic Mapping, Cartography and Photogrammetry	2
GS 5203	Spatial Modeling and Analysis	2
GS 5204	Advanced GIS and Applications	3
GS 5205	Advanced Digital Image Processing	2
GS 5206	Microwave Remote Sensing	2

**BOARD OF STUDY IN AGRICULTURAL EXTENSION
LIST OF COURSES**

Course No.	Course Title	Credits
First Semester		
EX 5101	Principles of Communication	2
EX 5102	Principles of Organizational Management	2
EX 5103	Adult Psychology	2
EX 5104	Developmental Sociology	2
EX 5105	Community Development	2
EX 5106	Communication for Development	2
EX 5107	Organizational Theory and Behaviour	2
EX 5108	Human Resource Management	2
EX 5109	Information Retrieval	1
EX 5110	Developmental Extension and Education	2
EX 5111	Gender and Development	2
EX 5112	Social Psychology	2
EX 5113	Organizational Leadership	2
EX 5114	Corporate Relations	2
EX 5115	Human Resource Management in the Plantation Sector	1
EX 5196	Internship	2
EX 5198	Directed Study	2
EX 5199	Seminar	1
Second Semester		
EX 5201	Developmental Journalism	2
EX 5202	ICT for Development	2
EX 5203	Project Management	2
EX 5205	Human Resource Development	2
EX 5206	Participatory Methods for Development	2
EX 5207	Management Information Systems	2
EX 5208	Social Research Methodology	2
EX 5209	Organizational Development and Change	2
EX 5210	Marketing Communication	2
EX 5211	Communication in Environment Management	2

EX 5212	Environmental Sociology	2
EX 5213	Social Impact Assessment	2
EX 5214	Extension for Livestock Production	2

BOARD OF STUDY IN ANIMAL SCIENCE

LIST OF COURSES

Course No.	Course Title	Credits
First Semester		
AS 5101	Introduction to Aquaculture and Fisheries	3
AS 5102	Comparative Anatomy and Physiology of Farm Animals	3
AS 5103	Introduction to Animal Production	2
AS 5104	Principles of Animal Nutrition	2
AS 5105	Anatomy and Physiology of Fish	2
AS 5106	Aquaculture Based Farming Systems	2
AS 5108	Avian Reproduction, Embryology and Hatchery Management	2
AS 5109	Dairy Chemistry	2
AS 5110	Health Management of Fish	2
AS 5113	Fish Systemics and Morphometrics	2
AS 5114	Integrated Livestock Systems	3
AS 5115	Laboratory Techniques in Animal Nutrition	2
AS 5116	Laboratory Techniques in Fisheries and Water Quality	2
AS 5117	Layer and Parent Stock Management	3
AS 5118	Mariculture	2
AS 5119	Meat Science	2
AS 5120	Endocrinology of Farm Animals	2
AS 5121	Monogastric Nutrition	3
AS 5122	Physiology of Lactation	2
AS 5124	Procuring, Processing and Marketing of Fluid Milk	2
AS 5125	Processing of Dairy Products	2
AS 5126	Quantitative and Molecular Genetics of Farm Animals	2
AS 5127	Ruminant Nutrition	3
AS 5128	Reproductive Physiology of Farm Animals	3
AS 5129	Selection Index and Mixed Model Methodology	3
AS 5130	Shrimp Production	3

AS 5131	Slaughter House Planning and Management	2
AS 5132	Aquatic Microbiology	1
AS 5133	Fish Biotechnology	1
AS 5134	Poultry Meat Processing Technology	1
AS 5135	Egg Technology	1
AS 5136	Introduction to Molecular Biology in Animal Science	3
AS 5151	Biochemical Genetics and Cytogenetics	2
AS 5152	Livestock Bio-diversity and Conservation	2
AS 5154	Tropical Animal Production I	3
AS 5155	Fisheries Management	3
AS 5197	Proposal Formulation and Scientific Writing	2
AS 5198	Directed Study	2
AS 5199	Seminar	1
Second Semester		
AS 5201	Advances in Forage Production and Utilization	2
AS 5202	Animal Biotechnology	3
AS 5203	Animal-Environment Interactions	2
AS 5204	Aquatic Resources Management	2
AS 5205	Avian Health and Hygiene	2
AS 5206	Broiler Production	2
AS 5207	Dairy Engineering	2
AS 5209	Fish Feeds and Nutrition	3
AS 5210	Fish Population Dynamics	2
AS 5211	Genetics and Breeding of Fish	2
AS 5212	Genetics and Breeding of Poultry	2
AS 5213	Livestock Breeding	3
AS 5214	Livestock Health and Hygiene	2
AS 5215	Marine Fisheries Management	2
AS 5216	Meat Processing Technology	2
AS 5217	Microbiology of Dairy, Meat, Fish and Egg Products	3
AS 5218	Non-ruminant Animal Production	3
AS 5219	Ornamental Fisheries Management	3
AS 5220	Ruminant Livestock Production	3

AS 5221	Shrimp and Fish Processing	2
AS 5222	Wildlife Environment	3
AS 5251	Advances in Equine Nutrition and Feeding	2
AS 5252	Animal Quarantine, Welfare and Legislation	1
AS 5253	Animal Waste Handling and Management	2
AS 5254	Tropical Animal Production II	3
AS 5255	Fish Farm Designing, Construction & Management	2
AS 5256	Slaughter House By-Product Technology	2
AS 5257	Fish Seed Production and Larval Rearing	3
AS 5258	Animal Food Safety	2
AS 5259	Dairy Biotechnology	2
AS 5260	Dairy Sanitation and Hygiene	1
AS 5261	Coast Conservation and Management	1
AS 5262	Marine Environment Pollution Prevention	1
AS 5263	Global Warming and Animal Production	2
AS 5264	Cell Biology in Animal Science	2
AS 5297	Field Visits - Animal Science	1
AS 5298	Industrial Visits - Poultry Science	1
AS 5299	Industrial Visits - Dairy and Meat Product Technology	1

BOARD OF STUDY IN BUSINESS ADMINISTRATION

LIST OF COURSES

Course No.	Course Title	Credits
First Semester		
BM 5101	Organizational Behaviour and Analysis	3
BM 5102	Strategic Human Resource Management	2
BM 5103	Accounting	2
BM 5104	Business Statistics	2
BM 5105	Business Law	2
BM 5106	Business Economics	2
BM 5107	Quantitative Management Techniques	2
BM 5108	Management Information Systems	2
BM 5109	Agribusiness Management	2
BM 5110	Organizational Diagnoses and Change	2
BM 5111	Project Management	2
BM 5112	e-Business Strategy	2
BM 5113	Business Development Seminar	2
BM 5114	Real Estate Investment and Development	2
BM 5115	Supply Chain Logistics Management	3
Second Semester		
BM 5201	Corporate Finance	2
BM 5202	Managerial Economics	2
BM 5203	Marketing Management	3
BM 5204	Strategic Management	2
BM 5205	Entrepreneurship	2
BM 5206	International Business	2
BM 5207	Research Methods for Managers	2
BM 5208	Principles of Management	2
BM 5209	Enterprise Planning and Operations Management	2
BM 5210	International Corporate Finance	2
BM 5211	International Marketing	2
BM 5212	Consumer Behaviour	2
BM 5213	Quality Management Systems	2
BM 5214	GIS for Business and Management	2
BM 5215	Planning and Entrepreneurial Venture	2

BOARD OF STUDY IN BIOSTATISTICS

LIST OF COURSES

Course No.	Course Title	Credits
First Semester		
ST 5101	Calculus and Matrix Algebra	2
ST 5102	Basic Statistics	2
ST 5103	Data Analysis using Statistical Software	3
ST 5104	Sampling Techniques	2
ST 5105	Time Series Analysis	2
ST 5106	Computer Programming	2
ST 5151	Statistical Theory	4
ST 5152	Exploratory and Robust Data Analysis	2
ST 5153	Modeling Binary Data	2
ST 5154	Statistical Genetics	2
ST 5155	Design and Analysis of Experiments	2
ST 5198	Directed Study	2
ST 5199	Seminar	1
ST 6101	Vector Analysis	2
ST 6102	Measure Theory	2
ST 6103	Group Theory	2
ST 6104	Graph Theory	3
ST 6151	Variance Components Estimation	2
PGD 5101	Basic Mathematics	2
PGD 5102	Basic Statistics	2
PGD 5103	Experimental Techniques	2
PGD 5104	Regression Analysis	2
PGD 5105	Sampling Techniques	2
PGD 5106	Use of Statistical Software	2
Second Semester		
ST 5201	Advanced Calculus	2
ST 5203	Regression Analysis	2
ST 5204	Nonparametric Statistics	2
ST 5205	Categorical Data Analysis	3

ST 5251	Statistical Methods for Analysis of Spatial Data	3
ST 5252	Design and Analysis of Epidemiological Studies and Clinical Trials	2
ST 5253	Crop Experimentation	1
ST 5254	Animal Experimentation	2
ST 5255	Statistical Quality Control	2
ST 6201	Linear Models	3
ST 6202	Multivariate Statistical Methods	3
ST 6203	Stochastic Processes	2
ST 6251	Statistical Computing	2
ST 6253	Statistical Methods for Behavioral Sciences	2
ST 6254	Advanced Design and Analysis of Experiments	2
PGD 5201	Categorical Data Analysis	2
PGD 5202	Non parametric Statistics	2
PGD 5203	Multivariate Data Analysis	2
PGD 5204	Binary Data Analysis	2
PGD 5205	Studies in Medical Research Investigations	2
PGD 5206	Statistical Applications in Business	2
PGD 5207	Special Topics	1
PGD 5208	Seminar/Independent Study	2

BOARD OF STUDY IN CROP SCIENCE

LIST OF COURSES

Course No.	Course Title	Credits
First Semester		
CS 5101	Principles of Crop Production	3
CS 5102	Plant Water Relationships I	2
CS 5103	Weed Biology	2
CS 5104	Advanced Horticulture	2
CS 5105	Crop Physiology	3
CS 5106	Seed Physiology and Technology	2
CS 5107	Protected Culture	2
CS 5108	Fruit Crop Management	2
CS 5109	Olericulture (Vegetable Crop Culture)	2
CS 5110	Forest Ecology	2
CS 5111	Agroforestry	2
CS 5112	Plantation Forestry and Environment	2
CS 5113	Forest Influences on Soil, Water and Climate	2
CS 5114	Biodiversity	2
CS 5115	Policy and Legislation Related to Forestry and Environment	1
CS 5116	Forest Systematics	2
CS 5117	Economics of Environmental Forestry	2
CS 5118	Forest Products and Utilization	1
CS 5119	Landscape Horticulture	3
CS 5120	Commercial Nursery Management	2
CS 5121	Landscape Architecture	2
CS 5122	Plant Growth Regulators	2
CS 5123	Plant Tissue Culture – Micropropagation	2
CS 5124	Field Crops in the Tropics	2
CS 5125	Tropical Cropping Ecosystems	2
CS 5126	Tropical Environments and Farming Systems	2
CS 5127	Tropical Plant Diversity and Ethno-Botany	2
CS 5128	Integrated Crop-Livestock Systems in the Tropics	2

CS 5129	Production Horticulture	3
CS 5130	Cultivation and Processing of Plantation Crops	3
CS 5131	Tropical Field Crop Production	3
CS 5132	Sustainable Garden Management	2
CS 5133	Plant Nutrient Management in Horticultural Crops	2
CS 5134	Propagation Techniques for Horticultural Crops	2
CS 5135	Horticulture in the Temperate Regions	2
CS 5136	Value addition for Horticultural Produce	1
CS 5137	Agronomy of Plantation Crops	2
CS 5138	Plantation Crop and Forestry Sector Policy and Legislation	1
CS 5139	Climate Change Adaptation, Mitigation and Carbon Trading	1
CS 5140	Quality Assurance in Plantation Industries	1
CS 5141	Emerging Trends in the Plantation Industry	1
CS 5142	Industrial Training	2
CS 5143	Disaster Risk Reduction Through Ecological Approaches	1
CS 5144	Integrated Plantation Crops-Other Crops-Animal-Fish Based Farming Systems	1
Second Semester		
CS 5201	Crop Ecology	2
CS 5202	Weed Control	2
CS 5203	Climate Change and Crop Production	3
CS 5204	Crop Management Techniques	3
CS 5206	Postharvest Physiology and Management of Horticultural Produce	2
CS 5207	Physiology of Cereal Production	2
CS 5208	Organic Crop Production	2
CS 5209	Plant Water Relationships II	2
CS 5211	Tree Crop Physiology	2
CS 5212	Scientific Writing and Proposal Formulation	2
CS 5213	Participatory Forest Management	2
CS 5214	Natural Forest Management	2
CS 5215	Ecological Interaction of Trees and Crops	2
CS 5216	Urban Forestry and Arboriculture	2
CS 5217	Forest Tree Improvement and Genetic Conservation	2

CS 5218	Quantitative Techniques in Forestry	2
CS 5219	Advances in Agroforestry	1
CS 5220	Forest Growth Modeling	2
CS 5221	Forest Biometrics	2
CS 5222	Commercial Floriculture	3
CS 5223	Indoor Gardening for Interior Decorations	2
CS 5224	Landscape Designs	3
CS 5225	Advanced Plant Tissue Culture	2
CS 5229	Plantation Agriculture in Tropics	2
CS 5230	Tropical Horticulture	2
CS 5231	Crop Simulation Modelling	2
CS 5232	Physiological Basis of Horticultural Crop Production	2
CS 5233	Bioactive Compounds in Fruits and Vegetables	1
CS 5234	Directed Study in Horticulture	2
CS 5235	Entrepreneurship development in horticulture	1
CS 5236	Biotechnology in Horticultural Crops	2
CS 5237	Agricultural Value-chain Management	1
CS 5238	Yield Physiology of Plantation Crops	2
CS 5239	Processing and Value Addition of Plantation Crop Products	2
CS 5240	Plantation Crop Improvement	2
CS 5298	Directed Study and Seminar	2

BOARD OF STUDY IN FOOD SCIENCE AND TECHNOLOGY

LIST OF COURSES

Course No	Course Title	Credits
First Semester		
FT 5101	Principles of Food Science	2
FT 5102	Food Physics	2
FT 5103	Biochemistry	3
FT 5104	Food Chemistry	2
FT 5105	Food Microbiology	2
FT 5106	Food Preservation	2
FT 5107	Science and Technology of Commodity Processing	2
FT 5111	Food Safety	2
FT 5112	Food Protection Systems	2
FT 5113	Human Nutrition	3
FT 5114	Nutritional and Health Aspects of Food	2
FT 5151	Sociology of Food and Nutrition	2
FT 5152	Sports Nutrition	2
FT 5153	Nutrition Advocacy and Counseling	2
FT 5154	Functional Foods and Nutraceuticals	2
FT 5155	Food Biotechnology	2
FT 5156	Food Regulations and Quality Management Systems	2
FT 5157	Beverage Technology	2
FT 5199	Seminar	1
Second Semester		
FT 5201	Food Plant Layout and Operations	1
FT 5203	Production and Marketing Operations in Food Manufacturing Organizations	2
FT 5204	Industrial Exposure	1
FT 5205	Cereal Chemistry and Bakery Products Technology	3
FT 5206	Horticultural Products Technology	2
FT 5207	Meat and Fish Science and Technology	3
FT 5208	Poultry and Egg Products Technology	2
FT 5209	Processing of Milk and Milk Products	2

FT 5210	Processing of Kernel and Nut Products	1
FT 5211	Spice Processing Technology	1
FT 5213	Techniques in Research and Scientific Writing	2
FT 5214	Community Nutrition	2
FT 5215	Assessment of Nutritional Status	2
FT 5216	Planning and Management of Food and Nutrition Programmes	2
FT 5217	Dietetics	2
FT 5218	Nutrition Epidemiology	2
FT 5221	Food Lipids	2
FT 5222	Food Process Engineering and Unit Operations	2
FT 5223	Food Analysis	3
FT 5224	Sensory Evaluation of Foods	2
FT 5225	Current Topics in Nutrition	1
FT 5226	Consumer Driven Food Product Development	2
FT 5298	Directed Study	2

BOARD OF STUDY IN PLANT PROTECTION

LIST OF COURSES

Course No	Course Title	Credits
First Semester		
PP 5101	General Microbiology	2
PP 5102	Plant Pathology	2
PP 5103	Insect Morphology	3
PP 5104	Insect Physiology	2
PP 5105	Clinical Plant Pathology	2
PP 5106	Pesticide Toxicology	2
PP 5107	Pesticide Technology	1
PP 5108	Methods in Microbiology & Microbial Technology	3
PP 5109	Molecular Microbiology	2
PP 5110	Microbial Genomics	2
PP 5151	Plant Molecular Biology	2
PP 5152	Indigenous Technology for Plant Protection	2
PP 5153	Soil Borne Pathogens and Root Diseases	2
PP 5154	Epidemiology	2
PP 5155	Immunology	2
PP 5156	Integrated Pest Management in the Tropics (for M.Sc. in Tropical Agriculture)	
PP 5158	Methods of Invertebrate Ecology	2
PP 5196	Practicum in Molecular and Applied Microbiology	2
PP 5197	Practicum in Plant Protection Technology	2
PP 5198	Directed Study	2
PP 5199	Seminar	1
Second semester		
PP 5201	Insect Systematics and Identification	2
PP 5202	Insect Ecology and Behaviour	2
PP 5203	Nematology	2
PP 5204	Biological Control of Agricultural Pest	2
PP 5206	Integrated Pest Management	2

PP 5207	Plant Resistance to Insect Pests	2
PP 5208	Molecular Diagnostic for Plant Protection	2
PP 5209	Post Harvest Protection	2
PP 5210	Acarology	2
PP 5211	Microorganisms with Medical Importance	2
PP 5212	Aquatic Microbiology and Water Quality	2
PP 5213	Industrial Microbiology and Biotechnology	2
PP 5214	Molecular Plant Microbial Interactions	2
PP 5251	Insect Toxins and Insect Transmission of Plant Disease	2
PP 5252	Molecular Virology	2
PP 5253	Insect Pests and Diseases of Forests	2
PP 5254	Disease Management in Floricultural Crops	2
PP 5255	Insect Pathology and Microbial Control of Insect Pests	2
PP 5256	Techniques and Strategies in Plant Molecular Biology	3
PP 5257	Crop Protection in the Tropics	2
PP 5259	Insect Pest Management in Horticultural Crops	2
PP 5260	Advances in Plant Protection Methods for Plantation Crops and Forest Species	1

BOARD OF STUDY IN SOIL SCIENCE

LIST OF COURSES

Course No	Course Title	Credits
First Semester		
SS 5101	Fundamentals of Soil Science	2
SS 5102	Physical Properties and Processes in Soils	2
SS 5103	Mineralogical and Chemical Properties of Soils	3
SS 5104	Plant Nutrition	2
SS 5105	Introduction to Tropical Soils	1
SS 5106 *	Environmental Pollution and Control	2
SS 5107	Formation and Characteristics of Tropical Soils	2
SS 5108 *	Soil Ecosystems and their Functions	2
SS 5109 *	Microbial Ecology	3
SS 5110	Environmental Soil Physics	3
SS 5111	Environmental Soil Chemistry	3
SS 5112 *	Soil Plant - Water Systems	3
SS 5113	Environmental Microbiology	2
SS 5114	Digital Soil Mapping	2
SS 5151	Management of Soil Organic Matter	2
SS 5152	Analytical Techniques in Soil, Plant, Water & Fertilizer	3
SS 5153	Soil Morphology and Classification	2
SS 5154	Plant- Microbe Interactions	2
SS 5155	Management of Tropical Soils	3
SS 5156	Water Quality and Environment	2
SS 5198	Directed Study	2
SS 5199	Seminar	1
SS 6101	Tracer Techniques in Soil and Plant Studies	2
Second Semester		
SS 5201	Soil Fertility and Fertilizers	3
SS 5202	Advanced Plant Nutrition	2
SS 5203	Degradation and Conservation of Tropical Soils	2

SS 5204	Management of Tropical Uplands	1
SS 5205	Management of Tropical Wetlands	1
SS 5206	Social and legal Aspects of Land Management	2
SS 5207	Reclamation & Management of Problem Soils in Sri Lanka	2
SS 5208	Field Characterization of Soils	2
SS 5209	Land Use Planning	2
SS 5211	Soil Enzymology	1
SS 5212	Soils of Sri Lanka	1
SS 5251	Organic Pollutants and Environment	2
SS 5252	Environmental Impact of Inorganic Pollutants and Radio-nuclides	3
SS 5253	Solid Waste and Environment	2
SS 5254	Environmental Biotechnology	2
SS 5255 *	Special Topics Related to Microbiology	2
SS 5298	Directed Study	2
SS 5299	Seminar	1
SS 6201	Techniques for Efficient Plant Nutrient Management	2
SS 6202	Environmental Soil Mineralogy	2
SS 6203	Land Use and Environment	1
SS 6204	Remediation of Contaminated Soil and Water	2
SS 6205	Advanced Instrumentation in Environmental Research	2
SS 6206	Soil Environmental Modeling	2
SS 6207	Applications of Digital Soil Mapping	2

- Offered for non Environmental Soil Science degree students