

BIOCHEMISTRY

CODE	COURSE TITLE	CREDITS
BIOCHEM 501	BASIC BIOCHEMISTRY	3+1
BIOCHEM 502	INTERMEDIARY METABOLISM	3+0
BIOCHEM 503	ENZYMOLGY	2+1
BIOCHEM 504	MOLECULAR BIOLOGY	2+1
BIOCHEM 505	BIOCHEMICAL TECHNIQUES	1+2
BIOCHEM 506	IMMUNO CHEMISTRY	2+1
BIOCHEM 507	PLANT BIOCHEMISTRY	3+0
BIOCHEM 508	ANIMAL BIOCHEMISTRY	3+0
BIOCHEM 509	FOOD AND NUTRITIONAL BIOCHEMISTRY	2+1
BIOCHEM 510	CARBON AND NITROGEN METABOLISM	2+1
BIOCHEM 511	BIOCHEMISTRY OF CEREAL,OILSEEDS AND PULSES	2+0
BIOCHEM 591	MASTER'S SEMINAR	1+0
BIOCHEM 599	MASTER'S RESEARCH	20
BIOCHEM 601	ADVANCED ENZYMOLOGY	2+0
BIOCHEM 602	ADVANCED MOLECULAR BIOLOGY	3+0
BIOCHEM 603	BIOCHEMISTRY OF BIOTIC AND ABIOTIC STRESS	3+0
BIOCHEM 604	CURRENT TOPICS IN BIOCHEMISTRY	1+0
BIOCHEM 605	FUNCTIONAL GENOMICS AND METABOLOMICS	3+0
BIOCHEM 606	BIOMEMBRANES	2+0
BIOCHEM 607	ADVANCED TECHNIQUES IN BIOCHEMISTRY	0+2
BIOCHEM 691	DOCTORAL SEMINAR I	1+0
BIOCHEM 692	DOCTORAL SEMINAR II	1+0
BIOCHEM 699	DOCTORAL RESEARCH	45

MICROBIOLOGY

CODE	COURSE TITLE	CREDITS
MICRO 501	PRINCIPLES OF MICROBIOLOGY	3+1
MICRO 502	MICROBIAL PHYSIOLOGY AND METABOLISM	3+1
MICRO 503	MICROBIAL GENETICS	2+1
MICRO 504	SOIL MICROBIOLOGY	2+1
MICRO 505	MICROBIAL BIOTECHNOLOGY	2+1
MICRO 506	FOOD AND DAIRY MICROBIOLOGY	2+1
MICRO 507	BACTERIOPHAGES	1+1
MICRO 508	ENVIRONMENTAL MICROBIOLOGY	2+1
MICRO 509	PLANT-MICROBE INTERACTIONS	3+0
MICRO 510	INDUSTRIAL MICROBIOLOGY	2+1
MICRO 511	BIOFERTILIZER TECHNOLOGY	1+1
MICRO 512	CYANOBACTERIAL AND ALGAL BIOTECHNOLOGY	2+0
MICRO 591	MASTER'S SEMINAR	1+0
MICRO 599	MASTER'S RESEARCH	20
MICRO 601	ADVANCES IN FERMENTATION	2+1
MICRO 602	ADVANCED MICROBIAL PHYSIOLOGY	2+0
MICRO 603	REGULATION OF MICROBIAL BIOSYNTHESIS	2+0
MICRO 604	CURRENT TOPICS IN SOIL MICROBIOLOGY	2+0

MICRO 691	DOCTORAL SEMINAR I	1+0
MICRO 692	DOCTORAL SEMINAR II	1+0
MICRO 699	DOCTORAL RESEARCH	45

PLANT PHYSIOLOGY

CODE	COURSE TITLE	CREDITS
PP 501	PRINCIPLES OF PLANT PHYSIOLOGY	3+1
PP 502	PLANT DEVELOPMENTAL BIOLOGY – PHYSIOLOGICAL AND MOLECULAR BASIS	2+0
PP 503	PHYSIOLOGICAL AND MOLECULAR RESPONSES OF PLANTS TO ABIOTIC STRESSES	2+1
PP 504	HORMONAL REGULATION OF PLANT GROWTH AND DEVELOPMENT	2+1
PP 506	PHYSIOLOGY OF GROWTH AND YIELD AND MODELING	1+1
PP 507	GENOME ORGANIZATION IN HIGHER PLANTS	2+1
PP 508	MORPHOGENESIS, TISSUE CULTURE AND TRANSFORMATION	2+1
PP 509	PHYSIOLOGY OF CROP PLANTS – SPECIFIC CASE STUDIES	2+0
PP 510	PHYSIOLOGICAL AND MOLECULAR ASPECTS OF PHOTOSYNTHESIS- CARBON AND NITROGEN ASSIMILATION	2+1
PP 511	MINERAL NUTRITION	2+1
PP 591	MASTER'S SEMINAR	1+0
PP 599	MASTER'S RESEARCH	20
PP 601	FUNCTIONAL GENOMICS AND GENES ASSOCIATED WITH A FEW PHYSIOLOGICAL PROCESSES	2+0
PP602	SIGNAL PERCEPTIONS AND TRANSDUCTION AND REGULATION OF PHYSIOLOGICAL PROCESSES	2+0
PP 603	MOLECULAR APPROACHES FOR IMPROVING PHYSIOLOGICAL TRAITS	2+1
PP 604	TECHNIQUES IN PLANT PHYSIOLOGY	1+2
PP 605	CLIMATE CHANGE AND CROP GROWTH	2+0
PP 606	POST HARVEST PHYSIOLOGY	2+0
PP 607	WEED PHYSIOLOGY AND HERBICIDE ACTION	1+1
PP 608	SEED PHYSIOLOGY	2+1
PP 691	DOCTORAL SEMINAR I	1+0
PP 692	DOCTORAL SEMINAR II	1+0
PP 699	DOCTORAL RESEARCH	45

PLANT MOLECULAR BIOLOGY AND BIOTECHNOLOGY

CODE	COURSE TITLE	CREDITS
MBB 501	PRINCIPLES OF BIOTECHNOLOGY	2+1
MBB 502	FUNDAMENTALS OF MOLECULAR BIOLOGY	3+0
MBB 503	MOLECULAR CELL BIOLOGY	3+0
MBB 504	PLANT TISSUE CULTURE & GENETIC TRANSFORMATION	1+2
MBB 505	TECHNIQUES IN MOLECULAR BIOLOGY I	0+3

MBB 506	MICROBIAL/ INDUSTRIAL BIOTECHNOLOGY	2+1
MBB 507	MOLECULAR BREEDING	2+0
MBB 508	GENOMICS & PROTEOMICS	2+0
MBB 509	TECHNIQUES IN MOLECULAR BIOLOGY II	0+3
MBB 510	BIOSAFETY, IPR AND BIOETHICS	2+0
MBB 511	ANIMAL BIOTECHNOLOGY	3+0
MBB 512	IMMUNOLOGY AND MOLECULAR DIAGNOSTICS	2+1
MBB 513	NANO-BIOTECHNOLOGY	3+0
MBB 551	PRINCIPLES OF GENETICS	2+1
MBB 552	BASIC BIOCHEMISTRY	2+1
MBB 553,	BIostatISTICS AND COMPUTERS	2+1
MBB 554	PRINCIPLES OF MICROBIOLOGY	2+1
MBB 555	INTRODUCTION TO BIOINFORMATICS	2+1
MBB 556	ENVIRONMENTAL BIOTECHNOLOGY	3+0
MBB 557	MOLECULAR CYTOGENETICS	2+1
MBB 558	MOLECULAR FARMING	1+1
MBB 591	MASTER'S SEMINAR	1+0
MBB 599	MASTER'S RESEARCH	20
MBB 601	ADVANCES IN PLANT MOLECULAR BIOLOGY	3+0
MBB 602	ADVANCES IN GENETIC ENGINEERING	3+0
MBB 603	ADVANCES IN MICROBIAL BIOTECHNOLOGY	3+0
MBB 604	ADVANCES IN CROP BIOTECHNOLOGY	3+0
MBB 605	ADVANCES IN FUNCTIONAL GENOMICS AND PROTEOMICS	2+0
MBB 606	COMMERCIAL PLANT TISSUE CULTURE	2+0
MBB 607	ADVANCES IN ANIMAL BIOTECHNOLOGY	2+0
MBB 691	DOCTORAL SEMINAR I	1+0
MBB 692	DOCTORAL SEMINAR II	1+0
MBB 699	DOCTORAL RESEARCH	45

GENETICS AND PLANT BREEDING

CODE	COURSE TITLE	CREDITS
GP501	PRINCIPLES OF GENETICS	2+1
GP502	PRINCIPLES OF CYTOGENETICS	2+1
GP503	PRINCIPLES OF PLANT BREEDING	2+1
GP504	PRINCIPLES OF QUANTITATIVE GENETICS	2+1
GP505	MUTAGENESIS AND MUTATION BREEDING	2+1
GP506	POPULATION GENETICS	1+1
GP507	HETEROSIS BREEDING	1+1
GP508	CELL BIOLOGY AND MOLECULAR GENETICS	2+1
GP509	BIOTECHNOLOGY FOR CROP IMPROVEMENT	2+1
GP510	BREEDING FOR BIOTIC AND ABIOTIC STRESS RESISTANCE	2+1
GP511	BREEDING CEREALS, FORAGES AND SUGARCANE	2+1

GP512	BREEDING LEGUMES, OILSEEDS AND FIBRE CROPS	2+1
GP513	BREEDING FOR QUALITY TRAITS	1+1
GP514	GENE REGULATION AND EXPRESSION	2+0
GP515	MAINTENANCE BREEDING, CONCEPTS OF VARIETY RELEASE AND SEED PRODUCTION	1+1
GP 516	GERMPLASM COLLECTION, EXCHANGE AND QUARANTINE	2 +1
GP 517	DATA BASE MANAGEMENT, EVALUATION AND UTILIZATION OF PGR	2+1
GP 518	GENETIC CONTROL OF PLANT REPRODUCTION	2+1
GP 519	BREEDING FOR VEGETABLE CROPS	2+1
GP591	MASTER'S SEMINAR	1+0
GP599	MASTER'S RESEARCH	20
GP601	PLANT GENETIC RESOURCES AND THEIR UTILIZATION	2+0
GP602	ADVANCES IN QUANTITATIVE GENETICS	2+1
GP603	GENOMICS IN CROP IMPROVEMENT	2+1
GP604	CELLULAR AND CHROMOSOMAL MANIPULATIONS IN CROP IMPROVEMENT	2+1
GP605	ADVANCED PLANT BREEDING SYSTEMS	2+0
GP606	CROP-EVOLUTION	2+1
GP607	BREEDING DESIGNER CROPS	1+1
GP608	ADVANCES IN BREEDING OF MAJOR FIELD CROPS	3+0
GP609	MICROBIAL GENETICS	2+1
GP610	<i>IN SITU</i> AND <i>EX SITU</i> CONSERVATION OF GERMPLASM	2 +1
GP 691	DOCTORAL SEMINAR I	1+0
GP 692	DOCTORAL SEMINAR II	1+0
GP 699	DOCTORAL RESEARCH	45

SEED SCIENCE AND TECHNOLOGY

CODE	COURSE TITLE	CREDITS
SST 501	FLORAL BIOLOGY, SEED DEVELOPMENT & MATURATION	1+1
SST 502	PRINCIPLES OF SEED PRODUCTION	2+0
SST 503	SEED PRODUCTION IN FIELD CROPS	2+1
SST 504	SEED PRODUCTION IN VEGETABLES	2+1
SST 505	SEED PRODUCTION IN FLOWER, MEDICINAL FRUITS AND PLANTATION CROPS	2+1
SST 506	SEED LEGISLATION AND CERTIFICATION	2+1
SST 507	SEED PROCESSING AND STORAGE	2+1
SST 508	SEED QUALITY TESTING	2+1
SST 509	SEED PHYSIOLOGY	2+1
SST 510	SEED PATHOLOGY	2+1
SST 511	SEED ENTOMOLOGY	2+1
SST 512	SEED PRODUCTION IN PASTURE, FORAGE AND GREEN MANURE CROPS	2+1
SST 513	SEED STORAGE AND DETERIORATION	1+1

SST 514	SEED MARKETING AND MANAGEMENT	1+1
SST 515	EMERGING TRENDS IN SEED QUALITY ENHANCEMENT	1+1
SST 516	DATA BASE MANAGEMENT, EVALUATION AND UTILIZATION OF PGR	2+1
SST 591	MASTER'S SEMINAR	1+0
SST 599	MASTER'S RESEARCH	20
SST 601	HYBRID SEED PRODUCTION	1+1
SST 602	<i>INSITU AND EX SITU</i> CONSERVATION OF GERMPLASM	2+1
SST 603	TESTING FOR GENUINENESS & PURITY OF CULTIVARS	1+1
SST 604	DUS TESTING FOR PLANT VARIETY PROTECTION	2+1
SST 605	ADVANCES IN SEED SCIENCE RESEARCH	1+0
SST 691	DOCTORAL SEMINAR I	1+0
SST 692	DOCTORAL SEMINAR II	1+0
SST 699	DOCTORAL RESEARCH	45

AGRICULTURAL METEOROLOGY

CODE	COURSE TITLE	CREDITS
AGM 501	FUNDAMENTALS OF METEOROLOGY AND CLIMATOLOGY	2+1
AGM 502	FUNDAMENTALS OF AGRICULTURAL METEOROLOGY	2+1
AGM.503	MICROMETEOROLOGY	2+1
AGM 504	AGRO-METEOROLOGICAL MEASUREMENTS AND INSTRUMENTATION	1+2
AGM 505	SOIL WATER BALANCE CLIMATOLOGY	2+1
AGM 506	CROP WEATHER MODELS	1+2
AGM 507	WEATHER MODIFICATION AND RISK MANAGEMENT STRATEGIES	2+0
AGM 508	PRINCIPLES OF REMOTE SENSING AND ITS APPLICATIONS IN AGRICULTURE	2+1
AGM 509	APPLIED AGRICULTURAL CLIMATOLOGY	1+2
AGM 591	MASTER'S SEMINAR	1+0
AGM 599	MASTER'S RESEARCH	20
AGM 601	CLIMATE CHANGE AND SUSTAINABLE DEVELOPMENT	2+1
AGM 602	WEATHER FORECASTING	2+1
AGM 603	AIR POLLUTION METEOROLOGY	2+1
AGM 604	WEATHER, CLIMATE AND LIVESTOCK	2+1
AGM 605	ANALYTICAL TOOLS AND METHODS FOR AGRO-METEOROLOGY	2+1
AGM 606	STRATEGIC USE OF CLIMATIC INFORMATION	2+1
AGM 607	MATHEMATICS IN AGRICULTURE AND BIOLOGY	2+1
AGM 608	DATABASE MANAGEMENT AND COMMERCIALIZATION OF AGROMETEOROLOGICAL DATA IN E-SERVICES	1+2
AGM 691	DOCTORAL SEMINAR I	1+0
AGM 692	DOCTORAL SEMINAR II	1+0
AGM 699	DOCTORAL RESEARCH	45

AGRONOMY

Course No.	Title of course	Credit
AGRON 501	MODERN CONCEPTS IN CROP PRODUCTION	3+0
AGRON 502	PRINCIPLES AND PRACTICES OF SOIL FERTILITY AND NUTRIENT MANAGEMENT	2+1
AGRON 503	PRINCIPLES AND PRACTICES OF WEED MANAGEMENT	2+1
AGRON 504	PRINCIPLES AND PRACTICES OF WATER MANAGEMENT	2+1
AGRON 505	AGROMETEOROLOGY AND CROP WEATHER FORECASTING	2+1
AGRON 506	AGRONOMY OF MAJOR CEREALS AND PULSES	2+1
AGRON 507	AGRONOMY OF OILSEED, FIBRE AND SUGAR CROPS	2+1
AGRON 508	AGRONOMY OF MEDICINAL, AROMATIC AND UNDER UTILIZED CROPS	2+1
AGRON 509	AGRONOMY OF FODDER AND FORAGE CROPS	2+1
AGRON 510	AGROSTOLOGY AND AGROFORESTRY	2+1
AGRON 511	CROPPING SYSTEMS	2+0
AGRON 512	DRY LAND FARMING	2+1
AGRON 513	PRINCIPLES AND PRACTICES OF ORGANIC FARMING	2+1
AGRON 591	MASTER'S SEMINAR	1+0
AGRON 599	MASTER'S RESEARCH	20
AGRON 601	CURRENT TRENDS IN AGRONOMY	3+0
AGRON 602	CROP ECOLOGY	2+0
AGRON 603	CROP PRODUCTION AND SYSTEM MODELING	2+1
AGRON 604	ADVANCES IN CROP GROWTH AND PRODUCTIVITY	2+1
AGRON 605	IRRIGATION MANAGEMENT	2+1
AGRON 606	ADVANCES IN WEED MANAGEMENT	2+0
AGRON 607	INTEGRATED FARMING SYSTEMS	2+0
AGRON 608	SOIL CONSERVATION AND WATERSHED MANAGEMENT	2+1
AGRON 609	STRESS CROP PRODUCTION	2+1
AGRON 691	DOCTORAL SEMINAR I	1+0
AGRON 692	DOCTORAL SEMINAR II	1+0
AGRON 699	DOCTORAL RESEARCH	45

SOIL SCIENCE

CODE	COURSE TITLE	CREDITS
SOILS 501	SOIL PHYSICS	2+1
SOILS 502	SOIL FERTILITY AND FERTILIZER USE	3+1
SOILS 503	SOIL CHEMISTRY	2+1
SOILS 504	SOIL MINERALOGY, GENESIS, CLASSIFICATION AND SURVEY	2+1
SOILS 505	SOIL EROSION AND CONSERVATION	2+1
SOILS 506	SOIL BIOLOGY AND BIOCHEMISTRY	2+1
SOILS 507	GEOMORPHOLOGY AND GEOCHEMISTRY	2+0

SOILS 508	RADIOISOTOPES IN SOIL AND PLANT STUDIES	1+1
SOILS 509	SOIL, WATER AND AIR POLLUTION	2+1
SOILS 510	REMOTE SENSING AND GIS TECHNIQUES FOR SOIL AND CROP STUDIES	2+1
SOILS 511	ANALYTICAL TECHNIQUES AND INSTRUMENTAL METHODS IN SOIL AND PLANT ANALYSIS	0+2
SOILS 512	SYSTEM APPROACHES IN SOIL AND CROP STUDIES	2+1
SOILS 513	MANAGEMENT OF PROBLEMATIC SOILS AND WATERS	2+1
SOILS 514	FERTILIZER TECHNOLOGY	1+0
SOILS 515	LAND DEGRADATION AND RESTORATION	1+0
SOILS 591	MASTER'S SEMINAR	1+0
SOILS 599	MASTER'S RESEARCH	20
SOILS 601	ADVANCES IN SOIL PHYSICS	2+0
SOILS 602	ADVANCES IN SOIL FERTILITY	2+0
SOILS 603	PHYSICAL CHEMISTRY OF SOILS	2+0
SOILS 604	SOIL GENESIS AND MICROPEDOLOGY	2+0
SOILS 605	BIOCHEMISTRY OF SOIL ORGANIC MATTER	2+0
SOILS 606	LAND USE PLANNING AND WATERSHED MANAGEMENT	2+0
SOILS 691	DOCTORAL SEMINAR I	1+0
SOILS 692	DOCTORAL SEMINAR II	1+0
SOILS 699	DOCTORAL RESEARCH	45

ENTOMOLOGY

CODE	COURSE TITLE	CREDITS
ENT 501	INSECT MORPHOLOGY	1+1
ENT 502	INSECT ANATOMY, PHYSIOLOGY AND NUTRITION	2+1
ENT 503 / NEMA 502	PRINCIPLES OF TAXONOMY	2+0
ENT 504	CLASSIFICATION OF INSECTS	2+1
ENT 505	INSECT ECOLOGY	1+1
ENT 506	INSECT PATHOLOGY	1+1
ENT 507	BIOLOGICAL CONTROL OF CROP PESTS AND WEEDS	1+1
ENT 508	TOXICOLOGY OF INSECTICIDES	2+1
ENT 509	PLANT RESISTANCE TO INSECTS	1+1
ENT 510 / NEMA 512	PRINCIPLES OF INTEGRATED PEST MANAGEMENT	1+1
ENT 511	PESTS OF FIELD CROPS	1+1
ENT 512	PESTS OF HORTICULTURAL AND PLANTATION CROPS	1+1
ENT 513	STORAGE ENTOMOLOGY	1+1
ENT 514 / PL.PATH 514	INSECT VECTORS OF PLANT VIRUSES AND OTHER PATHOGENS	1+1
ENT 515	GENERAL ACAROLOGY	1+1
ENT 516	SOIL ARTHROPODS AND THEIR MANAGEMENT	1+1
ENT 517	TECHNIQUES IN PLANT PROTECTION	0+1

ENT 519	COMMERCIAL ENTOMOLOGY	1+1
ENT 520 / NEMA 514 / PL.PATH 520	PLANT QUARANTINE	2+0
ENT 591	MASTER'S SEMINAR	1+0
ENT 599	MASTER'S RESEARCH	20
ENT 601	ADVANCED INSECT SYSTEMATICS	1+2
ENT 602	IMMATURE STAGES OF INSECTS	1+1
ENT 603	ADVANCED INSECT PHYSIOLOGY	2+0
ENT 604	ADVANCED INSECT ECOLOGY	1+1
ENT 605	INSECT BEHAVIOUR	1+1
ENT 606	RECENT TRENDS IN BIOLOGICAL CONTROL	1+1
ENT 607	ADVANCED INSECTICIDE TOXICOLOGY	2+1
ENT 608	ADVANCED HOST PLANT RESISTANCE	1+1
ENT 609	ADVANCED ACAROLOGY	1+1
ENT 610	AGRICULTURAL ORNITHOLOGY	1+1
ENT 611	MOLECULAR APPROACHES IN ENTOMOLOGICAL RESEARCH	1+1
ENT 612	ADVANCED INTEGRATED PEST MANAGEMENT	2+0
ENT 613 / PL PATH 606	PLANT BIOSECURITY AND BIOSAFETY	2+0
ENT 691	DOCTORAL SEMINAR -I	1+0
ENT 692	DOCTORAL SEMINAR- II	1+0
ENT 699	DOCTORAL RESEARCH	(45

NEMATOLOGY

CODE	COURSE TITLE	CREDITS
NEMA 501	PRINCIPLES OF NEMATOLOGY	2+1
NEMA 502 ENT 503	PRINCIPLES OF TAXONOMY	2+0
NEMA 503	STRUCTURAL ORGANIZATION OF NEMATODES	2+1
NEMA 504	CLASSIFICATION OF NEMATODES	2+1
NEMA 505	NEMATOLOGICAL TECHNIQUES	1+2
NEMA 506	NEMATODE DISEASES OF CROPS	3+1
NEMA 507	NEMATODE BIOLOGY AND PHYSIOLOGY	2+1
NEMA 508	NEMATODE ECOLOGY	2+1
NEMA 509	NEMATODE INTERACTIONS WITH OTHER ORGANISMS	2+1
NEMA 510	NEMATODE MANAGEMENT	2+1
NEMA 511	BENEFICIAL NEMATODES	1+1
NEMA 512/ ENT 510	PRINCIPLES OF INTEGRATED PEST MANAGEMENT	1+1
NEMA 513/ PL PATH513	DISEASE RESISTANCE IN PLANTS	2+0
NEMA 514/ ENT 520	PLANT QUARANTINE	2+0
NEMA 591	MASTER'S SEMINAR	1+0
NEMA 599	MASTER'S RESEARCH	20

NEMA 601	ADVANCES IN STRUCTURE AND SYSTEMATICS OF NEMATODES	2+1
NEMA 602	CURRENT TOPICS IN NEMATODE DISEASE DEVELOPMENT AND HOST RESISTANCE	2+1
NEMA 603	ADVANCES IN NEMATODE MANAGEMENT	2+1
NEMA 604	PHYSIOLOGICAL AND MOLECULAR NEMATOLOGY	2+1
NEMA 605/ PL PATH 606	PLANT BIOSECURITY AND BIOSAFETY	2+0
NEMA 691	DOCTORAL SEMINAR I	1+0
NEMA 692	DOCTORAL SEMINAR II	1+0
NEMA 699	DOCTORAL RESEARCH	45

PLANT PATHOLOGY

CODE	COURSE TITLE	CREDITS
PL PATH 501	MYCOLOGY	2+1
PL PATH 502	PLANT VIROLOGY	2+1
PL PATH 503	PLANTBACTEIDODOLOGY	2+1
PL PATH 504	PRINCIPLES OF PLANT PATHOLOGY	3+0
PL PATH 505	DETECTION AND DIAGNOSIS OF PLANT DISEASES	0+2
PL PATH 506	PRINCIPLES OF PLANT DISEASE MANAGEMENT	2+1
PL PATH 507	DISEASES OF FIELD AND MEDICINAL CROPS	2+1
PL PATH 508	DISEASES OF FRUITS, PLANTATION AND ORNAMENTAL CROPS	2+1
PL PATH 509	DISEASES OF VEGETABLE AND SPICES CROPS	2+1
PL PATH 510	SEED HEALTH TECHNOLOGY	2+1
PL PATH 511	CHEMICALS IN PLANT DISEASE MANAGEMENT	2+1
PL PATH 512	ECOLOGY OF SOIL-BORNE PLANT PATHOGENS	2+1
PL PATH 513	DISEASE RESISTANCE IN PLANTS	2+0
PL PATH 514/ ENT 514	INSECT VECTORS OF PLANT VIRUSES AND OTHER PATHOGENS	1+1
PL PATH 515	BIOLOGICAL CONTROL OF PLANT DISEASES	2+1
PL PATH 516	INTEGRA TED DISEASE MANAGEMENT	2+1
PL PATH 517	MUSHROOM PRODUCTION TECHNOLOGY	2+1
PL PATH 518	EPIDEMIOLOGY AND FORECASTING OF PLANT DISEASES	2+1
PL PATH 519	POST HARVEST DISEASES	2+1
PL PATH 520/ ENT 520	PLANT QUARANTINE	2+0
PL PATH 591	MASTER'S SEMINAR	1+0
PL PATH 599	MASTER'S RESEARCH	20
PL PATH 601	ADVANCED MYCOLOGY	2+1
PL PATH 602	ADVANCED VIROLOGY	2+1
PL PATH 603	ADVANCEDBACTEIDODOLOGY	2+1
PL PATH 604	MOLECULAR BASIS OF HOST-PATHOGEN INTERACTION	2+1
PL PATH 605	PRINCIPLES AND PROCEDURES OF CERTIFICATION	1+0
PL PATH 606	PLANT BIOSECUIDTY AND BIOSAFETY	2+0
PL PATH 691	DOCTORAL SEMINAR I	1+0
PL PATH 692	DOCTORAL SEMINAR II	1+0
PL PATH 699	DOCTORAL RESEARCH	45

AGRICULTURAL ECONOMICS

CODE	COURSE TITLE	CREDITS
AG ECON 501	MICRO ECONOMIC THEORY AND APPLICATIONS	2+0
AG ECON 502	MACRO ECONOMICS AND POLICY	2+0
AG ECON 503	EVOLUTION OF ECONOMIC THOUGHT	1+0
AG ECON 504	AGRICULTURAL PRODUCTION ECONOMICS	2+1
AG ECON 505	AGRICULTURAL MARKETING & PRICE ANALYSIS	2+1
AG ECON 506	RESEARCH METHODOLOGY FOR SOCIAL SCIENCES	1+1
AG ECON 507	ECONOMETRICS	2+1
AG ECON 508	LINEAR PROGRAMMING	1+1
AG ECON 509	AGRICULTURAL FINANCE AND PROJECT MANAGEMENT	2+1
AG ECON 510	INTERNATIONAL ECONOMICS	1+1
AG ECON 511	AGRICULTURAL DEVELOPMENT POLICY ANALYSIS	2+0
AG ECON 512	INSTITUTIONAL ECONOMICS	1+0
AG ECON 513	NATURAL RESOURCE AND ENVIRONMENTAL ECONOMICS	1+1
AG ECON 514	INTELLECTUAL PROPERTY MANAGEMENT	1+0
AG ECON 515	RURAL MARKETING	2+0
AG ECON 591	MASTER'S SEMINAR	1+0
AG ECON 599	MASTER'S RESEARCH	20
AG ECON 601	ADVANCED MICRO-ECONOMIC ANALYSIS	2+1
AG ECON 602	ADVANCED MACRO-ECONOMIC ANALYSIS	2+0
AG ECON 603	ADVANCED ECONOMETRICS	2+1
AG ECON 604	ADVANCED PRODUCTION ECONOMICS	2+1
AG ECON 605	QUANTITATIVE DEVELOPMENT POLICY ANALYSIS	1+1
AG ECON 606	ADVANCED AGRICULTURAL MARKETING AND PRICE ANALYSIS	2+1
AG ECON 607	COMMODITY FUTURES TRADING	2+0
AG ECON 608	NATURAL RESOURCE MANAGEMENT	2+1
AG ECON 609	ENVIRONMENTAL ECONOMICS	2+1
AG ECON 691	DOCTORAL SEMINAR I	1+0
AG ECON 692	DOCTORAL SEMINAR II	1+0
AG ECON 699	DOCTORAL RESEARCH	45

AGRICULTURAL EXTENSION

CODE	COURSE TITLE	CREDITS
AG.EXTN 501	DEVELOPMENT PERSPECTIVES OF EXTENSION EDUCATION	1+1
AG.EXTN 502	DEVELOPMENT COMMUNICATION AND INFORMATION MANAGEMENT	2+1
AG.EXTN 503	DIFFUSION AND ADOPTION OF INNOVATIONS	2+1
AG.EXTN 504	RESEARCH METHODS IN BEHAVIORAL SCIENCES	2+1

AG.EXTN 505	E-EXTENSION	2+1
AG.EXTN 506	ENTREPRENEURSHIP DEVELOPMENT AND MANAGEMENT IN EXTENSION	2+1
AG.EXTN 507	HUMAN RESOURCE DEVELOPMENT	2+1
AG.EXTN 508	VISUAL COMMUNICATION	2+1
AG.EXTN 509	PARTICIPATORY METHODS FOR TECHNOLOGY DEVELOPMENT AND TRANSFER	1+1
AG.EXTN 510	GENDER SENSITIZATION FOR DEVELOPMENT	2+1
AG.EXTN 511	PERSPECTIVES OF DISTANCE EDUCATION	2+0
AG.EXTN 512	MARKET-LED EXTENSION	2+0
AG.EXTN 591	MASTER'S SEMINAR	1+0
AG.EXTN 599	MASTER'S RESEARCH	20
AG.EXTN 601	ADVANCES IN AGRICULTURAL EXTENSION	2+1
AG.EXTN 602	ADVANCED DESIGN AND TECHNIQUES IN SOCIAL SCIENCE RESEARCH	2+1
AG.EXTN 603	ADVANCES IN TRAINING TECHNOLOGY	2+1
AG.EXTN 604	ORGANIZATIONAL DEVELOPMENT	2+1
AG.EXTN 605	ADVANCED INSTRUCTIONAL TECHNOLOGY	2+1
AG.EXTN 606	THEORY CONSTRUCTION IN SOCIAL SCIENCES	2+0
AG.EXTN 607	ADVANCED MANAGEMENT TECHNIQUES	2+1
AG.EXTN 608	MEDIA MANAGEMENT	2+1
AG.EXTN 609	TRANSFER OF TECHNOLOGY IN AGRICULTURE	2+1
AG.EXTN 691	DOCTORAL SEMINAR I	1+0
AG.EXTN 692	DOCTORAL SEMINAR II	1+0
AG.EXTN 699	DOCTORAL RESEARCH	45

AGRICULTURAL STATISTICS/STATISTICS

CODE	COURSE TITLE	CREDITS
1. Service Courses (For M. Sc. and Ph.D. programs of other disciplines)		
AG. STAT. 501	MATHEMATICAL METHODS FOR APPLIED SCIENCES	3+0
AG. STAT. 511	STATISTICAL METHODS FOR APPLIED SCIENCES	2+0
AG. STAT. 512	EXPERIMENTAL DESIGNS	2+0
AG. STAT. 521	APPLIED REGRESSION ANALYSIS	2+1
AG. STAT. 531	DATA ANALYSIS USING STATISTICAL PACKAGES	2+1
AG. STAT. 533	STATISTICAL METHODS FOR CROP PROTECTION - I	2+1
AG. STAT. 534	STATISTICAL METHODS FOR CROP PROTECTION - II	2+1
AG. STAT. 535	STATISTICAL METHODS FOR CROP PRODUCTION - I	2+1
AG. STAT. 536	STATISTICAL METHODS FOR CROP PRODUCTION - II	2+1
AG. STAT. 537	STATISTICAL METHODS FOR SOCIAL SCIENCES - I	2+1
AG. STAT. 538	STATISTICAL METHODS FOR SOCIAL SCIENCES - II	2+1
AG. STAT. 539	STATISTICAL METHODS FOR CROP IMPROVEMENT	2+1
AG. STAT. 540	STATISTICAL GENETICS - II	2+1
AG. STAT. 541	STATISTICAL METHODS FOR ANIMAL SCIENCES	2+1
AG. STAT. 542	AGRICULTURAL STATISTICS	2+1
2. Major / Core Courses for M. Sc. (Statistics / Agricultural Statistics)		
AG. STAT. 551	MATHEMATICAL METHODS – I	3+0

AG. STAT. 552	MATHEMATICAL METHODS – II	2+0
AG. STAT. 560	PROBABILITY THEORY	2+0
AG. STAT. 561	STATISTICAL METHODS	2+0
AG. STAT. 562	STATISTICAL INFERENCE	2+1
AG. STAT. 563	MULTIVARIATE ANALYSIS	2+1
AG. STAT. 564	DESIGN OF EXPERIMENTS	2+1
AG. STAT. 565	SAMPLING TECHNIQUES	2+1
AG. STAT. 566	STATISTICAL GENETICS – I	2+1
AG. STAT. 567	REGRESSION ANALYSIS	1+1
AG. STAT. 568	STATISTICAL COMPUTING	1+1
AG. STAT. 569	TIME SERIES ANALYSIS	1+1
AG. STAT. 570	ACTUARIAL STATISTICS	2+0
AG. STAT. 571	BIOINFORMATICS	2+0
AG. STAT. 572	ECONOMETRICS	2+1
AG. STAT. 573	STATISTICAL QUALITY CONTROL	2+0
AG. STAT. 574	OPTIMIZATION TECHNIQUES	1+1
AG. STAT. 575	DEMOGRAPHY	2+0
AG. STAT. 576	STATISTICAL METHODS FOR LIFE SCIENCES	2+0
AG. STAT. 577	STATISTICAL ECOLOGY	2+0
AG. STAT. 578	COMPUTER FUNDAMENTALS AND PROGRAMMING	2+1
AG. STAT. 579	INTRODUCTION TO NETWORKING AND INTERNET APPLICATIONS	2+1
AG. STAT. 591	MASTER'S SEMINAR	1+0
AG. STAT. 599	MASTER'S RESEARCH	10+0
3. Ph. D. (Statistics / Agricultural Statistics)		
AG. STAT. 601	ADVANCED STATISTICAL COMPUTING	2+1
AG. STAT. 602	SIMULATION TECHNIQUES	1+1
AG. STAT. 611	ADVANCED STATISTICAL METHODS	2+0
AG. STAT. 612	ADVANCED STATISTICAL INFERENCE	3+0
AG. STAT. 613	ADVANCED DESIGN OF EXPERIMENTS	2+0
AG. STAT. 614	ADVANCED SAMPLING TECHNIQUES	2+0
AG. STAT. 615	ADVANCED STATISTICAL GENETICS	2+0
AG. STAT. 616	STATISTICAL MODELING	1+1
AG. STAT. 617	ADVANCED TIME SERIES ANALYSIS	2+0
AG. STAT. 618	STOCHASTIC PROCESSES	2+0
AG. STAT. 619	SURVIVAL ANALYSIS	2+0
AG. STAT. 620	ADVANCED BIOINFORMATICS	2+0
AG. STAT. 621	ADVANCED ECONOMETRICS	2+0
AG. STAT. 651	RECENT ADVANCES IN THE FIELD OF SPECIALIZATION	1+0
AG. STAT. 691	DOCTORAL SEMINAR I	1+0
AG. STAT. 692	DOCTORAL SEMINAR II	1+0
AG. STAT. 699	DOCTORAL RESEARCH	45+0

FRUIT SCIENCE

CODE	COURSE TITLE	CREDITS
FSC 501	TROPICAL AND DRY LAND FRUIT PRODUCTION	2+1
FSC 502	SUBTROPICAL AND TEMPERATE FRUIT PRODUCTION	2+1
FSC 503	BIODIVERSITY AND CONSERVATION OF FRUIT CROPS	2+1
FSC 504	CANOPY MANAGEMENT IN FRUIT CROPS	1+1
FSC 505	PROPAGATION AND NURSERY MANAGEMENT FOR FRUIT CROPS	2+1
FSC 506	BREEDING OF FRUIT CROPS	2+1
FSC 507	POST HARVEST TECHNOLOGY FOR FRUIT CROPS	2+1
FSC 508	GROWTH AND DEVELOPMENT OF HORTICULTURAL CROPS	2+1
FSC 509	BIOTECHNOLOGY OF HORTICULTURAL CROPS	2+1
FSC 510	ORGANIC HORTICULTURE	1+1
FSC 511	PROTECTED FRUIT CULTURE	2+1
FSC 512	GAP FOR HORTICULTURAL CROPS	1+0
FSC 513	CLIMATE MANAGEMENT IN HORTICULTURAL PRODUCTION	1+0
FSC 591	MASTER'S SEMINAR	1+0
FSC 599	MASTER'S RESEARCH	20
FSC 601	ADVANCES IN BREEDING OF FRUIT CROPS	2+1
FSC 602	ADVANCES IN PRODUCTION OF FRUIT CROPS	2+1
FSC 603	ADVANCES IN GROWTH REGULATION OF FRUIT CROPS	2+1
FSC 604	GENOMICS AND BIOINFORMATICS IN HORTICULTURE	2+1
FSC 605	BIOTIC AND ABIOTIC STRESS MANAGEMENT IN HORTICULTURAL CROPS	2+1
FSC 606	SYSTEMATICS OF FRUIT CROPS	2+1
FSC 691	DOCTORAL SEMINAR I	1+0
FSC 692	DOCTORAL SEMINAR II	1+0
FSC 699	DOCTORAL RESEARCH	45

VEGETABLE SCIENCE

CODE	COURSE TITLE	CREDITS
VSC 501	PRODUCTION TECHNOLOGY OF COOL SEASON VEGETABLE CROPS	2+1
VSC 502	PRODUCTION TECHNOLOGY OF WARM SEASON VEGETABLE CROPS	2+1
VSC 503	BREEDING OF VEGETABLE CROPS	2+1
VSC 504	GROWTH AND DEVELOPMENT OF VEGETABLE CROPS	2+1
VSC 505	SEED PRODUCTION TECHNOLOGY OF VEGETABLE CROPS	2+1
VSC 506	SYSTEMATICS OF VEGETABLE CROPS	1+1
VSC 507	PRODUCTION TECHNOLOGY OF UNDEREXPLOITED VEGETABLE CROPS	1+1
VSC 508	ORGANIC VEGETABLE PRODUCTION TECHNOLOGY	1+1
VSC 509	FUNDAMENTALS OF PROCESSING OF VEGETABLES	2+1

VSC 591	MASTER'S SEMINAR	1+0
VSC 599	MASTER'S RESEARCH	20
VSC 601	ADVANCES IN VEGETABLE PRODUCTION	2+1
VSC 602	ADVANCES IN BREEDING OF VEGETABLE CROPS	2+1
VSC 603	PROTECTED CULTIVATION OF VEGETABLE CROPS	1+1
VSC 604	BIOTECHNOLOGY IN VEGETABLE CROPS	2+1
VSC 605	SEED CERTIFICATION, PROCESSING AND STORAGE OF VEGETABLE CROPS	2+1
VSC 606	ABIOTIC STRESS MANAGEMENT IN VEGETABLE CROPS	2+1
VSC 691	DOCTORAL SEMINAR I	1+0
VSC 692	DOCTORAL SEMINAR II	1+0
VSC 699	DOCTORAL RESEARCH	45

FLORICULTURE AND LANDSCAPE ARCHITECTURE

CODE	COURSE TITLE	CREDITS
FLA.501	BREEDING OF FLOWER CROPS AND ORNAMENTAL PLANTS	2+1
FLA.502	PRODUCTION TECHNOLOGY OF CUT FLOWERS	2+1
FLA.503	PRODUCTION TECHNOLOGY OF LOOSE FLOWERS	2+1
FLA.504	LANDSCAPING AND ORNAMENTAL GARDENING	2+1
FLA.505	PROTECTED FLORICULTURE	2+1
FLA.506	VALUE ADDITION IN FLOWERS	2+1
FLA.507	TURFING AND TURF MANAGEMENT	2+1
FLA.508	CAD FOR OUTDOOR AND INDOORSCAPING	2+1
FLA 591	MASTER'S SEMINAR	1+0
FLA 599	MASTER'S RESEARCH	20
FLA 601	ADVANCES IN BREEDING OF FLOWER CROPS	2+1
FLA 602	ADVANCES IN FLOWER PRODUCTION TECHNOLOGY	2+1
FLA 603	ADVANCES IN PROTECTED AND PRECISION FLORICULTURE	1+1
FLA 604	ADVANCES IN LANDSCAPE ARCHITECTURE	1+2
FLA 605	ADVANCES IN BIOCHEMISTRY AND BIOTECHNOLOGY OF FLOWERS	2+1
FLA 691	DOCTORAL SEMINAR I	1+0
FLA 692	DOCTORAL SEMINAR II	1+0
FLA 699	DOCTORAL RESEARCH	45

PLANTATION, SPICES, MEDICINAL & AROMATIC CROPS

CODE	COURSE TITLE	CREDITS
PSMA 501	PRODUCTION OF PLANTATION CROPS	2+1
PSMA 502	PRODUCTION TECHNOLOGY OF SPICE CROPS	2+1
PSMA 503	PRODUCTION TECHNOLOGY OF MEDICINAL AND AROMATIC CROPS	2+1
PSMA 504	BREEDING OF PLANTATION CROPS AND SPICES	2+1
PSMA 505	BREEDING OF MEDICINAL AND AROMATIC CROPS	2+1

PSMA 506	PROCESSING OF PLANTATION CROPS, SPICES, MEDICINAL AND AROMATIC PLANTS	2+1
PSMA 507	ORGANIC SPICE AND PLANTATION CROP PRODUCTION TECHNOLOGY	2+1
PSMA 508	UNDEREXPLOITED MEDICINAL AND AROMATIC PLANTS	1+1
PSMA 591	MASTER'S SEMINAR	1+0
PSMA 599	MASTER'S RESEARCH	20
PSMA 601	ADVANCES IN PRODUCTION OF PLANTATIONCROPS	2+1
PSMA 602	ADVANCES IN SPICE PRODUCTION	2+1
PSMA 603	ADVANCES IN MEDICINAL AND AROMATIC CROP PRODUCTION TECHNOLOGY	2+1
PSMA 604	ADVANCES IN BREEDING OF PLANTATION CROPS AND SPICES	2+1
PSMA 605	ADVANCES IN BREEDING OF MEDICINAL AND AROMATIC CROPS	2+1
PSMA 606	BIOTECHNOLOGY IN PLANATION CROPS AND SPICES	1+1
PSMA 607	POST HARVEST PROCESSING AND EXTRACTION IN MEDICINAL AND AROMATIC PLANTS	2+1
PSMA 608	ENVIRONMENTAL HORTICULTURE	2+1
PSMA 691	DOCTORAL SEMINAR I	1+0
PSMA 692	DOCTORAL SEMIANR II	1+0
PSMA 699	DOCTORAL RESEARCH	45

POST HARVEST TECHNOLOGY

CODE	COURSE TITLE	CREDITS
PHT:501	PRINCIPLES OF POST HARVEST MANAGEMENT FOR PERISHABLE HORTICULTURAL PRODUCE	1+1
PHT:502	FUNDAMENTALS OF PROCESSING OF FRUITS AND VEGETABLES.	1+1
PHT:503	LABORATORY ANALYSIS AND QUALITY ASSURANCE TECHNIQUES OF FRESH AND PROCESSED HORTICULTURAL PRODUCE	1+1
PHT:504	TECHNIQUES FOR SENSORY ANALYSIS FOR PROCESSED PRODUCE	1+1
PHT:505	PRE-HARVEST PRACTICES AFFECTING POST HARVEST LIFE OF PERISHABLE HORTICULTURAL PRODUCE	2+0
PHT:506	PRINCIPLES OF POST HARVEST MANAGEMENT OF SPICES AND PLANTATION CROPS.	1+1
PHT:507	PRINCIPLES OF POST HARVEST MANAGEMENT OF ORNAMENTAL, MEDICINAL AND AROMATIC PLANTS	1+1
PHT:508	PROCESSING OF PLANTATION CROPS, SPICES, MEDICINAL AND AROMATIC PLANTS	1+1
PHT:509	PACKAGING OF PERISHABLE HORTICULTURAL PRODUCE	1+1
PHT:510	PACKAGING TECHNOLOGY OF PROCESSED HORTICULTURAL PRODUCE	2+1
PHT:511	PROCESS ENGINEERING OF HORTICULTURAL CROPS	2+1

PHT:512	IN-PLANT TRAINING	-
PHT:591	MASTER'S SEMINAR	1+0
PHT-599	MASTER'S RESEARCH	20
PHT:601	ADVANCES IN POST HARVEST MANAGEMENT OF FRESH HORTICULTURAL PRODUCE	2+0
PHT:602	ADVANCES IN LABORATORY TECHNIQUES AND RESEARCH METHODOLOGY IN POST HARVEST TECHNOLOGY	1+2
PHT:603	ADVANCES IN PROCESSING TECHNOLOGY OF HORTICULTURAL CROPS	3+0
PHT:604	PACKAGING HOUSE OPERATIONS AND TRANSPORTATION OF FRESH HORTICULTURAL PRODUCE	2+0
PHT:605	COMMERCIAL ASPECTS OF POST HARVEST TECHNOLOGY OF HORTICULTURAL PRODUCE	2+0
PHT:606	DEHYDRATION TECHNOLOGY OF HORTICULTURAL PRODUCE	2+1
PHT:607	FREEZING TECHNOLOGY OF HORTICULTURAL PRODUCE	2+1
PHT:608	FRUIT AND VEGETABLE FERMENTATION TECHNOLOGY	2+1
PHT:609	WASTE MANAGEMENT FROM HORTICULTURE PROCESSING INDUSTRIES	2+1
PHT-691	DOCTORAL SEMINAR I	1+0
PHT-692	DOCTORAL SEMINAR II	1+0
PHT-699	DOCTORAL RESEARCH	45