

## **BSc (Hons) Agriscience and Technology (Minor: Agribusiness Management) (Full-Time) – A329/13**

### **1. Objectives**

The changing socio-economic pattern of Mauritius has led to an increasing demand for agricultural produce of good quality. Agricultural production is now increasingly being characterised by the use of modern technology. It is the Government policy and vision for the future to adopt a technology-based approach to render the local agricultural sector more productive, service-oriented, sustainable and competitive whilst responding to the environmental and ethical standards demanded by society. This has led to the need for well-trained agricultural scientists who have the technical and practical skills in addition to in-depth knowledge of the science, as well as business management skills to meet these new challenges facing the Mauritian agriculture and to those interested in embarking on postgraduate studies.

This programme aims at (1) developing technical and practical skills of students in the area of agricultural and food production; and (2) familiarising students with business management and entrepreneurial skills that will enable them to contribute to the professionalization of the agri-food value chains in Mauritius. The programme is structured towards the acquisition of scientific and technical knowledge and knowhow in agricultural science and production. In addition, students are exposed with the knowledge and application of concepts, tools and techniques in the management of small and medium agribusinesses. The students are given the opportunity to familiarize themselves with the characteristics of different types of business organizations, the support environment in which agribusinesses evolve as well as their marketing strategies. They also gain exposure to critical entrepreneurial principles through theory development, application and skill development; and they are made aware of the importance of creativity and innovation in the setting up of agribusinesses.

#### **On completion of this programme, learners will be able to:**

- Explain the scientific, economic and business principles underpinning crop and animal production methods in various types of production systems;
- Identify technological problems encountered in current crop and livestock production systems;
- Embark on training programmes at postgraduate level;
- Acquire relevant knowledge, skills and technology concepts to transfer to the producers and support innovation;
- Apply the functions of management and explain the importance of these functions in managing enterprises;
- Explain the importance of systems thinking in agricultural management and research;
- Analyse farm and agricultural projects in investment;
- Explain the concepts of entrepreneurs, intrapreneurs and entrepreneurship;
- Set and achieve personal goals for their development as a leader and entrepreneur;
- Apply creativity techniques in agribusinesses taking into consideration the link between creativity and innovation;
- Identify the key aspects of environmental factors having an impact on the performance of the overall industry and the agribusiness being analyzed;
- Describe the important role of Value Chain Approach to economic development;
- Analyze value chains in the agricultural sector with special emphasis on best practices in Mauritius;
- Identify regional and global agricultural policy and strategy and its implications;
- Apply their skills in setting up and operating their own agricultural enterprise;
- Promote their ability to assist producer groups in managing agricultural enterprises;
- Demonstrate transferable skills namely written and oral communication, team working, problem solving and IT skills.

### **2. General Entry Requirements**

In accordance with General Entry Requirements for Admission to the University for Undergraduate Degrees.

### 3. Programme Requirements

SC: Credit in Mathematics and Chemistry.

2 GCE 'A' Level passes in related approved Science subjects (Mathematics, Physics, Chemistry, Biology, Food Studies, Botany, Zoology, Marine Science, Environmental Studies, Computer Science or Computing).

### 4. Programme Duration

	Normal (Years)	Maximum (Years)
Degree:	3	5

5. **Credits per Year:** Minimum 18 credits, Maximum 48 credits subject to Regulation 4.

6. **Minimum Credits Required for Award of Undergraduate Degree: 103**

Breakdown as follows:

	Credits from	
	Core Taught Modules	Project
Degree	94	9

The module Practical Training – AGRI 2000 and the module Scientific Communication Skills and Methods – AGRI 2130 must be completed satisfactorily for the award of the degree.

Students may exit with a:

- Certificate after having earned 30 credits in core modules.
- Diploma after having earned 60 credits in core modules.

### 7. Assessment

Each module will be assessed over 100 marks (i.e. expressed as %) with details as follows (unless otherwise specified).

Assessment will be based on a Written Examination of 2-3 hour duration, carrying a weighting of 70%, and Continuous Assessment carrying 30% of total marks for AGRI modules. Continuous Assessment will be based on laboratory/field works, and/or assignments, and should include at least 1 class test. Written examinations for all AGRI modules will normally be carried out at the end of the academic year.

An overall total of 40% for combined Continuous Assessment and Written Examination would be required to pass a module, without minimum thresholds within the individual Continuous Assessment and Written Examination.

Modules will carry the weightings of 1, 3 or 5 depending on their status (Introductory, Intermediate or Advanced). Weighting for a particular module is indicated within parentheses in the module code. Each module will carry credits in the range of 3 to 6. Project – AGRI 3000Y(5) will carry 9 credits. Assessment of the module AGRI 2000 - Practical Training will be based on the On-site Supervisor's Evaluation and the Student's Portfolio. For satisfactory completion of the Practical Training, a minimum of 40% should be attained.

Assessment of the module Scientific Communication Skills and Methods – AGRI 2130 will be based on continuous assessment of students throughout the module and/or submission of a portfolio. The module carries no credits. For satisfactory completion of the module, a minimum of 40% should be attained.

**Submission Deadlines for Dissertation:**

- First Draft: by last week day of February of the Academic Year.
- Final Copy: three copies of the dissertation (2 spiral-bound copies and 1 copy on electronic storage media) by last week day of March of the Academic Year by 4.00 p.m at latest.

**8. Academic Teaching in Case of an Emergency**

To ensure minimal disruption of normal academic teaching in case of an emergency (eg closure of the University for more than 2 weeks), the Moodle e-Learning Platform of VCILT will be used to deliver Teaching and Learning content. Relevant learning resources will be posted on the Platform. Assignments (if any) will be submitted using the online submission box. Arrangements will be made to register students on the Moodle platform at the beginning of the academic year.

**9. List of Modules**

**CORE MODULES**

<u>Code</u>	<u>Module Name</u>	<u>Hr / Yr</u>	<u>Credits</u>
		<u>L+P</u>	
AGRI 1018Y(1)	Agricultural Chemistry and Soil Science	45+60	5
AGRI 1034Y(1)	Animal Production: Principles and Techniques	30+30	3
AGRI 1035Y(1)	Agronomy and Horticultural Crop Production I	45+60	5
AGRI 1047Y(1)	Microbiology and Genetics	60+60	6
AGRI 1064Y(1)	Agrometeorology and Climate Change	45+0	3
AGRI 1071Y(1)	Data Handling and Research Methodology	30+30	3
AGRI 1073Y(1)	Botany and Plant Physiology	60+45	5
AGRI 1085Y(1)	Introduction to Agricultural Marketing and Extension	45+0	3
AGRI 1086Y(1)	Introduction to Agricultural Economics, Management and Systems	45+0	3
AGRI 2000	Practical Training	-	-
AGRI 2026Y(3)	Biotechnology	60+60	6
AGRI 2089Y(3)	Pests, Diseases and Weeds Control	45+60	5
AGRI 2092Y(3)	Animal Production and Science I	60+60	6
AGRI 2112Y(3)	Experimental Designs and Sampling Techniques	30+30	3
AGRI 2115Y(3)	Irrigation and Farm Mechanization	45+45	4
AGRI 2118Y(3)	Science and Technology of Foods	45+30	4
AGRI 2130	Scientific Communication Skills and Methods	35+0	-
AGRI 2131Y(3)	Management Tools and Techniques for small and medium agribusiness	30+30	3
AGRI 2132Y(3)	Financial Management for agribusiness	30+30	3
AGRI 3000Y(5)	Project	-	9
AGRI 3027Y(5)	Animal Production and Health	60+45	5
AGRI 3026Y(5)	Crop Production Technologies	60+45	5
AGRI 3094Y(5)	Entrepreneurship and Innovations for agribusiness	60+30	5
AGRI 3095Y(5)	Strategic Management for agribusiness	60+30	5
AGRI 3096Y(5)	Agro-value chain analysis for agribusiness	60+0	4
<b>Total Number of Credits = 103</b>			

AGRI 2000 - Practical Training can be done in either Year 1 or Year 2.

AGRI 2130 - Scientific Communication Skills and Methods will be done in Semester 2 in Year 2.

## 10. Programme Plan- BSc (Hons) Agriscience and Technology (Minor: Agribusiness Management)

### YEAR 1

#### CORE MODULES

<u>Code</u>	<u>Module Name</u>	<u>Hr / Yr</u>	<u>Credits</u>
		<u>L+P</u>	
AGRI 1018Y(1)	Agricultural Chemistry and Soil Science	45+60	5
AGRI 1034Y(1)	Animal Production: Principles and Techniques	30+30	3
AGRI 1035Y(1)	Agronomy and Horticultural Crop Production I	45+60	5
AGRI 1047Y(1)	Microbiology and Genetics	60+60	6
AGRI 1064Y(1)	Agrometeorology and Climate Change	45+0	3
AGRI 1071Y(1)	Data Handling and Research Methodology	30+30	3
AGRI 1073Y(1)	Botany and Plant Physiology	60+45	5
AGRI 1085Y(1)	Introduction to Agricultural Marketing and Extension	45+0	3
AGRI 1086Y(1)	Introduction to Agricultural Economics, Management and Systems	45+0	3

### YEAR 2

#### CORE MODULES

<u>Code</u>	<u>Module Name</u>	<u>Hr / Yr</u>	<u>Credits</u>
		<u>L+P</u>	
AGRI 2000	Practical Training	-	-
AGRI 2026Y(3)	Biotechnology	60+60	6
AGRI 2112Y(3)	Experimental Designs and Sampling Techniques	30+30	3
AGRI 2115Y(3)	Irrigation and Farm Mechanization	45+45	4
AGRI 2118Y(3)	Science and Technology of Foods	45+30	4
AGRI 2130	Scientific Communication Skills and Methods	35+0	-
AGRI 2131Y(3)	Management Tools and Techniques for small and medium agribusiness	30+30	3
AGRI 2132Y(3)	Financial Management for agribusiness	30+30	3
AGRI 2089Y(3)	Pests, Diseases and Weeds Control	45+60	5
AGRI 2092Y(3)	Animal Production and Science I	60+60	6

AGRI 2000 - Practical Training can be done in either Year 1 or Year 2.

AGRI 2130 - Scientific Communication Skills and Methods will be done in Semester 2 in Year 2.

### YEAR 3

#### CORE MODULES

<u>Code</u>	<u>Module Name</u>	<u>Hr / Yr</u>	<u>Credits</u>
		<u>L+P</u>	
AGRI 3000Y(5)	Project	-	9
AGRI 3026Y(5)	Crop Production Technologies	60+45	5
AGRI 3027Y(5)	Animal Production and Health	60+45	5
AGRI 3094Y(5)	Entrepreneurship and Innovations for agribusiness	60+30	5
AGRI 3095Y(5)	Strategic Management for agribusiness	60+30	5
AGRI 3096Y(5)	Agro-value chain analysis for agribusiness	60+0	4

**Total Number of Credits = 103**

## **11. Outline Syllabus**

### **AGRI 1018Y(1) - AGRICULTURAL CHEMISTRY AND SOIL SCIENCE**

Agrochemicals, their properties, metabolism, and mode of action. Chemistry of fertilisers: straight, complex, compound mixed, blended fertilisers. Fertiliser solutions. Foliar fertilisers. Manures, municipal sewage, compost.

Chemistry of agrochemicals: organochlorines, organophosphates, carbamates, pyrethroids, dinitrophenols, phthalimides, substituted ureas, triazines, inorganics, botanical pesticides, bio-pesticides. Analysis of pesticides and fertilisers.

Soil as a natural body. Weathering. Factors and processes in soil formation. Physical, physio-chemical, biological and mineralogical properties of soil. Soil profile. Soil air. Water, temperature, soil organic matter and soil organisms. Concepts of soil fertility and land suitability. Soil taxonomy. Soil biology. Soil amendments. Soil pollution. Heavy metals. Polyaromatic hydrocarbons (PAH), persistent organic pollutants (POP) in soils. Soil bioremediation.

### **AGRI 1034Y(1) - ANIMAL PRODUCTION: PRINCIPLES AND TECHNIQUES**

Fundamentals of animal management and production: nutrition; feeds and feeding; reproduction and breeding; animal welfare and health; housing and equipment; animal-environment interactions. Introduction to farm animal industries, breeds of animal, their products and by-products: matching production of quality and safe food with protection and care of the environment.

Fundamental skills of animal husbandry: rationing; weighing and tagging; usage of preventive and diagnostic equipment; evaluation of body condition score; use and development of performance records. Evaluation of Animal behaviour. Animal housing evaluation.

### **AGRI 1035Y(1) - AGRONOMY AND HORTICULTURAL CROP PRODUCTION I**

Principles of field crop agronomy. Crop-environment interactions. Cropping systems. Crop propagation. Plant Nutrition. Nutrient deficiency symptoms and their corrections. Nutrient requirements and fertiliser recommendations for specific crops / cropping systems.

Applied crop physiology. Husbandry and production of economically important horticultural crops. Field operations and techniques in crop production. Organic production systems.

### **AGRI 1047Y(1) – MICROBIOLOGY AND GENETICS**

Microbiology diversity, structure, functions and economic significance. Microbial physiology. Growth and Survival. Control of microorganisms. Basic procedures and techniques in microbiological analysis.

Mendelian Inheritance. Linkage and chromosome mapping. Sex linked and extra-nuclear inheritance. Quantitative and population genetics. Objectives of plant breeding. Selection techniques. Breeding of selected crops. Legislative framework. Methods of crop improvement. Genetic variation and manipulation of variability.

### **AGRI 1064Y(1) – AGROMETEOROLOGY AND CLIMATE CHANGE**

Economic significance and importance of weather. Radiation and surface energy balance: earth's atmosphere; atmospheric energy; atmospheric moisture and precipitation; atmospheric motion. Soil and its heat balance. Topoclimate and mesoclimate, representative observation, and their dependence on topography. Agrometeorology management at microscale and topoccale.

Global climatic change and variability and its effect on agriculture: weather hazards affecting agricultural output. Weather patterns over Mauritius. Use of weather data in agriculture. Basic instrumentation in agro-meteorology. Seminar-based learning. Problem-solving and case studies on climate change mitigation and adaptation

### **AGRI 1071Y(1) -DATA HANDLING AND RESEARCH METHODOLOGY**

Introducing statistics. Levels of measurements. Collection, organisation and presentation of numerical data. Averages and measures of variation and skewness. Probability distributions. Point and interval estimation. Hypothesis testing. Analysis of categorical data. Correlation and Regression Analysis. Introduction to research methodology. Elements of scientific and technical writing. Data entry and analysis using EXCEL and MINITAB.

### **AGRI 1073Y(1) - BOTANY AND PLANT PHYSIOLOGY**

Classification, identification, morphology, ecology and uses of economically important crops. Plant Biodiversity. Environmental influences on crop growth and development. Vegetative and reproductive growth. Plant water relationships. Plant growth substances. Growth kinetics. Plant growth analysis. Yield determination and crop productivity. Seed physiology. Light and plant development: photomorphogenesis and photoperiodism. Source-sink relationship. Photosynthate partitioning in relation to yield. Senescence. Water and plant mineral uptake. Problem-solving and case-studies. Stress physiology.

### **AGRI 1085Y(1) - INTRODUCTION TO AGRICULTURAL MARKETING AND EXTENSION**

Introduction to Agricultural Marketing; Approaches to studying food and agricultural marketing; the marketing functions; the Marketing environment of agribusinesses; Analyzing food markets; the marketing mix; Understanding the customer demand; Developing marketing mix for agribusiness. Introduction to Agricultural Extension; Introductory concepts and principles. Research and Extension linkages. Participatory approach in agricultural research, production & extension.

### **AGRI 1086Y(1) –INTRODUCTION TO AGRICULTURAL ECONOMICS, MANAGEMENT AND SYSTEMS**

Introduction to Agricultural Economics; The application of the principles of economics to agriculture in Mauritius, in the region and in the World. Production Economics; National, regional and global food situation; trade in agricultural products; Introduction to Agricultural and Food policies; A review of existing food and agricultural policies in Mauritius; Introduction to Agricultural Management; Role of managers in Agribusiness; Management of resources & equipment; Financial management and investment appraisal; Budgeting.

Introduction to Agricultural Systems; Systems thinking in management and problem solving; systems approach and sustainable agriculture; systems approach in agricultural management and research; Concept mapping.

### **AGRI 2000 - PRACTICAL TRAINING**

Students are required to undergo a full-time practical training of 6-8 week duration during the winter vacation, either in year 1 or in year 2. The practical training placement may take place in the various agricultural institutions and industries in the private or public sector. The aim is to contextualise learning within real-life work environments related to your course. Students are required to submit a training placement portfolio. This module does not carry any credit, but training must be completed satisfactorily for the award of the degree.

### **AGRI 2026Y (3) - BIOTECHNOLOGY**

Structure and functions of cells and organelles; Biomolecules: Polysaccharides, sugars; storage polysaccharides; Lipids, classification and properties, biological membranes; Proteins, amino acids, covalent and three-D structure of proteins; Enzymes, properties and mechanism of actions, enzyme kinetics. Glycolysis.

Organisation of genetic material, gene structure, expression and transmission. Control of gene expression. Structure and properties of DNA. DNA replication. Protein synthesis. Principles of gene cloning. Recombinant DNA technology.

Concept and basis of biotechnology. Tissue culture techniques and applications. Application of biotechnology in agriculture and crop improvement.

### **AGRI 2089Y(3) - PESTS, DISEASES AND WEEDS CONTROL**

Taxonomy, systematic, biology, ecology and economic importance of pests, plant pathogens and weeds affecting crops. Control and management of pests, diseases and weeds of crop plants. Concept and principles of IPM. Biological, physical, chemical, cultural, biology-based, genetic, biotechnological and legal methods of pest control. Botanical pesticides and biopesticides. Pest-resistant transgenic crops (GMOs). Economics of crop protection.

Quarantine for plant health and biological control agents; pest-free areas; Sanitary & phytosanitary issues; the SPS Agreement of the WTO; Pest risk assessment, surveillance and mitigation; Phytosanitary inspection, quarantine treatments and disposal of plants/produce; Standards, certification and legislation. Climate change and crop protection. GIS and Remote Sensing for crop protection.

### **AGRI 2092Y(3)-ANIMAL PRODUCTION AND SCIENCE I**

Aspects of physiological processes in growth and development, digestion, reproduction, lactation, egg laying. Meat science: carcass composition and quality, pre and post mortem muscle metabolism. Key concepts in thermal balances in farm animals. Livestock and climate change: impacts on grasslands, biodiversity, health.

Digestive physiology and metabolism of end products of digestion. Factors regulating feed intake. Feed evaluation. Feeding standards and their applications. Feed formulation: manual and computerised procedures. Legislative framework for feed manufacture.

Basic principles of qualitative and quantitative genetics. Main selection methods and genetic responses. Concepts of correlated selection response, heterosis and crossbreeding system.

Natural and acquired immunity. Disease causing agents. Major pests and diseases of farm animals and their control. Veterinary Public health and food borne and zoonotic diseases. Disease surveillance and Animal health schemes.

### **AGRI 2112Y(3) - EXPERIMENTAL DESIGNS AND SAMPLING TECHNIQUES**

Design and analysis of experiments. Analysis of variance. Completely randomized design, Randomized block design, Latin square design. Factorial treatment structure. Non-parametric methods. Data entry, analysis and interpretation using EXCEL and MINITAB. Qualitative and quantitative research. Sampling methods. Questionnaire development, design and administration. Data coding and processing using SPSS.

### **AGRI 2115Y(3) - IRRIGATION AND FARM MECHANIZATION**

Basic engineering science relevant to agriculture, soil and water.

Soil-water-plant relationships. Soil water movement: Infiltration. Evapotranspiration. Crop water requirements and irrigation scheduling. Irrigation Methods: surface, overhead and subsurface Irrigation. Measurement of Irrigation Water. Water Conservation and Rainwater Harvesting.

Agricultural machinery: tractors, tillage implements, mechanical planters and harvesters, rotovators, pesticide sprayers, and fertilizer applicators. Tractor Technology. Farm structures and buildings. Farm roads.

Handling and disposal of Animal waste and crop residues. Application of farm waste in field as manure.

### **AGRI 2118Y(3) - SCIENCE AND TECHNOLOGY OF FOODS**

Classification, chemical structure and properties and nutritional value of food commodities. Primary sensory attributes of foods and perception of food quality. Methods for Proximate analysis of foods.

Microbial food spoilage. Useful micro-organisms. Incidence and causes of major food borne microbial diseases. Types of nutrients and their role in the human body. Healthy eating guidelines sustainable diet. Food safety concept from farm to table. Post-harvest losses; Postharvest loss reduction technologies. Processing of foods of plant and animal origin.

### **AGRI 2130 - SCIENTIFIC COMMUNICATION SKILLS AND METHODS**

Avenues of communication in science. Scientific and technical writing. Oral and poster presentations. Ethics of scientific publishing. The dissertation guidelines. Planning and managing the dissertation writing up process – effective literature search and review, introduction, methodology, results, discussion, conclusions, referencing rules and plagiarism.

Concepts of Web 2.0 tools. Uses of Web 2.0 tools: Targeted web searches; use of social media tools (e.g., blogs, wikis) for scientific communication; Sharing and collaborative tools (e.g., social bookmarking) in scientific publications.

### **AGRI 2131Y(3) - MANAGEMENT TOOLS AND TECHNIQUES FOR SMALL AND MEDIUM AGRIBUSINESS**

Management Process and Business functions. Business Management. Functions of Management. Organisational Management. Business Organisations. Managerial skills for agribusiness management. Business decision making. Farm Management. Farm Planning Techniques. Optimisation and Multiple Objectives Planning. Linear programming. Human Resource Management. Marketing analysis techniques; Risk and Uncertainty in agribusiness.

### **AGRI 2132Y(3) - FINANCIAL MANAGEMENT FOR AGRIBUSINESS**

Introduction to Financial Accounting. Financial Management Objectives. Financial Management Environment. Agribusiness Finance. Financial Information. Public and Private sector Investment. Sources of Finance. Business law. Statistics for Finance. Rural and Microfinance. Farm Resource Assessment. Farm Investment Analysis. Agricultural Project Analysis.

### **AGRI 3000Y(5)-PROJECT**

Every student will be allocated a research topic related to agribusiness management. The research work will be carried out under academic supervision. Students should demonstrate good practice in using skills and knowledge acquired during the programme and follow dissertation guidelines as laid down by the Faculty of Agriculture.

### **AGRI 3026Y(5) - CROP PRODUCTION TECHNOLOGIES**

Mechanised vegetable crop production. Plant characteristics for mechanised crop production. Soil conditioning for vegetable production. Seed priming and enhancement. Fluid drilling. Direct sowing for crop establishment. Plug production. Mechanical transplanting. Plastic mulching in horticulture. New trends in vegetable crop production. Good agricultural practices in crop production. Tissue Culture technologies for crop improvement.

Cropping and production of high value horticultural crops in plastic tunnels, shade houses and greenhouses. Types of structures for protected cultivation and their characteristics. Greenhouse design and site considerations. Greenhouses and their operation.

Plant culture in hydroponics. Plant nutrition in Soilless Culture. Hydroponics media. Hydroponics systems. Cropping and production of selected vegetables, fruits and ornamentals in soilless culture systems: water culture systems and substrate culture systems. Hydroponics waste management. Aeroponics.



### **AGRI 3027Y(5) - ANIMAL PRODUCTION AND HEALTH**

Principles of managing animals in typical production systems for biological and economic sustainability: poultry, pigs; rabbits; deer; goats and sheep; beef and dairy cows and novel species. Best management practices for their efficient and profitable production: nutrition, reproduction and fertility, housing and equipment, waste management technologies.

Food chain management from primary production to consumer use. Trends and current issues related to production and consumption of animal products: meeting the needs of a global market and public concerns.

Prevention and control of farm animal disease. Management of disease risks. Principles of vaccination. Classification and mode of action of the major classes of drugs. Use and control of drugs. Disease control using non chemical methods. Animal health management schemes for various farm animals.

Animal welfare concepts and definition (eg; the five freedom). Specific requirements for the welfare of named ruminants and non-ruminants. Methods for assessing animal welfare status.

### **AGRI 3094Y(5) –ENTREPRENEURSHIP & INNOVATIONS IN AGRIBUSINESS**

Introduction to Entrepreneurship. Concept of Entrepreneurship. The Entrepreneurial Process. The entrepreneurial attitude: Generation of business ideas and innovation. Entrepreneurship and SMEs: Opportunities for setting up an agribusiness. Development of a business plan. Challenges of Entrepreneurship. Sustainable Entrepreneurship. Leadership: Leading the Entrepreneurial team. Leadership and Innovation. Case studies of successful ventures and business failures. Clustering & Business Incubators.

Innovation and growth of agribusinesses. Importance of R&D in the innovation process. Intellectual Property protection for Innovators; IPR Legislations in Mauritius. Working session to propose innovation in agribusiness in Mauritius.

### **AGRI 3095Y(5) –STRATEGIC MANAGEMENT FOR AGRIBUSINESS**

Definition and process of strategic management, nature of strategic decisions; Strategy Formulation; Developing Mission and Objective; Strategy Formulation; Formulation of functional action plans; Analyzing organizing culture; Strategic Control: The strategic control process. A Case Analysis Framework for an agribusiness: Diagnosis and record of the current situation, Identification and record of the strategic issues and key problems.

### **AGRI 3096Y(5) –AGRO-VALUE CHAIN ANALYSIS FOR AGRIBUSINESS**

The Value Chain Approach: theoretical concepts. Value Chain Promotion as an Approach to Economic Development. Analysing Agro-value Chains- The UNIDO approach; Role of Public Sector in Promoting Value Chains in Agriculture Sector. Global agribusiness value chains: theoretical background and empirical application; Trade and Food Safety issues; Structured Learning Visits and case studies.