Curriculum for the Diploma in Agriculture					
Domain →		Agricultural Production \downarrow	Farm Business Management \downarrow	Resource Management \downarrow	Farm Engineering \downarrow
Exit level competence outcomes →→→→		 Plans selected production system/s Manages a production system in a sustainable manner to optimise economic return 	 Adds value and markets the farm business effectively Manages agribusiness finances as a means of planning and monitoring the management of the enterprise Manages human resources of the farm Manages the external farm environment Engages in personal risk taking to exploit opportunities in an informed manner 	 Makes informed decisions regarding sustainable land use 	 Manages the farm infrastructure and machinery
Generic→ Semester Theme↓		Generic competencies and exit level outcomes Engages in personal risk taking to exploit opportunities in an informed manner (Entrepreneurship) Identifies and addresses competency gaps between own and required performance (Self management) Expresses a message in such a way that a previously identified audience understands it coherently (Communication) Works as a member of a team in such a way that the individual efforts have an optimum contribution to the successful completion of the task (Team work) Demonstrates a morally acceptable standard of behaviour as defined by the profession (Ethics) Information retrieval and processing (including ICT)			
Year 1	SEMESTER 1 Identify resources and production systems	Introduction to Agriculture (24) Introduction to agriculture, Farming Systems, Animal Anatomy & physiology, Soils (SPAC), Animal behaviour & animal welfare, Plant Anatomy & physiology	Agri-socio Economics (8) Rural Sociology, Agricultural Organizations in SA, Land tenure, Economic Principles, Agricultural Calculations	Natural Resources (24) Water, Soils, Vegetation, Mapping / Topography, Climate	Farm Infrastructure (8) Introduction to: Homestead, Building materials, Foundations, floors & walls, Farm roads, Small farm dams, Conservation structures_Fencing Mechanical Engineering
	SEMESTER 2 Determine requirements for sustainable agriculture	Agricultural Production (24) BASIC: Genetics, Life Cycles, Record keeping, Soil fertility, Plant & Animal Reproduction, Digestion & basic nutrition, Animal Health, Plant Health	Agribusiness (16) Production Economics, Marketing, Farm Accounting	Environmental Impact (16) Resource Conservation, Veld Management, Alien Plant Control	Farm Construction (8) Plans & specifications, Water supply, Waste handling, Quantities & costs, Electricity, Alternative building methods Dam construction, Road construction, Contour bank construction
Year 2	SEMESTER 3 Plan and implement an enterprise	Animal Production I (16) BASIC: Breeding and selection, Nutrition, Fodder, Growth & development, Animal Health (Steer Project)	Agric Business Management (16) Farm Business Management, Electronic records, Financial Statements, Gross margins, Budgeting, Financial planning Machinery management	Land Preparation (8) Site selection and planning, land preparation, contours, soil fertility	Hydraulics & Irrigation (16) Properties of fluids, Flow in pipes, Pipes, Pumps, Stock watering, Flow measurement, Soils, Crop – water – climate relations, Overview of systems Planning, Management & maintenance
		Crop Production I (16) Plant Propagation and Establishment: Principles, techniques & practices (Propagation Project)			
	SEMESTER 4 Plan, implement and evaluate an enterprise	Animal Production II (16) ADVANCED: Breeding, Nutrition, Fodder, Growth & development	Agri-entrepreneurship (24) Computerised budgets, Entrepreneurship and enterprise management, Human Resource Management	Assessing Natural Resources (16) Climate, Soil Classification, Water, Topography,	Practical Surveying (8) Dumpy level surveying
		Crop Production II (16) Options of production systems and approaches, Production cycles, Crop protection		Vegetation	
Year 3	SEMESTER 5 & 6 Plan and manage a profitable farming System	2 x Production Courses (32 each) Beef Production, Dairy Production, Game Management, Pig Production, Poultry Production, Small Stock Production, Agronomy, Fruit Production, Vegetable Production, Forestry, Sugar Cane Production	Risk Management in Agriculture (32) Managing Risk and Risk Planning, Trade Agreements, Deregulated marketing, Production planning, Feasibility study and Agribusiness planning	Land Use Planning (32) Interpretation of resource data, Optimisation of enterprises, Enterprise selection, Runoff control planning	
	Credits (384) (392)	160	96	96	40