2023/24 ANNUAL TEACHING PLANS: AGRICULTURAL SCIENCES: GRADE 10 (TERM 1)



TERM 1	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8	ı	WEEK 9	WEEK 10/11
CAPS TOPIC	AGRO-ECOLOGY (CAPS PG. 14)	INTERACTIONS IN ECOSYSTEMS AND ECOLOGICAL FARMING (CAPS PG. 14)	GRAZING ECOLOGY (CAPS PG. 14)	PASTURE OR VELD MANAGEMENT (CAPS PG. 14)	BIOMES OF SOUTH AFRICA (CAPS PG. 15)	AGRICULTURAL ECONOMICS (CAPS PG. 15)	POPULATION GROWTH AND ECONOMIC VALUE OF PLANT AND ANIMAL PRODUCTS (CAPS PG. 15)	LAND REDISTRIBUTION (CAPS PG. 15)	INDIGENOUS KNOWLEDGE (CAPS PG. 15)	AGRICULTURAL ORGANISATIONS (CAPS PG. 16)	REVISION/TESTS WEEK & ASSESSMENT
CORE CONCEPTS, SKILLS AND VALUES	Concepts: Ecology, levels of organisation, agroecology, agroecosystems, components of ecosystems, biotic and abiotic factors	Energy flow in ecosystems, nutrient cycling in ecosystems, interactions between organisms, ecological farming methods	Pastures, grazing ecology, optimal grazing, veld types of South Africa, characteristics of grazing plants, scientific approach to pasture evaluation and monitoring	Importance of pastures for the livestock industry, relationship between pasture management and pasture condition, veld management practices and systems, advantages and disadvantages of grazing systems, pasture veld management practices that lead to poor pasture conditions	Main types of biomes of SA, identification of biomes on a map, human impact on biomes, importance of biomes, climate change and global warming, factors that cause global warming, impact of climate change or global warming, long and short-term weather prediction and cyclic patterns of rainfall in SA, adaptation measures	Agri – Industry, classification and utilisation patterns of food products in SA	Impact of population growth and shift on agricultural production in SA, impact of the demand for agricultural commodities on industries, changes in the world and SA population over the past 100 years, impact of secondary and tertiary agricultural development in SA	Land ownership models in SA, land reform programmes in SA, land redistribution and development after 1994, legal concepts, aims/purposes of agricultural legislation, important laws affecting agriculture	Concept of IKS, comparison between indigenous and scientific knowledge, indigenous knowledge used in agriculture, advantages and disadvantages of using indigenous technical knowledge, agricultural production, protection and management of IKS in SA	Basic aims, national, provincial and local levels of agricultural organisations, roles of agricultural organisations in SA, FOUR benefits/ advantages of nationally recognised agricultural organisations for individual farmers	TASK 2: TEST (75%) –100 marks Term 1: Content
REQUISITE PRE- KNOWLEDGE	Link with Grade 7 and 8 NS and SS and Gr 8 and 9 Agricultural Studies										
RESOURCES (OTHER THAN TEXTBOOK) TO ENHANCE LEARNING	Own developed Power Point slides and videos, past examination papers, practical work										
INFORMAL ASSESSMENT	The assessment me	ntioned under formal a	al work & worksheets, assessment is the mini ssessment pieces to er	mum number of pieces							
SBA (FORMAL ASSESSMENT)	TASK 1: (25%) Pract	ical investigation/assi	gnment						TASK 2: TEST (75%)	-100 marks (Term 1: Conter	nt)

1

2023/24 ANNUAL TEACHING PLANS: AGRICULTURAL SCIENCES: GRADE 10 (TERM 2)

TERM 2	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8	WEEK 9	WEEK 10	WEEK 11
CAPS TOPIC	SUSTAINABLE NATURAL RESOURCE UTILISATION (CAPS PG. 17)	SOIL CONSERVATION AND MANAGEMENT (CAPS PG. 17)	WATER MANAGEMENT AGRICULTURAL POLL	` '		SOIL SCIENCE (CAPS F MINERALS (CAPS PG. 1	17)		ROCKS AND THEIR FORMATION (CAPS PG. 17)	Revision and remedial: Task 3: Controlled TEST Marks: 100 Time: 1½ hours Covers term 2 content	
CORE CONCEPTS, SKILLS AND VALUES	Concepts: Natural and agricultural resources, different types of agricultural resources and their importance in agriculture, pressure exerted on natural resources by growing population, sustainable utilisation of natural resources	The concept: Soil degradation, the types (physical, biological and chemical degradations) and processes of soil degradation (focus on causes, adverse effects and control) The impact of soil degradation on agricultural productivity	supply (scarcity of water) agriculture/farming indus specifically in agriculture, agriculture, the basic agriculture, the basic agriculture of soil water, sull quality), the appropriate radopted to prevent and control Act of 1998 The concept: Agricultural kinds/types of soil pollutate economic impact of soil p	ry, the different forms/way factors that affect the sup cultural practices/activities osoil or ground water and nanagement practices/straphtrol water pollution includes	water utilized in ys in which water is used oply of water in s that contribute to the surface water (water ategies which can be ading the National Water es of pollution, the major ontrol measures), the rce sustainability for	following major compone mineral particles The concept: Minerals, th	ain functions/importance of nts of soil: organic matter, ee main differences betwee mary minerals, examples o	soil air, soil water and en primary and secondary	The concept: Rocks/mother rock, the main types of rocks based on their origin (formation) that are important in soil formation processes (igneous rocks, sedimentary and metamorphic), the cultivation properties/suitability of soil that originate from different types of rocks	100% of term	
REQUISITE PRE- KNOWLEDGE	Link with Grade 9 NS										
RESOURCES (OTHER THAN TEXTBOOK) TO ENHANCE LEARNING	Own developed PowerPoint slides and videos, past examination papers										
INFORMAL ASSESSMENT			ork & worksheets, home								
A33E33WENT			essment is the minimum in ssment pieces to enhance	•							
SBA (FORMAL ASSESSMENT)	TASK 3: JUNE EXAMINATION: 100 % of TERM TERM 2 content										

2023/24 ANNUAL TEACHING PLANS: AGRICULTURAL SCIENCES: GRADE 10 (TERM 3)

TERM 3	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEE	K 6	WEEK 7	WEEK 8		WEEK 9	WEEK 10/11
CAPS TOPIC	WEATHERING OF ROCKS (CAPS PG. 19)	SOIL FORMING FACTORS (CAPS PG. 19)	SOIL FORMING PROCESSES (CAPS PG. 19)	ANIMAL STUDIES (CAPS PG. 19)	CATTLE BREEDS (CAPS PG. 20)	SHEEP BREEDS (CAPS PG. 20)	GOAT BREEDS (72%) (CAPS PG. 21)	PIG BREEDS (75%) (CAPS PG. 21)	POULTRY BREEDS (CAPS PG. 22)			REVISION & TESTS
CORE CONCEPTS, SKILLS AND VALUES	The concept: Weathering of rocks, the importance of the weathering of rocks, the weathering factors important in soil formation	The description of the following main soil forming factors: Geographical/topographical factors, climatic factors, organisms/biological factors that influence soil formation, the human activities that can have a direct impact on soil formation, parent material and time	Soil forming processes that are active in soils: mineralisation, humification, leaching, illuviation, plinthite formation, inversion and bioturbation	Development and domestication of farm animals, the general economic importance of the livestock industry in SA, The basic differences between ruminants and non-ruminants, cattle – beef cattle breeds	Dairy cattle breeds, dual purpose cattle breeds (2 examples of each)	The main groups of sheep breeds on their utilisation, general characteristics of a functional ram and ewe, wool breed, dual purpose sheep breeds, mutton breeds, pelt breeds (2 examples each)	Classification of the following main goat breeds based on their utilisation: Milk/dairy breeds, meat breeds, mohair breeds (2 examples each)	Classification of the main group of pig breeds based on their production, the differences between indigenous and improved breeds, pork breeds, bacon breeds (2 examples of each)	Classification of the main types of poultry and differences between the main chicken/fowl breeds (SA indigenous breeds, dual purpose breeds or heavy breeds, light breeds and ornamental/pedigree breeds) according to the following types of production: Broiler production and egg production. Basic requirements for successful production	Classification of the main horse breeds based on their purposes, warm-blooded and cold- blooded horses, riding/light horse breeds, draught horse breeds	Classification of the main game animals based on their purposes, importance of game farming	Task 5: TERM TEST – 100% TERM 3 – Content 100 marks
REQUISITE PRE- KNOWLEDGE	Link with Grade 9 NS and Agricultural Studies Gr 8 & 9											
RESOURCES (OTHER THAN TEXTBOOK) TO ENHANCE LEARNING	Own developed P	Own developed PowerPoint slides and videos, past examination papers										
INFORMAL ASSESSMENT	Questions from past papers, tests, practical work & worksheets, homework, classwork The assessment mentioned under formal assessment is the minimum number of pieces Educators are free to add more informal assessment pieces to enhance learning											
SBA (FORMAL ASSESSMENT)	TASK 4: Research or assignment Task 5: TERM TEST – 100% of TERM: TERM 3 Content :100 marks											

2023/24 ANNUAL TEACHING PLANS: AGRICULTURAL SCIENCES: GRADE 10 (TERM 4)

TERM 4	WEEK 1	WEEK 2	WE	EK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8	WEEK 9	WEEK 10
CAPS TOPIC	PLANT STUDIES (CAPS PG. 23)	HORTICULTURE CROPS (CAPS PG. 23)	HORTICULTURE CROPS (CAPS PG. 23)	FODDER CROPS AND FORESTS (CAPS PG. 24)	BIOLOGICAL CONCEPTS AND PG. 24)	CELL DIVISION (CAPS	REVISION AND END C				
CORE CONCEPTS, SKILLS AND VALUES	The average volumes of production of economically important crops/plants, the main production areas of crops in South Africa, the general economic importance and utilization of crops, criteria for successful crop production, field crops, grain crops, oil seed crops, industrial crops	Horticultural crops, vegetables, fruit	Flower crops, shrubs and indigenous crops	Legume fodder crops, grass fodder crops – climate and soil requirements, The concept: Forests, the classification of the main groups of forests crops/trees, the distinction between indigenous and exotic forests, reasons for promoting and growing protected trees/plant and eradicating invasive trees/plant	The basic concept: Cell, tissue ar organism (organisational levels or organism), plant and animal cells diagrams of plant and animal cells main cell structures and organelle both plant and animal cells, differ animal cell and a plant cell, the ce its application, the concept: cell division the differences between the cells of th	f a multi-cellular including the labelled s, identification of the es and their functions in ences between an ell division process and ivision, the types of cell	Topics Agri-ecology Agri-industry Animal studies Section A: Question 1	me: 2½ hours Farmers must answer all 4 questions Topics Gri-ecology Gri-industry Finimal studies Coption A: Learners must answer all 4 questions Marks: 150 Time: 2½ hours Learners must answer all 4 questions Topics Soil science Plant studies Optimal resource utilisation Biological concepts Coption A: Learners must answer all 4 questions Soil science Plant studies Optimal resource utilisation Biological concepts Coption A: Learners must answer all 4 questions Soil science Plant studies Optimal resource utilisation Biological concepts Coption A: Learners must answer all 4 questions		ion	
REQUISITE PRE- KNOWLEDGE	Link with Gr 9 NS and A	Agricultural Studies Gr 8 a	§ 9				Question 2-4 • Variety of question ty • 3 questions of 35 ma				
RESOURCES (OTHER THAN TEXTBOOK) TO ENHANCE LEARNING	Own developed Power	Point slides and videos, p	past examination papers				Cognitive levels: Kn Comprehension and Analysis, evaluation	owledge – 40% Application-40%			
INFORMAL ASSESSMENT	The assessment ment	tioned under formal ass	work & worksheets, homessment is the minimum ressment pieces to enhan	n number of pieces							
SBA (FORMAL ASSESSMENT)											