FARM PRACTICAL YEAR - FPY COURSE SYNOPSIS

**FPY 401: Permanent Tree Crop Production Techniques**  (4 Units: 36 WKS)
Nursery/Crop establishment; Morphology and physiology of tree crops; Technique of fertilization and pest management; pruning, training and harvesting

**FPY 402: Arable Crop Production Techniques**  (4 Units: 36 WKS)
Site selection; Land clearing and preparation; Crop selection; Crop establishment; fertilizer application; Weed/pest/disease management; Calibration of sprayers; Harvesting; Crop/seed production; Cleaning, sorting and grading; Seed treatment; Drying of produce; Methods of threshing and shelling.

**FPY 403: Horticultural Crop Production Techniques**  (4 Units: 36 WKS)
Site selection; Seed/cultivar selection; Nursery management; Cultural management practices (land preparation, fertilizer application, weeding, irrigation, pest/disease control, produce handling) and marketing

**FPY 404: Soil Fertility and Soil Management Techniques**  (2 Units: 36 WKS)
Plant essential mineral nutrients and deficiency symptoms; Common organic and inorganic fertilizers and methods of application; Soil sampling methods and preparation; Routine laboratory soil analysis; Processes, factors and control of soil erosion and soil water/nutrient conservation.

**FPY 405: Crop Protection Techniques**  (2 Units: 36 WKS)
Seed dressing; Farm and farm tool sanitation; Types and calibration of sprayers; Operation of sprayers; Pesticide dosage calculation and application; Safety precautions and demonstration of first aid in pesticide poisoning; Identification of signs of insect pest management and symptoms of diseases; Determination of disease incidence and severity; Disease album preparation

**FPY 406: Crop Post-Harvest Techniques**  (2 Units: 36 WKS)
Harvesting; Produce handling, sorting and grading; Storage methods/structures and conditions; Packing and storage; Post-harvest deterioration of produce; Physical factors affecting deterioration; Treatment against storage pests and diseases.

**FPY 411: Ruminant Animal Production Techniques**  (4 Units: 36 WKS)
Estimation of age using dentition and horn; Determination of weight without scale; Castration methods: Surgical, elastration, burdizzo methods; Animal identification methods: tagging, branding, notching etc.; Animal handling and restraining methods; Artificial insemination (ai): ai equipment, semen collection, insemination techniques; Semen preservation and storage techniques; Design of teaser dummy; Oestrus detection gadgets, oestrus synchronization; Milking utensils and milking methods.

**FPY 412: Monogastric Animal Production Techniques**  (4 Units: 36 WKS)
Poultry Production: Identification of different breeds of poultry; management of day old chicks; management of broilers, layers, cockerels and turkey; poultry housing and hygiene; poultry vaccination and medication; poultry nutrition: identification of feedstuff used in feeding of poultry, nutrient requirement of different classes of poultry, feed formulation and feed compounding, feed mill operations and management. Pig production: Identification of different breeds of pigs; management system of pigs; management system of pigs; management of pregnant sow, piglets, growers, gilts, breeding sows and boars; disease management and control in pigs; pig housing and hygiene.
FPY 413: Pasture Production and Management  (2 Units: 36 WKS)  
Pasture Management: Pasture establishments techniques; Site selection, land preparation, planting methods for grasses and legumes/basal fertilizer application; Seed selection/collection/treatments for grasses and legumes, planting equipment, establishment techniques for seed production; Weeding, fertilizer/soil, sampling/routine analysis, economic of production/cost, irrigation, cutting and grazing management, fencing methods, management for seed production, diseases and pest situation in pasture and control, grazing techniques. Conservation and Utilization: Forage conservation techniques, hay, haulage standing, hay etc.; Silage, types of hay balers and silos, forage harvester/combine forage harvester, costing; Feeding techniques for conserved forages.

FPY 414: Micro-Livestock & Fish Production Techniques  (4 Units: 36 WKS)  
Rabbit production: Identification of different breeds of rabbits; management of kittens; management of different classes of rabbits; diseases management and control in rabbits; housing of rabbits; feeding of different classes of rabbits; value addition of rabbit meat.  
Fish: Pond construction and Hatching technique: Site selection, types of ponds, pond construction; Pond management, water quality and maintenance; Hatcheries operations and spawning techniques. Grass-cutter: Grass-cutter Production: Domestication and management of grass-cutter; feeding, management, system of management, housing, health and disease control, marketing. Snail: Snail Production: Species identification, stocking/stocking density, rearing systems, housing, feed and feeding, incubation, snaillets, growers and breeders, handling; snail transportation and marketing.

FPY 415: Animal Health Management  (2 Units: 36 WKS)  
Livestock hygiene and sanitary measures on livestock, farms, disease diagnosis, treatment and general drug administration techniques, vaccination programme for different classes of livestock and other preventive measures for various livestock diseases; Ante-mortem and post-mortem inspection animals of slaughter houses.

FPY 416: Animal Product, Processing & Storage  (2 Units: 36 WKS)  
Recording and sampling of milk; Milk handling: processing of milk into yoghurt, cheese, ghee, butter; Preservation of milk; Slaughtering methods; Retail cuts of meat; Meat processing: sausage, burger, smoking, etc.; Determination of egg quality; Storage of egg; Production of egg powder.

FPY 421: Farm Management, Farm Records & Accounting  (3 Units: 36 WKS)  
Farm record keeping: Concept of book keeping; Financial statements; Financial ratios; Farm planning; Farm budgeting; Farm labour management; Feasibility studies preparation; and report preparation. Practical field works: Farm survey; broadsheet preparation and data encoding; farm business analyses and assessment. Practical collaborative training: Personnel from established farms; Formal lending institution and financial sub sectors like Nigerian agricultural credit and rural development; Union Bank and Ogun state Agricultural and Multi-purpose Credit and Rural Development Bank (OSAMCA) would be invited to give professional talks on setting up and operating farm business, utilizing loan.

FPY 422: Agricultural Extension Practices  (2 Units: 36 WKS)  
Extension trips to rural communities/villages; Extension trips to electronic, print and media houses; Training on radio and television production/broadcast; Video and audio recording/auditioning; Video and documentary production, production of extension guide (magazine, handbill leaflets, posters etc.) script writing and drama presentation/production; Training on web development, graphic design/art work/painting; Interaction with state extension agencies.

FPY 431: Farm Design, Farm Survey and Land Use Planning  (1 Unit: 36 WKS)
Farm survey equipment and uses; Common terms and procedure for chain and compass survey; Mapping of plots; Concepts and methods of land use planning; Physical, economic and social component of land use planning; Soil profile description and classification; Soil productivity evaluation.

FPY 432: Agricultural Mechanization & Workshop Practice (3 Units: 36 WKS)
Concepts of agricultural mechanization; Need for mechanization, basic roles of farm mechanization; Various areas for mechanization; Farm machinery operation and maintenance; Tractor and tractor components; Tractor driving and operation; Sheet metal to produce simple farm tools and equipment such as feeding trough, livestock cage, etc.; Simple machine for cleaning and sorting, refrigerator, packaging and crop storage; Construction of battery cages, rabbit cages, cribs, carrying crates and feeders.

FPY 433: Agricultural Meteorological Practices (2 Units: 36 WKS)
Agricultural Metrological Elements and their observation (the physical climatic elements such as temperature, sunshine and radiation, wind, clods, humidity, rainfall, soil temperature and soil moisture and other hydrometeors including dews, fog, open water evaporation, plant transpiration etc.); Biological/ agricultural elements (including plants, animals, trees both as individuals and as communities); Introductory concept of crop phenology and climatic effect on the objects of agriculture in general); Simple layout of agro metrological station and required weather instruments, procedures of data collection, and simple processing, analysis and mapping of agro metrological information.

FPY 441: Organic Agricultural Practices (1 Unit: 36 WKS)
Animals: Identification of resistant species/strains of animals; Management practices – free range management of chicken; Natural feed stuffs and organic supplements; Ethno-veterinary practices in animal husbandry; Animal waste management. Crops: Identification/selection of resistant crop varieties; Site selection; Method of land preparation – zero/minimum tillage; Cultural practices – weed, insect pest and diseases control strategies; Soil fertility maintenance strategies; post harvest handling.

FPY 498: Field Trip (1 Unit: 36 WKS)
Special Practical Skills. Field trips required.

FPY 499: Programme Writing and Report (3 Units: 36 WKS)
Detailed reports of all activities in the various categories.