

Doc- Sierra-Leone

Programmes of Instruction

Ab037 (X)

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in

Agricultural Education

NJALA UNIVERSITY COLLEGE
UNIVERSITY OF SIERRA LEONE



copy A

AGRICULTURE AND NATIONAL DEVELOPMENT IN AFRICA

Rapid economic development is taking place throughout the continent of Africa. Yet, most of the people are engaged in the essential activity of tilling the soil to provide food for themselves and their families. Until other sectors of the economies of these countries can become more firmly rooted, this dependence upon agricultural production for survival will continue. Thus in the immediate future, the needs, goals and aspirations of the peoples of Africa revolve around the creation of an efficient and broadly-based agricultural industry.

Founded in 1964, Njala University College is dedicated to service in the achievement of this goal, not only in Sierra Leone but throughout Africa. The three faculties of Agriculture, Education, and Basic Sciences offer theoretical and practical work--at both degree and certificate levels--responsive to the needs of African countries.

The College's programmes in Agricultural Education have as their basic purpose the training of teachers who can through service in the educational systems of their respective countries, act as catalysts in the move toward increased agricultural productivity and an enriched standard of living for all the people.

THE ROLE OF AGRICULTURAL EDUCATION

Agricultural Education is the science of teaching agricultural knowledge and skills. Teachers in training are taught the latest and most effective methods of dealing with agricultural problems as these relate to the economic, social and political conditions prevailing in modern Africa. In the years to come, the pupils of these future teachers, armed with such knowledge as they leave their primary and secondary schools, will be better equipped to increase the productivity of their own farming enterprises and to serve as exemplars for their families and friends who have not benefitted from formal training in agriculture.



Pruning Coffee



Budding Citrus

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AGRICULTURAL EDUCATION AT NJALA UNIVERSITY COLLEGE

Njala University College is the only institution in West Africa offering specialised degree and certificate programmes in Agricultural Education. Utilising a highly-qualified staff of lecturers in this field, and drawing from the staff and facilities available in other areas of the institution, the College has organised integrated programmes of instruction and practical experience in the teaching of agricultural skills. Current student enrollment numbers over 300³³⁰, from Sierra Leone, The Gambia, Cameroun, Ghana, Nigeria, and the West Indies. Thirty-five of these students were in Agricultural Education programmes in the 1967-1968 Session.

28 Foreign

600 by 1975

BACHELOR OF SCIENCE DEGREE IN AGRICULTURAL EDUCATION

At degree level, three-year and four-year programmes lead to the Bachelor of Science degree in Agricultural Education. This course provides instruction in agriculture, education, and basic sciences, together with a supervised programme of work experience in which each student participates in farm work for at least six hours per week.

Graduates are qualified to teach at all levels in secondary schools.

Higher Certificate in Agricultural Education

Students who successfully complete the three-year certificate programme receive the Higher Certificate in Agricultural Education. * Intensive academic and practical training in agriculture and applied science, as well as an integrated series of courses in education, prepare these students for teaching at post-primary and lower secondary levels.

*In Sierra Leone, the Higher Teachers Certificate in Agricultural Education is awarded by the Ministry of Education to students who complete this programme.



Applying Insecticide



Simple Mechanical Cultivation

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AGRICULTURAL EDUCATION

Degree Syllabus

<u>Year One</u>	<u>Year Two</u>
Introduction to Agricultural Education General Botany Basic English Language Basic Physical Science General and Systematic Zoology Supervised Agriculture Practice Physical Education	Woodworking Shop Metal Shop Work General Chemistry Organic Chemistry Introduction to Crop Husbandry Plantation Crops Diseases of Crops Pests of Crops Geology Intermediate English The Philosophical Basis of Education The Psychological Basis of Education General Psychology Supervised Agriculture Practice
<u>Year Three</u>	<u>Year Four</u>
Introduction to the Study of Africa Course Construction, Curriculum Development, and Programme Planning Methods of Teaching Agriculture Farm Building Construction Soil and Water Conservation Eng- ineering Livestock Management Diseases of Crops Pests of Crops Arable and Forage Crops Fruit, Vegetable and Ornamental Crops Introductory Soils Soil Fertility and Fertilizers The Psychological Basis of Education The Psycho-Sociological Basis of Education Supervised Agriculture Practice	Introduction to the Basic Economic Problems of Society and Allocation of Resources Farm Organisation and Management Practice Teaching Adult Education in Agriculture Methods of Teaching Agricultural Mechanics Audio-Visual Education in Agriculture Farm Machinery and Mechanisation Agricultural Buildings, Structures and Equipment The Economically Important Crops of Sierra Leone Large Scale Farming and Field Exper- imentation School Organisation and Administration Supervised Agriculture Practice

Certificate Syllabus

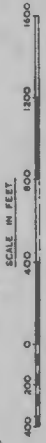
<u>Year One</u>	<u>Year Two</u>
Introduction to the Study of Africa Tool Fitting and Conditioning Basic Agricultural Carpentry Metal Shop Work Biology Basic English Language Elementary Physical Science Introduction to Agricultural Education Basic Arithmetic Plantation Crops Physical Education Supervised Agriculture Practice	Arable and Forage Crops Plantation Crops Livestock Management General Soils, Soil Fertility, Soil Classification, Conservation and Management Farm Mechanisation, Farm Buildings, Soil and Water Conservation Engineering Intermediate English Language Methods of Teaching Agriculture Psychological Basis of Education General Psychology Course Construction, Curriculum Development and Programme Planning Supervised Agriculture Practice
	<u>Year Three</u>
	Student Teaching Adult Education in Agriculture Methods of Teaching Agricultural Mechanics Independent Study and Special Projects Audio-Visual Education in Agriculture Pests and Diseases of Crops General Agricultural Economics Farm Management Agricultural Marketing Supervised Agriculture Practice

NJALA UNIVERSITY COLLEGE

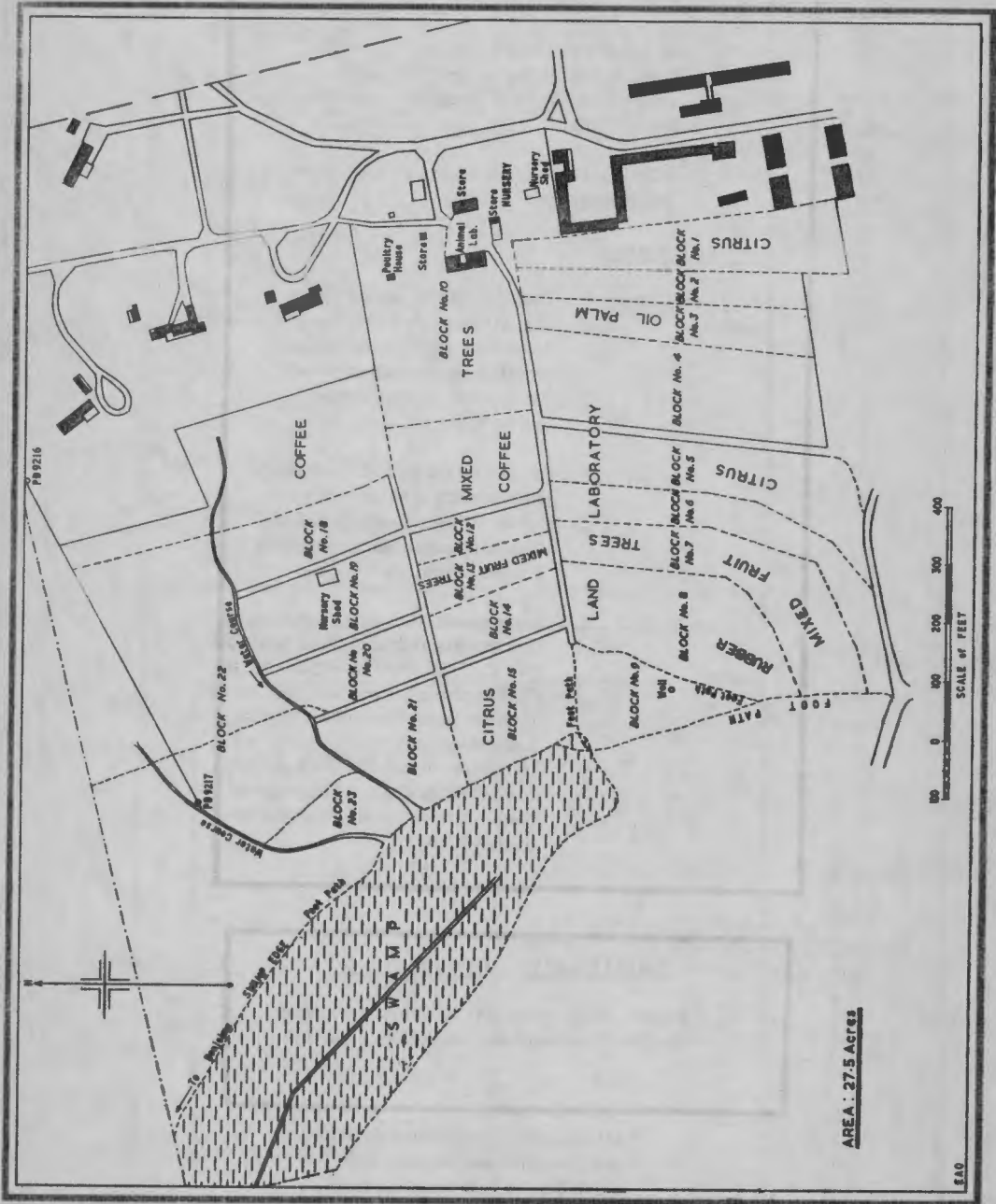


KEY

- Senior Staff Quarters New
- Senior Staff Quarters Old
- Junior Staff Quarters New
- Junior Staff Quarters Old
- Security Post
- Rest House
- Area Boundary



AGRICULTURAL EDUCATION FARM



REQUIREMENTS FOR ADMISSION*

Degree Programmes

Three Years

- At least five G. C. E. passes including English Language, at least two of which shall be "A" level in Chemistry and Biology or Botany, and
- "O" level in English Language and any two other subjects.

Four Year

- Either; 1. General Certificate of Education at Ordinary level in at least five subjects, including English Language and either Mathematics or a science subject,

or; 2. West African School Certificate with credits in at least five subjects, which must include English Language, Mathematics or a science subject.
- 3. A prospective student, possessing five credits at School Certificate or five G. C. E. "O" level passes, including a science subject or Mathematics, but not including English Language, may be permitted, after interview, to take the College Entrance test in English Language to enable him or her to complete the qualification.

Certificate Programme

- Four G. C. E. passes at 'O' level, including English Language and one science subject.

*All prospective candidates will be required to attend an interview, which may be held in the applicant's country of residence.



Building Nursery Shed



Land Preparation



Making Compost



Harvesting Citrus

S T A F F

Programmes of instruction in Agricultural Education draw upon members of staff in many disciplines. Instruction in the teaching of agricultural subjects is provided by lecturers well versed in the latest methods and techniques. Faculty of Agriculture staff teach needed skills in such areas as soils, crops, animal science, agricultural economics, agricultural engineering, and the building and maintenance of farm structures.

Supporting staff in the Faculty of Education teach foundation courses in educational psychology and the philosophy of education.



A class in Agricultural Engineering

The Faculty of Basic Sciences offers instruction and laboratory training in those fields of applied science--chemistry, physics, mathematics, botany, biology and zoology--which form the basic framework upon which knowledge of modern agriculture is built.

Over ⁶⁵seventy lecturers from many lands around the world combine to offer expert guidance to students of these programmes. The on-going staff research projects into the basic agricultural and educational problems in Africa generate highly relevant instructional materials for use by future teachers of agriculture.

5 Sierra Leone staff are in U.S. Training

FACILITIES

Located 125 miles east of the capital city of Freetown, the College offers a unique setting for the teaching of agricultural education in Africa. The main campus encompasses 3,060 acres and includes 13 classrooms, 9 teaching and research laboratories, a well-equipped library, and dormitory, dining and other facilities for the enrollment of over 300 students. The internationally known Rice Research Station at Rokupr is an integral part of the College. Student field trips to this station provide opportunities for learning of recent advances and techniques of scientific rice culture.



Library

On the Njala campus, specific farm areas are devoted to experimentation on the various farm crops indigenous to Africa. The agricultural education farm comprises 27.5 acres.

In villages and towns near the College, primary and secondary schools with practical programmes of vocational agriculture serve as cooperating centres for teacher training in agriculture. Supervised teaching practice in these schools enables students to utilise their newly-acquired information and skills under the guidance of trained, sympathetic teachers.



Making Concrete Block



Managing Citrus



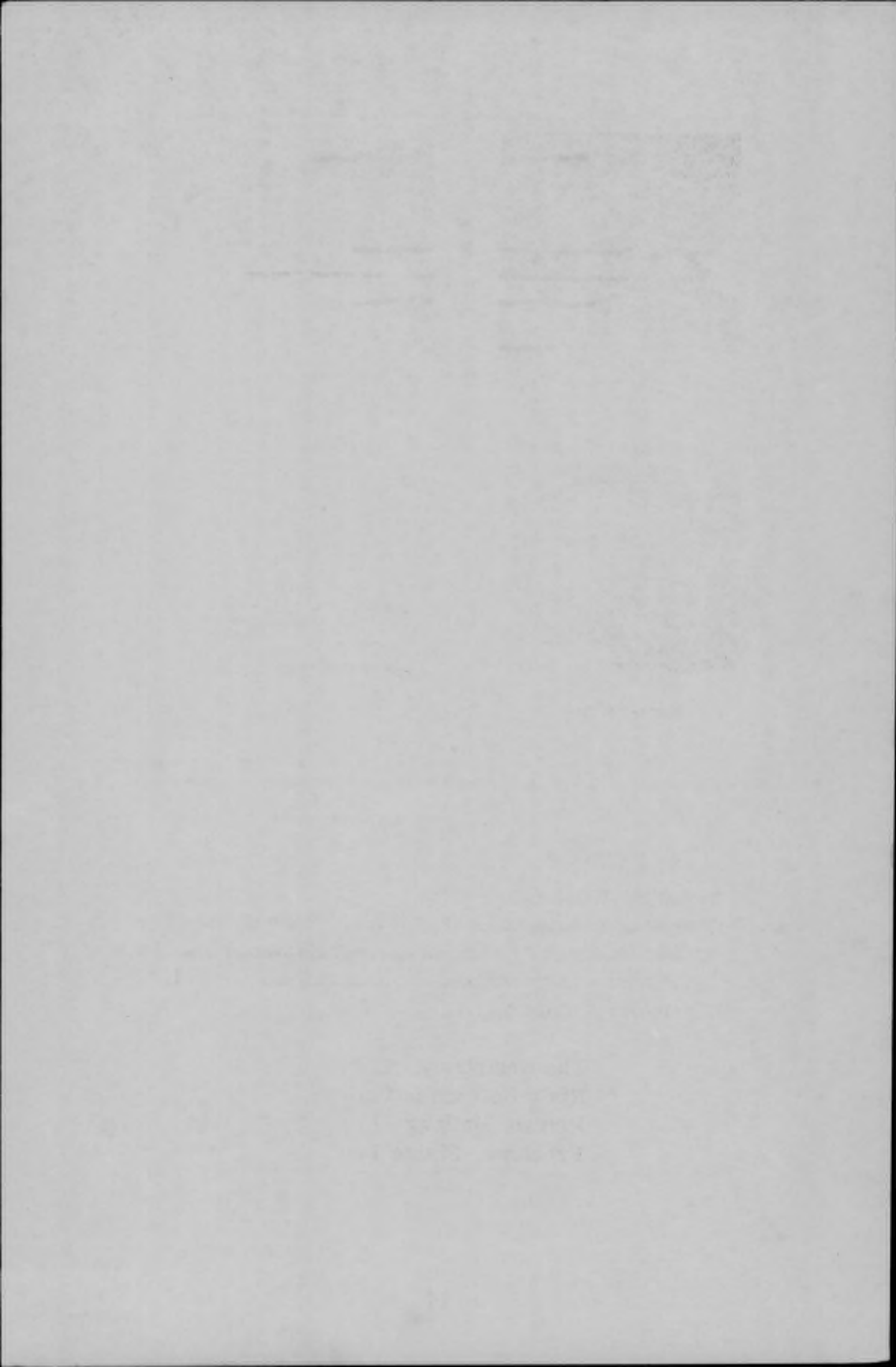
Managing Poultry



Recreation

For further information regarding programmes in Agricultural Education, or regarding degree programmes in General Agriculture, Home Economics or Education; or Certificate programmes in General Agriculture, Agricultural Trades and Crafts or Home Economics, write to:

**The Registrar
Njala University College
Private Mailbag
Freetown, Sierra Leone.**



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