

## **1. COURSE NAME & CREDIT LOAD**

**COURSE CODE: AAD 503 Research Methods in Agricultural Administration**

**COURSE TITLE:**

**NUMBER OF CREDITS: 3 Credits/Compulsory**

**COURSE DURATION: Two hours per week for 15 weeks (30 hours)**

**Course developed by:** \*Prof. Ajayi M., (WKs 1-3) Dr (Mrs) Fapojuwo K E (WKs 4-5)., Dr Oyeyinka R.A (WKs 6-7), Adeogoun .O ( WKs 8-10)., Dr Bolarinwa K.K ( WKs 11-13) .

\* Ph.D. Adult Education (Human Resources) (Ibadan)

Ph.D. Agricultural Extension and Rural Development Ibadan

Email: bkolade17@gmail .com

**Office Location:** – Department of Agricultural Administration

**Consultation Hours:** 2.00-4.00p.m. Monday toThursday.

## **2. COURSE DETAILS:**

### **2.1: Research Methods in Agricultural Administration**

The course covers specific concept of research methods, data analysis, interpretation and presentation in agricultural administration.

### **2.2 Course Content:**

Identification and definition of research problems, objectives and hypothesis principles of research design, sampling techniques questionnaire preparation distribution and retrieval, data collection and analysis and presentation of research findings, research methods in agricultural administration and application of descriptive and inferential statistics.

### **2.3 Course Justification:**

As future Agricultural Administrators and researchers, students should understand the methods for carrying out research related to agricultural administration and others.

## **2.4 Course Objectives:**

The general objective of the course is to enable students acquire knowledge and skill in carrying out researches related to administration. At the end of the course students will be able to:

- Understand what research in administration is ;
- acquire skill in the area of identifying research problems ;
- describe the research objectives and formulate research hypotheses;
- understand principles of research design;
- Identify sampling techniques;
- student should be able to design questionnaire, and learn how it will be administered and retrieved ;
- explain data collection and analysis,
- describe types of Research methods in agricultural administration and application of descriptive and inferential statistics

## **2.5 Course Requirements:**

Students are expected to participate in all the course activities and have a minimum of 75% attendance to qualify for writing the final examination. Students will be required to submit a report of web research and write term paper on any of the topics treated in this course. This will account for part of the continuous assessment. Students will be expected to treat all study questions and submit assignments fortnightly for grading.

All class assignments should be word processed.

## **2.6 Methods of Grading:**

### **NO ITEM SCORE**

1. Class Assignment 5
2. Class Participation 5
3. Class Test 15
4. Internet Contribution 5

5. Comprehensive Final Examination 70

**Total 100**

### **2.7 Course Delivery Strategies:**

The course objectives will be achieved by the traditional face to face weekly lecture

on designed topics, theoretical materials (lecture notes) provided during lectures, seminars, and group exercises. The course delivery strategies will be supported through tutorials and study review at the end of the semester. Students will be encouraged and required to read around the topics and visit agricultural organisation.

Groups will be created to enhance web discussion of the course and students will be required to have an e-mailaccount.

### **3.0 LECTURE CONTENT**

**Week1:** Concept of research and how to generate research problems will be discussed; **Objective:** Students will be able to understand what research is and learn how to generate research problems.

#### **Description:**

A general overview of the course will be introduced to students. The need for the study of research in administration and how research problems will be generated will be discussed.

#### **Study Questions:**

1. What is research?
- 2 How would research problems be generated?
- 3 What are the procedure to be taken in providing solutions to research problems?

#### **Reading List:**

- 1.Terry A. Olowu. 2004 . Research Methodology in Agricultural Extension *Agricultural Extension Society of Nigeria book series.*
- 2.Oladele I.O., Akinbile .L.O. and Adekoya A.E. 1998. *Social Science Research*

*approaches Techniques and Reporting*. Shanu Books Nigeria.Ltd

3.Nnamdi Asika 1991. *Research Methodology in the behavioural sciences*  
Longman Nigeria

**Week 2:** Research objectives and hypotheses,

**Objective:** Students will be able to explain meaning and purpose of setting research's objectives and formulating research hypotheses .

**Description:**

**1st Hour:** Meaning and reasons for setting research's objectives and formulating research hypotheses will be discussed and investigated.

**2nd Hour:** The implication of setting and formulating good objectives and hypotheses in conducting research related to agricultural administration will be discussed.

**Study Questions:**

1. What are the important of setting objective and formulating hypotheses in scientific research?
- 2 Explain how research's objectives and hypotheses will be generated from problems identified.

**Assignment:** Write short notes on the following  
Research design, objectives and hypothesis

**Reading List**

1Terry A. Olowu. 2004 . *Research Methodology in Agricultural Extension*  
*Agricultural Extension Society of Nigeria book series*.

2.Oladele I.O., Akinbile .L.O. and Adekoya A.E. 1998. *Social Science Research approaches Techniques and Reporting*. Shanu Books Nigeria.Ltd

3.Nnamdi Asika 1991. *Research Methodology in the behavioural sciences*  
Longman Nigeria

**Week 3:** Principles of research design,

**Objective:** Students will have the knowledge of types of research design and principles to follow in designing research related to agricultural administration.

**Description:**

Various types of research design will be discussed. The benefits and limitation of each research design will also be explained. Steps to be taken in designing research related to agricultural administration will be discussed.

**Study Questions:**

1. List the types of research design
2. When and why will you recommend any of the research design to your organisation?.

**Reading List:**

1Terry A. Olowu. 2004 . Research Methodology in Agricultural Extension  
*Agricultural Extension Society of Nigeria book series.*

2.Oladele I.O., Akinbile .L.O. and Adekoya A.E. 1998. *Social Science Research approaches Techniques and Reporting.* Shanu Books Nigeria. Ltd

3.Nnamdi Asika 1991. *Research Methodology in the behavioural sciences.*  
Longman Nigeria

**Week 4:** Sample and Sampling Techniques in agricultural administration.

**Objective:** Students will have a clear understanding of the meaning of sampling and sampling techniques.

**Description:**

Types of sampling methods will be discussed and the merits of each sampling methods will be generated from the student using student/lecturer participatory approach.

**Study Questions:**

1. Distinguish between population and sample?
2. Why is random sampling said to be the most scientific and objective methods of sampling?

**Reading List:**

1Terry A. Olowu. 2004 . Research Methodology in Agricultural Extension  
*Agricultural Extension Society of Nigeria book series.*

2.Oladele I.O., Akinbile .L.O. and Adekoya A.E. 1998. *Social Science Research approaches Techniques and Reporting*. Shanu Books Nigeria. Ltd

3.Nnamdi Asika 1991. *Research Methodology in the behavioural sciences*. Longman Nigeria

### **Week 5: The size of sampling and its effect on power of test.**

**Objective:** Student will know that sampling size depend on the population size and resources available to the researcher and be able to select sampling size from the universal population

#### **Description:**

Size of a research sample will be discussed; student will be taught how selection of sample will be done without bias. Effect of sampling on power test will be discussed under type I and II error.

#### **Study Questions:**

1. Is there any ideal size of a research sample?
2. How would error be minimized in scientific research?

#### **Reading List**

1.Terry A. Olowu. 2004 . *Research Methodology in Agricultural Extension Agricultural Extension Society of Nigeria book series*.

2.Oladele I.O., Akinbile .L.O. and Adekoya A.E. 1998. *Social Science Research approaches Techniques and Reporting*. Shanu Books Nigeria. Ltd

3.Nnamdi Asika 1991. *Research Methodology in the behavioural sciences*. Longman Nigeria

4.Anthony A.2006. *Conducting Reserch in Education and the Social Sciences*. TAHIWA NETWORKS LTD.

### **Week 6: Questionnaire preparation**

**Objective:** Students will be able to understand that questionnaire is one of the instrument that can be used to collect data and they will be able to prepare a questionnaire that will be used to examine a particular research problem

**Description:**

**1st Hour:** Various research instrument and types of questionnaire will be discussed.

**2nd Hour:** Student will be led on how to prepare questionnaire

**Study Questions:**

1. Distinguish between close and open ended questionnaires?

**Reading List:**

1.Terry A. Olowu. 2004 . Research Methodology in Agricultural Extension  
*Agricultural Extension Society of Nigeria book series.*

2.Oladele I.O., Akinbile .L.O. and Adekoya A.E. 1998. *Social Science Research approaches Techniques and Reporting.* Shanu Books Nigeria. Ltd

3.Nnamdi Asika 1991. *Research Methodology in the behavioural sciences.*  
Longman Nigeria

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TAHIWA NETWORKS LTD.

**Week 7:** Distribution and retrieval,

**Objective:** - Students will be able to know how and when to distribute and retrieve questionnaires from the field.

**Description:**

Methods of distributing questionnaire and retrieving it will be explained to student  
Students will be giving opportunity to distribute and retrieve questionnaire among staff of an agricultural organisation..

**Study Questions:**

1.Mention instrument that can be used to collect data

2. What method will you use to distribute and collect data from a staff of an agricultural organisation?

**Reading List:**

1.Terry A. Olowu. 2004 . Research Methodology in Agricultural Extension  
*Agricultural Extension Society of Nigeria book series.*

2.Oladele I.O., Akinbile .L.O. and Adekoya A.E. 1998. *Social Science Research approaches Techniques and Reporting*. Shanu Books Nigeria. Ltd

3.Nnamdi Asika 1991. *Research Methodology in the behavioural sciences*. Longman Nigeria

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**Weeks 8 & 9:** Data collection and analysis.

**Objective:** Student will be able to understand reliability and validity of an instrument for data connection.

**Description:**

Two weeks will be devoted to these topics so that student will be able to have indepth knowledge of test for reliability and validity of instrument coding of scaled items in the instrument collation of scores and arrangement of tables.

**Study Questions:**

- 1.Why reliability and validation of instrument necessary?
2. How would coding of scales' items in an instrument be done?

**Reading List:**

1.Terry A. Olowu. 2004 . *Research Methodology in Agricultural Extension Agricultural Extension Society of Nigeria book series*.

2.Oladele I.O., Akinbile .L.O. and Adekoya A.E. 1998. *Social Science Research approaches Techniques and Reporting*. Shanu Books Nigeria. Ltd

3.Nnamdi Asika 1991. *Research Methodology in the behavioural sciences*. Longman Nigeria

4.Anthony A.2006. *Conducting Reserch in Education and the Social Sciences*. TAHIWA NETWORKS LTD.

**Weeks 10 Interpretation of scores and arrangement of tables**

**Objective:** Students will be able to interpret scales' items scores , arrange tables draw graph and Chart

**Description:**

Lecturer will describe and lead in training the student on how to interpret and report percentages and scores data in a project

**Study Questions:**

1. Mention some of the usefulness of scales items in an instrument
2. State logical methods appropriate for the arrangement of tables in an instrument

**Reading Lists:**

1. Terry A. Olowu. 2004 . *Research Methodology in Agricultural Extension Agricultural Extension Society of Nigeria book series.*
2. Oladele I.O., Akinbile .L.O. and Adekoya A.E. 1998. *Social Science Research approaches Techniques and Reporting.* Shanu Books Nigeria. Ltd
3. Nnamdi Asika 1991. *Research Methodology in the behavioural sciences.* Longman Nigeria
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**Week 11: Presentation of Research Finding**

**Objective:** Students will learn research finding presentation's components that are foundation for good quality research finding presentation.

**Description:**

Student will be exposed to research presentation components and method of presenting research report to the public.

**Study Questions:**

- What are the research finding components?
- What methods would you apply in presenting your research finding in seminar?

**Week 12-13: Application of descriptive and inferential statistics**

**Objective:** Students will be able to understand and utilize descriptive and inferential statistics.

**Description:**

The lecturer will discuss descriptive and inferential statistics and teach them how to make use of descriptive and inferential statistics when conducting research related to administration.

Assignment on how to make use of descriptive and inferential statistics will be given to student

**Study Questions:**

1. Describe descriptive and inferential statistics?
2. Distinguish between descriptive and inferential statistics?

**Reading List:**

1. Terry A. Olowu. 2004 . Research Methodology in Agricultural Extension *Agricultural Extension Society of Nigeria book series.*
2. Oladele I.O., Akinbile .L.O. and Adekoya A.E. 1998. *Social Science Research approaches Techniques and Reporting.* Shanu Books Nigeria. Ltd
3. Nnamdi Asika 1991. *Research Methodology in the behavioural sciences.* Longman Nigeria
4. Anthony A. 2006. *Conducting Reserch in Education and the Social Sciences.* TAHIWA NETWORKS LTD.

**Week 14: Reviwed test and assignments.**

**Objective:** Answer to test and assignment will be discussed in order to expose the student to the correct answers

**Description:**

The test and assignments will be discussed with specific examples.

**Study Questions:**

1. Test and assignment questions..

**Week 15: Revision Exercise.**

**Objective:** Students will revise all topics taught during the semester.

**Description:** All topics dealt with in this course will be reviewed.. Students will discuss what they have learnt from the course. Students will be allowed to ask

questions on specific topics that are not clear to them.

**Key for the Reading List:**

1 Available in the University Library

2 Available in Bookshops

3 Available on the internet.

4 Personal collections

5 Departmental Library