



THE FEDERAL UNIVERSITY OF TECHNOLOGY, AKURE

Department of Fisheries and Aquaculture Technology

FAT 413: STATISTICS AND EXPERIMENTATION IN FISHERIES (3 UNITS).

COURSE PARTICULARS

Course Code: FAT 413

Course Title: Statistics and Experimentation in Fisheries

No. of Units: 3

Course Duration: Three hours of theory per week for 15 weeks.

Status: Compulsory

Course Email Address: NIL

Course Webpage: NIL

Prerequisite: NIL

COURSE INSTRUCTOR

Prof. L.C. Nwanna

*Dept. of Fisheries and Aquaculture Technology,
Federal University of Technology, Akure, Nigeria.*

Phone:

Email:

COURSE DESCRIPTION

Statistics and Experimentation in Fisheries is a course that will introduce the students to biometrical concepts in Fisheries and Aquaculture Technology. The course synopsis is as follows: Review of biometrical concepts in agriculture; planning of experiment, analysis of variance, transformation of data, experimental designs such as; completely randomized design, Least Square, missing values, multiple comparison, nested design, factorial experiments, split-split-plot design; analysis of data from qualitative variables; application of correlation and regression analysis in Fisheries and Aquaculture experiments.

COURSE OBJECTIVES

The objectives of this course are to:

- introduce students to Statistics and Experimentation in Fisheries and Aquaculture and
- help the students to apply knowledge gained in data collections, interpretation of results which are very vital in their final year project/experiments analyses and to make them outstanding in dealing with experimental parameters in future.

COURSE LEARNING OUTCOMES / COMPETENCIES

Upon successful completion of this course, the student will be able to:

(*Knowledge based*)

- understand the basic concepts in Fisheries Statistics and Experimentation.
- understand how to collect data, run data interpret data and write a good project report.

GRADING SYSTEM FOR THE COURSE

This course will be graded as follows:

Class Attendance	10%
Assignments	10%
Test(s)	20%
<u>Final Examination</u>	<u>60%</u>
<u>TOTAL</u>	<u>100%</u>

GENERAL INSTRUCTIONS

Attendance: It is expected that every student will be in class for lectures. Attendance records will be kept and used to determine each person's qualification to sit for the final examination. In case of illness or other unavoidable cause of absence, the student must communicate as soon as possible with any of the instructors, indicating the reason for the absence.

Academic Integrity: Violations of academic integrity, including dishonesty in assignments, examinations, or other academic performances are prohibited. You are not allowed to make copies of another person's work and submit it as your own; that is plagiarism. All cases of academic dishonesty will be reported to the University Management for appropriate sanctions in accordance with the guidelines for handling students' misconduct as spelt out in the Students' Handbook.

Assignments and Group Work: Students are expected to submit assignments as scheduled. Failure to submit an assignment as at when due will earn you zero for that assignment. Only under extenuating circumstances, for which a student has notified any of the instructors in advance, will late submission of assignments be permitted.

Code of Conduct in Lecture Rooms and Laboratories: Students should turn off their cell phones during lectures. Students are prohibited from engaging in other activities (such as texting, watching videos, *etc.*) during lectures.

READING LIST

Legend

- 1- Available in the University Library
- 2- Available in Departmental/School Libraries
- 3- Available on the Internet.
- 4- Available as Personal Collection
- 5- Available in local bookshops.

COURSE OUTLINE

Week	Topic	Remarks
1	Course overview	During this first class, the students will be given an explanation of what the course looks like and what is expected of them.
2 and 3	<ul style="list-style-type: none"> • Introduction to Statistics and Experimentation in Fisheries 	This topic requires that the students understand the basic concepts of Statistics and Experimentation in Fisheries.
4 and 5	<ul style="list-style-type: none"> • Biometrical concepts in Fisheries and Aquaculture Technology. 	The students should understand biometrical concepts in Fisheries and Aquaculture Technology.
6,7and8	<ul style="list-style-type: none"> • planning of experiment, • analysis of variance, • transformation of data, 	Students should be able to plan a good experiment.
9,10,11, and 12	<ul style="list-style-type: none"> • Experimental designs such as: • completely randomized design, • Least Square, missing values, • multiple comparison, • • nested design, • factorial experiments, • split-sport and spli-spli-plot design; 	<ul style="list-style-type: none"> • Students will be requested to submit an assignment. • Students should understand the concept of experimental design and its application in Fisheries and Aquaculture.
		MID-SEMESTER TEST

13 & 14	<ul style="list-style-type: none"> • Analysis of data from qualitative variables; 	Students should understand the
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	<ul style="list-style-type: none">• application of correlation and regression analysis in Fisheries and Aquaculture experiments.	concepts of regression and correlation in Fisheries and Aquaculture Experiments.
15	REVISION	Students' general evaluation.