



# THE FEDERAL UNIVERSITY OF TECHNOLOGY, AKURE

## Department of Fisheries and Aquaculture Technology

### FAT 306 – Fishing Gear Technology

#### COURSE PARTICULARS

**Course Code:** FAT 407

**Course Title:** Fishing Gear Technology

**No. of Units:** 3

**Course Duration:** Two hours of theory and two hours of practicals per week for 15 weeks.

**Status:** Compulsory

**Course Email Address:** NI

**Course Webpage:** NIL

**Prerequisite:** NIL

#### COURSE INSTRUCTORS

**Dr. A. A. Dada**

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#### COURSE DESCRIPTION

This course is designed primarily for students in fisheries and aquaculture disciplines to teach students on how to manipulate different fishing gears and crafts for exploitation of fisheries resources available in the water bodies. The scope of this course encompasses definition of fishing gear and craft, types of fishing gear and fishing craft, properties of the materials used in the construction of hooks, traps and nets, fishing gear construction materials, netting gear, non-netting gear, twine notation and numbering system. Floats, sinkers and their characteristics and properties. Assessment of efficiency of fishing gear. Design and construction of different types of fishing gear and their maintenance. Concept of fishing gear technology and trends of development,

#### COURSE OBJECTIVES

The objective of this course is to:

- Introduce students to modern fishing gears and crafts used in the exploitation of fisheries resources in both freshwater and marine water bodies and their mode of operation.

#### COURSE LEARNING OUTCOMES / COMPETENCIES

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

*(Knowledge based)*

- Define fishing gear and craft
- Explain concept of fishing gear technology and trends of development of fishing gears and crafts.
- Explain classification of fishing activities and gears
- explain types of fishing gear and fishing and fishing craft and list the properties of the materials used in the construction of hooks, traps and nets.
- describe fishing gear construction materials, netting gear, non-netting gera, twine notation and numbering system.
- describe floats, sinkers and their characteristics and properties.
- Describe design and construction of different types of fishing gear and their maintenance

*(Skills)*

- use the knowledge acquired in the class to construct some fishing gears and crafts.

## GRADING SYSTEM FOR THE COURSE

This course will be graded as follows:

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

## GENERAL INSTRUCTIONS

**Attendance:** It is expected that every student will be in class for lectures and also participate in all practical exercises. Attendance records will be kept and used to determine each person's qualification to sit for the final examination and computation of the final score. In case of illness or other unavoidable cause of absence, the student must communicate as soon as possible with the course lecturer, 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:** Students are expected to submit assignments as scheduled. Failure to submit an assignment as at when due will earn you zero for that assignment.

***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. Food and drinks are not permitted in the laboratories.

## READING LIST

<sup>1</sup>Adesulu, E.A. and Sydenham, D.H.J. 2002. The Freshwater Fishes and Fisheries of Nigeria. 397p

<sup>1</sup>Binyotubo, T. E. 2011. A Guide to Fishing Gear Technology. 60p

<sup>2</sup>FAO. 1985. Definition and classification of fishery vessels types.FAO Fisheries Technical Paper No. 267. 63p.

<sup>2</sup>FAO. 1990. Definition and classification of fishing gear categories. FAO Fisheries Technical Paper No. 222. 92p.

<sup>1</sup>Gupta, S.K. and Gupta, P.C. 2010. General and Applied Ichthyology (Fish and Fisheries). 1133p

<sup>1</sup>Moses, B.S. 1983. Introduction to Tropical Fisheries. 117p

<sup>1</sup>Reed, W. 1967. Fish and Fisheries of Northern Nigeria. 144 – 177

<sup>1</sup>Tait, R.V. 1972. Elements of Marine ecology: An Introductory Course (2<sup>nd</sup> Edition). 209 – 224.

### ***Legend***

1- Available in local bookshops.

2- Available on the Internet.

## COURSE OUTLINE

Week	Topic	Remarks
1 & 2	Definition fishing gear and craft. Concept of fishing gear technology and trends of development. Clasification of fishing activities and gears.	During this first class, the expectation of the students from the course will also be documented.
3 & 4	Types of fishing gear and fishing craft, properties of the material used in the construction of hooks, traps and nets.	Practical exercise will involve opening up a desktop PC to examine the components and specify their functions.
5 & 6	Fishing gear construction materials, netting, and non-netting gear.	When learning about computer configurations, students will be taught on what to look for when deciding on what PC or laptop to buy.  The lecture on Operating Systems will involve brief introduction to various operating systems but emphasis will be laid on Windows.
7	Twine notation and numbering system.	Exercises will involve creating folders and sub-folders, and using Antivirus program to clean up a disk.
8 & 9	Floats, sinkers and their characteristics and properties.	Students will be requested to prepare a well formatted document as assignment.
<b>MID-SEMESTER TEST</b>		
10 & 11	Assessment of efficiency of fishing gear. Design and construction of different types of fishing gear.	Microsoft Excel is the spreadsheet program to be used. Students will be taught on efficient use of the program for routine activities.

12 & 13	Design and construction of different types of fishing gear and their maintenance.	Students will be divided into groups and given topics to prepare slides on, for group presentation during the lab session.
14 & 15	REVISION	The Internet is a very powerful tool for research. Students will be taught on how to make the best use of it for their academic pursuits.