



# THE FEDERAL UNIVERSITY OF TECHNOLOGY, AKURE

## *Department of Fisheries and Aquaculture Technology*

### FAT 508 – AQUATIC RESOURCES BIODIVERSITY

#### COURSE PARTICULARS

**Course Code:** FAT 508

**Course Title :** Aquatic Resources Biodiversity

**No. of Units:** 2 units

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

**Status:** Compulsory

**Course Email Address:** NIL

**Course Webpage:** NIL

**Prerequisite:** NIL

#### COURSE INSTRUCTORS

**Dr (Mrs) M. O. Olufayo**

*Room 7, SAAT Annex Building*

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#### COURSE DESCRIPTION

This course is aquatic resources biodiversity. It will help the students in know the diverse aquatic resources of Nigeria; understand current status of Nigerian aquatic resource biodiversity, ecosystem diversity and characterization. Students will be able to discuss the goals, vision, obstacles and threats to biodiversity conservation in Nigeria. Socio-economics and dynamics of aquatic resource diversity exploitation for Nigeria.

#### COURSE OBJECTIVES

At the end of this course , the students will be able to :

- Understand aquatic resource biodiversity protection in Nigeria;
- Know the goals, vision, obstacles and threats to biodiversity conservation;
- Explain aquatic ecosystem diversity and characterization ;
- Discuss the current status of Nigerian aquatic resource biodiversity;
- Classify and explain socio-economics and dynamics of aquatic resource diversity exploitation strategies in Nigeria

## **COURSE LEARNING OUTCOMES / COMPETENCIES**

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

*(Knowledge based)*

At the end of this course, the students will be able to :

- Understand aquatic resource biodiversity protection in Nigeria;
- Know the goals, vision, obstacles and threats to biodiversity conservation;
- Explain aquatic ecosystem diversity and characterization ;
- Discuss the current status of Nigerian aquatic resource biodiversity;
- Classify and explain socio-economics and dynamics of aquatic resource diversity exploitation strategies in Nigeria.

## **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>
<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 . 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. No noise making during lectures

## READING LIST

<sup>1</sup>Boehlert, G. 2000. Biodiversity and Marine Fisheries. *In*: Sullivan, K. (ed). Marine Biological Diversity. Oceanography Magazine, Vol. 9, Issue 1.

<sup>3</sup>Byatt, A. ,Alstair, F. and Martha ,H. 2011: The Blue Planet: A Natural History of the Oceans. New York. DK Publishers, 2011.

<sup>4</sup>Harvey, B. 2001. Blue Millennium: Managing Global Biodiversity and Fisheries. US Environmental Protection Agency: Aquatic Biodiversity.

<sup>3</sup>Read more : <http://www.waterencyclopedia.com/A-Biodiversity.html#ixzz2S2rMDFal>

### 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	Introduction and course overview	The expectation of the students from the course will be discussed.
2	Definition and need for aquatic biodiversity conservation	This topic requires that the students understand the term aquatic biodiversity conservation.
3 & 4	The use and management of biodiversity, genetic and species diversity	The students should understand the different types of aquatic biodiversity, uses and their managements..
5	Current status of Nigerian aquatic resources biodiversity.	Students should know the current state of our aquatic resources .
6 &7	Aquatic ecosystem diversity , characterization, ecological niches, parity profile.	Assignment will be given to the students.
8 & 9	<ul style="list-style-type: none"> <li>• Impact assessment and minimizing adverse impacts.</li> </ul>	Students should discuss these adverse impacts in our aquatic environment..
		MID-SEMESTER TEST

10,11& 12	Social – economics and dynamics of aquatic resource diversity exploitation strategies for Nigeria	Students will be involved in discussing this topic i.e there will be teacher/ student discussion/relationship..
13	Revision and Evaluation	At this time, evaluation will be done to assess how far the students' expectations for the course have been met.
14&15	Lectures free /Examination	This is the week preceding the final examination and Examination starts..