SAMUEL ADEGBOYEGA UNIVERSITY OGWA, EDO STATE
COLLEGE OF BASIC AND APPLIED SCIENCES
DEPARTMENT OF BIOLOGICAL SCIENCES
2017/2018 SESSION, FIRST SEMESTER

Course Code: ZOO 211
Course Title: Lower Invertebrates
Course Units: 3
Lecturer: Fakeye, O. Daniel

INTRODUCTION

This course is designed to help students understand the biology and phylogeny of lower invertebrates of medical and economic importance. It will also help students to identify important members of phylum Protozoa, Porifera, Platyhelminthes, Aschelminthes, Annelids, Mollusca, Arthropoda and Echnodermata.

OBJECTIVES

At the end of this course, students should be able to

i. state the characteristics of Protozoa, Sponges, Platyhelminthes, Aschelminthes, Annelids, Molluscs, Arthropods and Echnoderms.
ii. classify *Plasmodium falciparum*, *Trypanosoma gambiense*, *Giardia intestinalis* and *Entamoeba histolytica*
iii. describe the life cycles of *Plasmodium falciparum*, *Trypanosoma gambiense*, *Schistosoma haematobium*, *Fasciola hepatica* and *Taenia solium*
iv. highlight the economic importance of Protozoa, Sponges, Platyhelminthes, Aschelminthes, Annelids, Molluscs, Arthropods and Echnoderms

COURSE CONTENT

Identification and phylogeny of protozoa. Biology and economic importance of protozoa. Identification and phylogeny of Porifera. Biology and economic importance of Porifera. Identification and phylogeny of Platyhelminthes. Biology and economic importance of Platyhelminthes. Identification and phylogeny of Aschelminthes and annelids. Biology and economic importance of Aschelminthes and annelids. Identification and phylogeny of Mollusca. Biology and economic importance of Mollusca. Identification and phylogeny of Arthropoda and Echinodermata. Biology and economic importance Arthropoda and Echinodermata.

WEEKLY ACTIVITIES

WEEK	TOPIC
1	General characteristics of protozoa, classification and biology of protozoa.
2	Life cycles of Entamoeba, Trypanosome, Plasmodium and Giardia. Economic importance of protozoa
3	General characteristics of Porifera, classification and economic importance of Porifera.
4	General characteristics of Platyhelminthes, Life cycles of Schistosome, Liver fluke, and Tapeworm, Economic importance of Platyhelminthes.
5	Characteristics of Aschelminthes, classification and biology of Aschelminthes.
6	Life cycles of *Ascaris lumbricoides*, economic importance of Aschelminthes.
7	Mid-semester test
8	General characteristics of Annelids, classification and economic importance.
9	Biology and general characteristics of Molluscs. Economic importance of Molluscs
10	Characteristics of Arthropods, biology and economic importance of Arthropods.
11	General characteristics, classification, biology and economic importance of Echinoderms.
12	Revision

COURSE ASSESSMENT

Attendance……..... 5%

Mid-Semester Test ……...15%

Assignment …….. 10%

Examination ……..70%

ASSIGNMENT

Weekly assignments will be given to students. Submission date is Monday of every week.

TEXTBOOKS/REFERENCE MATERIALS

- Jordan, E.L. and Verma, P.S. (2011). Invertebrate Zoology. Rajendra Ravindra Printer pvt Ltd. New Delhil .Pg 176-190.
- Yoloye, V.L (1994). Basic Invertebrate Zoology. Codes and Quanta Publisher Nig. Ltd, Ikoyi.

OFFICE LOCATION: Room A106

LECTURE ROOM: Class room 3

LECTURE HOURS: Tuesday 10am-12noon, Thursday 12-1pm

OFFICE HOURS: Tuesday: 1.00-3.00pm

Wednesday: 1.00-2.00pm