

PESTICIDES IN AGRICULTURE

CPT 510

COURSE PHILOSOPHY AND OUTLINE

A. Units: 3 (1 Hr. Theory; 2 Hrs. Practical)

B. Lecturer:-

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B.Sc, M.Sc (Biochemistry), Ph.D (Plant Pathology)

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Consultation during Office Hours: Tuesdays, 11:00 a.m. - 12:00 noon; or by appointment

C. Course Description:-

Theory

A.1 Chemistry and actions of Insecticides, fungicides, bactericides, nematocides, acaricides, herbicides, rodenticides, etc.

A.2 Classification, formulations, applications, toxicological residues, environmental degradation.

A.3 Pesticides residue problems in developing countries. Health and safety precautions. Uses and abuses. Pesticides : Hazards and Alternatives.

Practicals

B.1 Pesticide application, crop protection equipment, usage and maintenance.

B.2 Practical health and safety precautions in pesticide application, protective clothing.

B.3 Systematic movement of pesticides in plants/insects. Degradation of pesticides in soil and water.

D. Classroom

COLPLANT Auditorium (CPL)

E. Venue for Practicals

Open field for demonstration of pesticide application

F. Class Time

11:00 am – 1:00 pm, Wednesdays

12:00 noon – 1:00 p.m. Fridays

G. Textbooks

Required:

CPT 510 Pesticides in Agriculture Lecturer's Note, copied or photocopied.

Optional:

1. Pesticides in Agriculture and the Environment. 2002. Editor : Willis B. Wheeler.
Publisher : Marcel Dekker Inc.
2. FAO (1990) International code of conduct on the distribution and use of pesticides, amended to include Prior Informed Consent, Rome/Italy

Provided:

Additional reference materials in the class.

H. Course Objectives

To increase the students' knowledge of:

1. the types of pesticides, their chemistry and mode of action.
2. Uses and abuse of pesticides in agriculture;
3. the risks of pesticides to humans and the environment;
4. the safe and proper application, transportation, storage and disposal of pesticides.

I. Grading

1. Evaluation of students' performances depends on class tests, practical assessment and final examinations.
2. There will be three tests, one at the end of each theoretical section and a final one to cover all the sections. This gives a total of four recordable tests in the semester.
3. The final test will be given at the week preceding the lecture-free week.
4. Tests will be returned to students as soon as possible, usually at the next class.

J. Schedule of Theory and Practical Classes

Week	Task
1	Introduction. General Discussion, Course Content, Attendance
2	Theory. Section A.1 Pesticides: Chemistry and Mode of Action
3	Section A.1 ...contd. Pesticides : Chemistry and Mode of Action
4a	Test 1 : Chemistry and Mode of Action of Pesticides
4b	Section A.2 Pesticides: Classification, Formulations, Applications
5	Section A.2 Pesticides: Classification, Formulations, Applications...contd
6	Practical 1 : Pesticides' equipment, usage and maintenance
7a	Test 2 : Pesticides classification, formulations and applications (including test of practicals)
7b	Section A.3 Health and safety, human & environmental considerations
8	Practical 2 : First Aid Application to Victims of Pesticide Poisoning (Artificial Respiration)
9	Test 3 : Health and Safety Considerations (including test of practicals)
10	General Revision
11	Test 4 : All Sections
12	Lecture-free week

K. Class Attendance

1. Students are required to attend all lectures, practicals and tests.
2. Cases of illness or other genuine unexpected absence should be reported to the lecturer as soon as possible.
3. Students with excused absences will be given an opportunity to make up a missed test at a date and time to be determined by the lecturer, **but not later than two weeks** after the original test date (except for rare or extenuating circumstances).
4. It is the students' responsibilities to contact the lecturer for such make-ups.
5. Missed tests, not retaken, will count as zero

L. Students' Conducts

1. Students are expected to adhere to [University of Agriculture, Abeokuta, UNAAB Code of Conduct](#). This is available in Students' Handbook. They are expected to conduct themselves as adults and in a highly professional manner in class. Disruptions will not be tolerated. Smoking or the use of other tobacco products is not permitted in class.
2. Cheating during tests, examinations and other assignments is a violation of university guidelines on academic integrity and will result in a zero grade for that infraction. In addition, violator(s) may be subject to any punishment designated under university guidelines.

M. Student Disabilities

1. Every effort will be made to assist [students with disabilities](#) of any type. This will include additional time to take examinations, special help sessions during practicals, or any other assistance to facilitate an understanding of the course material.
2. We usually do not assign lecture seating, but you can arrange with your class chairman if you need a seating arrangement that will help you in hearing the lecture or taking notes more easily. You can also make this special request known the lecturer at the beginning of the semester.

