Title: Land Clearing and Soil Preparation
Abbreviation and Number: AGRL121 AB Paper No.: 14-85
School: Chemistry, Environmental and Life Sciences
Department: Biology
Credits: 1
Course Sequence: ( ) Fall ( ) Spring (X) Fall and Spring
Hours Per Week: ( ) Lecture ( ) Seminar (2) Laboratory ( ) Studio ( ) Kitchen ( ) Other (Specify)
Pre-requisite(s): First-year standing
Co-requisite(s): None

COURSE DESCRIPTION
Students are exposed to various techniques involved in the clearing of land for cultivation. They also receive hands-on training in the use of various farm machinery and implements necessary for land clearing and cultivation.

SPECIFIC OBJECTIVES
Upon successful completion of this course, students will be able to
1. Identify the appropriate tool for clearing different types of land;
2. Discuss the beneficial and negative effects of different tools;
3. Demonstrate effects that minimise environment; and
4. Discuss human impact on the ecology of land through cultivation.

COURSE CONTENT
I. Land preparation
   A. Steps on clearing the farm
   B. Removal of rocks
   C. Back filling
   D. Cutting down trees
   E. Use of trees and shrubs that removed

II. Plowing

III. Kinds and types of tools

IV. Implement and machinery use in land clearing and soil preparation
   A. Tractor
   B. Brush removal machine
   C. Trailer
   D. Shovel
   E. Chainsaw and heavy duty chains
   F. Disc ploughs
   G. Harrows and bed shaper
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ASSESSMENT
Assignment................................. 15%
Project...................................... 10%
Laboratory................................. 20%
Mid-term examination............... 20%
Final examination...................... 35%
Total........................................ 100%

REQUIRED TEXT