



Module Description/Course Syllabi

Study Programme : Magister of Soil Science

Faculty of Agriculture

Universitas Andalas

1. Course number and name

AGR 534 Plant Ecophysiology

2. Credits and contact hours/Number of ECTS credits allocated

3 sks (2-1)

3. Instructors and course coordinator

Prof. Dr. Ir. Auzar Syarif, MS

4. Specific course information

A. Brief description of the content of the course (catalog description) This course will discuss the relationship between the environment and plants. The main environment factors affecting plant physiology discussed are sunlight, temperature, water, nutrients and other environments. Plant response to extreme environmental (water stress, flood, etc.) conditions.

B. Course Content

Week Course Content

1 Introduction: Ecology & Crop Physiology

<p>2 Review on Ecology & Crop Physiology</p> <p>3 <i>Interaction between environmental factors and crop Physiology:relationship between high temperature and Crop Physiology</i></p> <p>4 Relationship between low temperature and Crop Physiology</p> <p>5 Relationship between macro nutrients and Crop Physiology</p> <p>6 Relationship between micro nutrients and Crop Physiology</p> <p>7 Relationship between light and Crop Physiology</p> <p>8 MID Term</p> <p>9 Relationship between light and Crop Physiology (...continued)</p> <p>10-11 Relationship between water and Crop Physiology</p> <p>12-13 <i>Antagonism Interaction:</i> Relationship between light and Crop Physiology</p> <p>14 Relationship between Microorganisms and Crop Physiology</p> <p>15 Relationship between Pest-Diseases and Crop Physiology</p> <p>16 FINAL Exam</p>
<i>C. Semester when the course unit is delivered</i>
Even Semester
<i>D. Mode of delivery (face-to-face, distance learning)</i>
Face to face
<i>5. Learning and teaching methods</i>
Teacher Centered Learning (TCL) and <i>Student Centered Learning</i> (SCL) approaches. <u>In addition, (1) Small Group Discussion and (2) Case Study were also carried out</u>

6. Language of instruction

Indonesia and English (English Class)

7. Assessment methods and criteria

Summative Assessment :

1. Tasks : 5%
2. Quiz : 5 %
3. Mid Semester : 25%
4. Final Semester : 25%
5. Praktikum :30%
6. Attendance : 5%

Formative Assessment:

1. Thumb up and thumb down
2. Minutes paper