



**King Saud University**

**College of Food and Agriculture Sciences**

**Department of Plant Production**

## **Course Specifications**

### **PPS 201 – Principles of Plant Production**

**Dr. Salah El-Hendawy**

**Coordinator**



### Course Specifications

Institution: <b>King Saud University</b>	Date of Report: <b>2013</b>
College/Department : <b>College of Food and Agricultural Sciences, Plant production Department</b>	

#### A. Course Identification and General Information

1. Course title and code: <b>Principles of Plant Production (PPS 201)</b>			
2. Credit hours: <b>3 (2+1)</b>			
3. Program(s) in which the course is offered. <b>Plant production Sciences</b> (If general elective available in many programs indicate this rather than list programs) <b>This course is taught to students in all programs at the College of Food and Agriculture Sciences</b>			
4. Name of faculty member responsible for the course: <b>Dr. Salah El-Hendawy</b>			
5. Level/year at which this course is offered: <b>4<sup>th</sup> level/ 2<sup>nd</sup> year</b>			
6. Pre-requisites for this course (if any): <b>Bot 102 (General Botany)</b>			
7. Co-requisites for this course (if any): <b>N/A</b>			
8. Location if not on main campus: <b>N/A</b>			
9. Mode of Instruction (mark all that apply)			
a. Traditional classroom	<input checked="" type="checkbox"/>	What percentage?	<input type="text" value="60"/>
b. Blended (traditional and online)	<input type="checkbox"/>	What percentage?	<input type="text"/>
c. e-learning	<input type="checkbox"/>	What percentage?	<input type="text"/>
d. Correspondence	<input type="checkbox"/>	What percentage?	<input type="text"/>
f. Other ( <b>lab session</b> )	<input checked="" type="checkbox"/>	What percentage?	<input type="text" value="40"/>
Comments:			
<p><b>PPS 201 is a required general course that explores the theories and practices in field and horticultural crops. Modes of instruction include traditional lecture-class discussion (60%) and lab session (40%). Students are encouraged to learn and develop the skills needed to deal with different field and horticultural crops. In addition, students are exposed to new technologies in plant production.</b></p>			

#### B Objectives



<p>1. What is the main purpose for this course?</p> <ul style="list-style-type: none"> <li>• Emphasize the importance of plant production to human beings.</li> <li>• Study the different plant production practices under field conditions.</li> <li>• Illustrations of different environmental factors affecting plant production.</li> <li>• Expose students to recent trends in plant production.</li> </ul>
<p>2. Briefly describe any plans for developing and improving the course that are being implemented. (e.g. increased use of IT or web based reference material, changes in content as a result of new research in the field)</p> <ul style="list-style-type: none"> <li>• Introducing tutorials</li> <li>• Involve the simulation field for different agricultural practices near campus</li> <li>• Using Smart Classroom for teaching</li> <li>• Evaluation of students by quizzes and using different type of questions with feedback after each quiz.</li> </ul>

**C. Course Description (Note: General description in the form to be used for the Bulletin or handbook should be attached)**

1. Topics to be Covered		
List of Topics	No. of Weeks	Contact Hours
Agriculture – human relations; an introduction	1	2
Environment in relation to crop production	3	6
Cropping systems of field crops	2	4
Cropping systems of horticultural crops	2	4
Plant reproduction	2	4
Harvesting, handling and storing of agricultural crops	2	4
Recent trends in plant production	1	2
Plant production in Saudi Arabia	1	2

2. Course components (total contact hours and credits per semester):						
	Lecture	Tutorial	Laboratory	Practical	Other:	Total



Contact Hours	28	N/A	14	N/A	N/A	42
Credit	2	N/A	1	N/A	N/A	3

3. Additional private study/learning hours expected for students per week.

N/A

4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy

	NQF Learning Domains And Course Learning Outcomes	Course Teaching Strategies	Course Assessment Methods
<b>1.0</b>	<b>Knowledge</b>		
1.1	Recall importance of plant production to human being	Lecture and discussion	Write report
1.2	Recognize the relationship between various environmental factors and crop production	Lecture and discussion	Written Test, MCQs
1.3	Define agricultural field practices appropriate for growing field and horticultural crops	Lecture and discussion	Written Test, MCQs
1.4	Recognize the most important cropping systems of field and horticultural crops	Lecture and discussion	Written Test, MCQs
<b>2.0</b>	<b>Cognitive Skills</b>		
2.1	Reorganize certain aspects related to horticultural and field crop production	Lectures and group discussion	Written Essay Test
2.2	Reorganize and explain practical actions to manage plant production.	Lectures and group discussion	Written Essay Test
2.3	Evaluate environmental factors affecting plant	Lecture and discussion	Written Essay Test

	production		
2.4	Develop approaches to manage and maintain efficient production potential for horticultural and field crop production	Lecture and discussion	Written Essay Test
<b>3.0</b>	<b>Interpersonal Skills &amp; Responsibility</b>		
3.1	Show ability to constructively work in a group	Feedback and discussion during lectures	Lab reports and/ or exams
3.2	Demonstrate personal skills to identify factors affecting plant production.	Feedback and discussion during lectures	Lab reports and/ or exams
<b>4.0</b>	<b>Communication, Information Technology, Numerical</b>		
4.1	Calculate basic seed germination parameters and seeding rate of common crops	Lab groups	Lab reports and/ or exams
4.2	Illustrate abilities to calculate accumulative seasonal heat units and chilling hours of common crops.	Lecture	Reports and exams

5. Schedule of Assessment Tasks for Students During the Semester			
	Assessment task (e.g. essay, test, group project, examination, speech, oral presentation, etc.)	Week Due	Proportion of Total Assessment
1	1 <sup>st</sup> mid-term theoretical and practical exams and reports	Week 6	30%
3	2 <sup>nd</sup> mid-term theoretical and practical exams and reports	Week 12	30%
4	Final Exam	Week 15	40%
	Total		100%

#### D. Student Academic Counseling and Support

1. Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice. (include amount of time teaching staff are expected to be available each week) 2 hours per course per week
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#### E. Learning Resources



1. List Required Textbooks 1. Anonyms (1997). Principles of Plant Production. King Saud University Press (Arabic)
2. List Essential References Materials (Journals, Reports, etc.) None
3. List Recommended Textbooks and Reference Material (Journals, Reports, etc) None
4. List Electronic Materials (eg. Web Sites, Social Media, Blackboard, etc.) • <a href="http://www.moa.gov.sa">www.moa.gov.sa</a> • <a href="http://www.fao.org">www.fao.org</a>
5. Other learning material such as computer-based programs/CD, professional standards or regulations and software. None

### F. Facilities Required

Indicate requirements for the course including size of classrooms and laboratories (i.e. number of seats in classrooms and laboratories, extent of computer access etc.)
1. Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.) <a href="#">Lecture and laboratory rooms accommodate up to 30 students</a>
2. Computing resources (AV, data show, Smart Board, software, etc.) <a href="#">AV and Smart Board</a>
3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list) <a href="#">Basic biology laboratory equipment</a>

### G Course Evaluation and Improvement Processes

1. Strategies for Obtaining Student Feedback on Effectiveness of Teaching <a href="#">Course teaching evaluation by the students through “Edugate” system of King Saud University website by the end of each semester.</a>
2. Other Strategies for Evaluation of Teaching by the Program/Department Instructor None
3. Processes for Improvement of Teaching • <a href="#">Training sessions for instructors.</a> • <a href="#">Workshops to facilitate the exchange of experiences among faculty members.</a> • <a href="#">Regular colleagues meetings where problems are discussed and solutions given.</a>



4. Processes for Verifying Standards of Student Achievement (e.g. check marking by an independent member teaching staff of a sample of student work, periodic exchange and remarking of tests or a sample of assignments with staff at another institution)

- Students are given chance to double-check marking of their mid-term exams.
- According to KSU rules, students who believe they are under graded can have their papers checked by a second reviewer.

5. Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement.

- Compare syllabi and course description with other universities (including those on the net).
- Biannual meetings of members of department council to discuss improvement.
- Have an internal curriculum committee to review the curriculum periodically and suggest improvements.

**Faculty or Teaching Staff:** Dr. Salah El-Hendawy

**Signature:** \_\_\_\_\_

**Date Report Completed:** \_\_\_\_\_

**Received by:** Prof. Nasser A. Al-Suhaibani

**Department Head**

**Signature:** \_\_\_\_\_

**Date:** \_\_\_\_\_