

ATTACHMENT 5.

Kingdom of Saudi Arabia
**The National Commission for Academic Accreditation &
Assessment**

Course Specifications
(CS)

PLPT 298

Course Specifications

Institution	King Saud University	Date	Oct. 22 2017
College/Department	College of Food & Agric. Sciences/Dept. Plant Protection		

A. Course Identification and General Information

1. Course title and code: Introduction to Noninfectious Plant Diseases [PLPT 298]			
2. Credit hours: 2 credits. (1+1)			
3. Program(s) in which the course is offered: Plant Protection (If general elective available in many programs indicate this rather than list programs) General elective in plant protection program only.			
4. Name of faculty member responsible for the course Prof. Ahmad Saad Al-Hazmi			
5. Level/year at which this course is offered: General elective			
6. Pre-requisites for this course (if any) PLPT 221 (Principles of Plant Pathology)			
7. Co-requisites for this course (if any) None			
8. Location if not on main campus Only on main campus			
9. Mode of Instruction (mark all that apply)			
a. traditional classroom	<input checked="" type="checkbox"/>	What percentage?	70
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	<input checked="" type="checkbox"/>	What percentage?	30
Comments:			

B Objectives

<p>1. What is the main purpose for this course?</p> <p>Basic knowledge of:</p> <ul style="list-style-type: none"> - Noninfectious plant diseases (NPD) & their characteristics. - Main factors causing NPD. - Soil factors & some examples of NPD they cause. - Climate factors & some examples of NPD they cause. - Agricultural chemicals & some examples of NPD they cause. - Air pollutants & some examples of NPD they cause. - Storage NPD.
<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"> • Handouts were developed (in Arabic), and are periodically reviewed. • Coloured symptoms are being collected from different sources. • Symptoms are being collected from field and preserved, and web based materials are used. • A tailored textbook is planned to be written and published within the next few years.

C. Course Description (Note: General description in the form used in Bulletin or handbook)

<p>Course Description:</p> <p>Importance of noninfectious plant diseases (NPD). Their causal main factors. Study of some examples. Prevention and management of such diseases.</p>

1. Topics to be Covered		
List of Topics	No. of Weeks	Contact hours
Introduction to this course.	0.5	0.5
Characteristics of noninfectious plant diseases (NPD)	0.5	0.5
Soil Factors:		
a. Soil moisture, aeration and temp.	2	2
b. Soil acidity & alkalinity	1	1
c. soil mineral disorders	2	2

Climate Factors:		
a. High and low air temperature	2	2
b. Light	1	1
Agric. Chemicals:		
a. Injuries by seed disinfection & by foliage spraying	0.5	0.5
b. Injuries by fungicides	0.5	0.5
c. Injuries by insecticides	0.5	0.5
d. Injuries by herbicides	0.5	0.5
Air Pollutants:		
a. Particulate matters (PM)	0.5	0.5
b. Non-photochemically produces gaseous pollutants	1	1
c. Gases produced by photochemically reactions	1	1
Storage Diseases:		
a. Factors causing NPD	0.5	0.5
b. Example: Black heart of potato	1	1

2. Course components (total contact hours and credits per semester):						
	Lecture	Tutorial	Laboratory or Studio	Practical	Other:	Total
Contact Hours	15 hrs.		30 hrs.	5 hrs.		50 hrs.
Credit	1		1			2

3. Additional private study/learning hours expected for students per week.	1.5
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4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy

On the table below are the five NQF Learning Domains, numbered in the left column.

First, insert the suitable and measurable course learning outcomes required in the appropriate learning domains (see suggestions below the table). **Second**, insert supporting teaching strategies that fit and align with the assessment methods and intended learning outcomes. **Third**, insert appropriate assessment methods that accurately measure and evaluate the learning outcome. Each course learning outcomes, assessment method, and teaching strategy ought to reasonably fit and flow together as an integrated learning and teaching process. (Courses are not required to include learning outcomes from each domain.)

Code #	NQF Learning Domains And Course Learning Outcomes	Course Teaching Strategies	Course Assessment Methods
1.0	Knowledge		
1.1	List the main characteristics of NPD, and name the major groups of causal factors of NPD.	Lecture	
1.2	Describe the disorders caused by some adverse factors of soil, climate, chemical, and air pollutants on plants.	Lecture / lab.	
1.3	Outline measures to protect plants from some adverse abiotic factors.	Lecture / discussion.	
2.0	Cognitive Skills		
2.1	Compare & differentiate between adverse effects of low & excess of some factors of: soil, air, chemicals and pollutants.	Lecture / lab.	
2.2	Diagnose the NPD from plant and/or soil you are supplied.	Lab.	
3.0	Interpersonal Skills & Responsibility		
3.1	-	-	
4.0	Communication, Information Technology, Numerical		
4.1	-	-	
5.0	Psychomotor		
5.1	-	-	

5. Map course LOs with the program LOs. (Place course LO #s in the left column and program LO #s across the top.)

Course LOs #	Program Learning Outcomes (Use Program LO Code #s provided in the Program Specifications)									
	1.1	1.2		2.1		3.2		4.1		
1.1										
2.1										

6. 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	First lecture test	6th week	15 %
2	First lab. test	7th week	10 %
3	Second lecture test	12th week	15 %
4	Second lab. test	12th week	15 %
5	Submitting diseased plant specimens	12th week	5 %
6	Final lecture exam.	14th week	40 %

D. Student Academic Counseling and Support

<p>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)</p> <ul style="list-style-type: none"> - Course instructor: available during all working hours every day. - Lab. facilities & lab. technicians: available all day. - Instructor: E mail: asalhazmi@ksu.edu.sa - Office number: 467-8433 - Mobile: 0503233756

E Learning Resources

<p>1. List Required Textbooks Al-Hazmi, A. S. 2017. Introduction to Noninfectious Plant Diseases. (a notebook in Arabic).</p>
<p>2. List Essential References Materials (Journals, Reports, etc.) - Abu Argoub, M.M. 1994. Nonparasitic Plant Diseases (physiological disorders). Academic Press. Cairo.</p>
<p>3. List Recommended Textbooks and Reference Material (Journals, Reports, etc) - Agrios, G.N. 2005. Plant Pathology (5th Ed.). Read chapter 10 “Environmental Factors That Cause Plant Diseases”. Pp. 357-384.</p>

4. List Electronic Materials, Web Sites, Facebook, Twitter, etc. Important, recent, and related websites are provided periodically to students.
5. Other learning material such as computer-based programs/CD, professional standards or regulations and software. Films, C.D.s and documentary films are used whenever are needed & available.

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.) <ul style="list-style-type: none">• Class room, capacity: 20-25 seats.• Teaching laboratory: 20 seats.• Good size greenhouse.• 3 computers are available in the lab.
2. Computing resources (AV, data show, Smart Board, software, etc.) <ul style="list-style-type: none">• Computing resources are available whenever are needed.
3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list) <ul style="list-style-type: none">• All needed tools and equipments are available in our teaching or research labs.

G Course Evaluation and Improvement Processes

1 Strategies for Obtaining Student Feedback on Effectiveness of Teaching 1.1. Discussions with students. 1.2. Evaluation of teaching by individual students.
2 Other Strategies for Evaluation of Teaching by the Instructor or by the Department 2.1. Discussions during departmental periodic meetings. 2.2. Discussions with peer colleagues within the department.
3 Processes for Improvement of Teaching 3.1. Periodic reviews of course materials & teaching methods. 3.2. Feedback from students & colleagues. 3.3. Handouts are periodically reviewed.

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)

4.1. Consulting with another peer colleague.

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

- **Periodic review of the course objectives & topics.**
- **Based on student feedback & marks, course materials & teaching methods are changed & improved.**

Name of Instructor: **Prof. Ahmad Saad Al-Hazmi**

Signature: _____ Date Report Completed: **Oct. 2017**

Name of Field Experience Teaching Staff: **Prof. Ahmad Saad Al-Hazmi**

Program Coordinator: _____

Signature: _____ Date Received: _____