



King Saud University
College of Food and Agriculture Sciences
Department of Plant Production

Course Specifications

PPS 372 – Production of Ornamental Plants and Flowers

Prof. Fahed A. AL- Mana
Instructor

Course Specifications

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

A. Course Identification and General Information

1. Course title and code : Production of Ornamental Plants and Flowers, PPS 372		
2. Credit hours: 2 hours, Lecture (2hr.)		
3. Program(s) in which the course is offered. (If general elective available in many programs indicate this rather than list programs) Plant Production Program		
4. Name of faculty member responsible for the course Prof. Dr. Fahed AL- Mana		
5. Level/year at which this course is offered 6th level/ 3th year		
6. Pre-requisites for this course (if any) PPS 201 (Principles of Plant Production)		
7. Co-requisites for this course (if any) None		
8. Location if not on main campus Main Campus		
9. Mode of Instruction (mark all that apply)		
a. Traditional classroom	<input checked="" type="checkbox"/>	What percentage? 100%
b. Blended (traditional and online)	<input type="checkbox"/>	What percentage?
c. e-learning	<input type="checkbox"/>	What percentage?
d. Correspondence	<input type="checkbox"/>	What percentage?
f. Other	<input type="checkbox"/>	What percentage?
Comments:		

B Objectives

1. What is the main purpose for this course?

- Emphasize the importance and benefits of ornamental plants and flowers.
- Illustrate various species and uses of ornamental plants and flowers in Saudi Arabia.
- Expose students to cut flower species and different groups of ornamental plants, their production, culture, maintenance, and their landscape uses in Saudi Arabia.

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)

- Present lectures by the effective use of Smart Classrooms.
- Evaluation of students by quizzes and using different type of questions with feedback after each quiz.

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
The importance of ornamental plants and flowers – Various groups of ornamental plants. Tree definition, importance, characteristics and division.	1	2
Tree propagation, plantation and maintenance. General principles and conditions for selecting and plantation ornamental trees in gardens, parks and streets.	1	2

Various structural forms of trees, uses of trees in landscape. Important trees species grown under the environmental conditions of Saudi Arabia.	1	2
Ornamental palm trees - Palm tree characteristics, propagation and plantation. The importance of palms in landscape. Important palm tree species grown in Saudi Arabia. Palm-like trees.	1	2
Shrub definition, division, and purpose of use. Shrub propagation, plantation and maintenance.	1	2
General principles for selecting and plantation shrubs. Shrub uses in landscape. Important shrubs species grown under the environmental conditions of Saudi Arabia.	1	2
First Field Trip First mid-term exam.	1	2
Hedges, their definition and purposes of use. Types of hedges. Hedges propagation, plantation and maintenance. Cutting and forming. Principals for selecting and plantation hedges. Important hedge species grown in Saudi Arabia.	1	2
Climbers, their definition and purposes of use. Types of climbers. Climbers propagation, plantation and maintenance. Principles for selecting and plantation climbers. -Important climber species grown in Saudi Arabia.	1	2
Herbaceous flowering plants (annuals, biannual, perennials), their definition and importance, propagation, cultivation and maintenance, and landscape uses. Important herbaceous flowering species grown in Saudi Arabia.	1	2
Flowering bulbs, their definition and division, propagation, cultivation and maintenance, and landscape uses. Flowering bulb storage. Temperature effects on bulbs growth and flowering. Important flowering bulb species grown in Saudi Arabia.	1	2
Aromatic and medicinal plants- Cacti and succulent plants, aquatic and semi-aquatic plants, ground covers.	1	2

Study of the economical cut flower species produced and grown in Saudi Arabia.	1	2
Second Field Trip Second mid-term exam	1	2

2. Course components (total contact hours and credits per semester):

	Lecture	Tutorial	Laboratory	Practical	Other:	Total
Contact Hours	24	2 (Field Trips)	-	-	2 (Exam)	28
Credit	2	-	-	-	-	2

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

None

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

Every course is not required to include learning outcomes from each domain.

	NQF Learning Domains And Course Learning Outcomes	Course Teaching Strategies	Course Assessment Methods
1.0	Knowledge		
1.1	Outline production procedures and maintenance operations of ornamental plants and flowers.	Lectures	Written exam
1.2	Recall the most suitable ornamental plants and flower species grown successfully in Saudi Arabia.	field trips	Reports
1.3	Name the new methods used for the production of ornamental plants and flowers.	Lectures	Written exam

1.4	State the environmental, agricultural requirements, and the various landscape uses of ornamental plants and flowers	Lectures	Written exam
2.0	Cognitive Skills		
2.1	Judge among choices of ornamental plants suitable for specific sites.	Lectures	Written exams
2.2	Compose suitable combination of ornamental plants.	Field trips.	Report
2.3	Plan for seasonal plantations of ornamental plants.	Lectures	Written exam
3.0	Interpersonal Skills & Responsibility		
3.1	Evaluate existing maintenance methods of ornamental plant production.	Lectures.	Written exam
3.2	Demonstrate constructive skills in planning for production various forms of ornamental plants.	Discussions.	Reports
4.0	Communication, Information Technology, Numerical Skills		
4.1	Calculate density and/or space requirements of ornamental plants.	Lectures.	Written exam
4.2	Appraise information collected from electronic references, journals and data basis related to ornamental plant production.	Lectures.	Written exam
5.0	Psychomotor		
	N/A		

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 st midterm exam	Week 7	25%
2	Presentations and/or report papers	At the end	10%

3	2 nd midterm exam	Week 14	25%
4	Final Exam	Week 15	40%

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 week

E. Learning Resources

1. List Required Textbooks

None

2. Essential References

Abo Dahab, M. Abo Dahab. 1992. Production of Ornamental Plants. Dar Almareekh, Riyadh, Saudi Arabia (In Arabic).

Abo Zaid, El-Shahaat N. 2002. Plantation and Production of Flowers and Ornamental Plants. Arabian Dar for Press, Cairo, Egypt (In Arabic).

Al-Dejoy, Ali. 2004. Plantation and Production of Ornamental Plants and Landscape Gardening. Mudboli Library, Cairo, Egypt (In Arabic).

Bader, Mostaffa; Khatib, Mahmoud, and El-kiey Tariq. 1996. Flowers and Ornamental Plants, Design and Landscape Gardening. Munshaat Almaref, Alexandria, Egypt (In Arabic).

Larson, Roy A. 1980. Introduction to floriculture. Academic Press, Inc., New York, U.S.A.

3. List Recommended Textbooks and Reference Material (Journals, Reports, etc)

All other books and reference materials related to Production of Ornamental Plants and Flowers.

4. List Electronic Materials (eg. Web Sites, Social Media, Blackboard, etc.)

None

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.)

Lecture rooms and lab should accommodate 30 students

2. Computing resources (AV, data show, Smart Board, software, etc.)

AV and data show.

3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list)

None

G. Course Evaluation and Improvement Processes

1. Strategies for Obtaining Student Feedback on Effectiveness of Teaching

- Course teaching evaluation by the students through “Edugate” system of King Saud University website by the end of each semester.

2. Other Strategies for Evaluation of Teaching by the Program/Department Instructor

None

3 Processes for Improvement of Teaching

- Training sessions for instructors.
- Workshops to facilitate the exchange of experiences among faculty members.
- Regular colleagues meetings where problems are discussed and solutions given.

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 faculty members to discuss improvement.
- Have a curriculum review committee to review the curriculum periodically and suggest improvements

Faculty or Teaching Staff: _____

Signature: _____ **Date Report Completed:** _____

Received by: _____ **Dean/Department Head**

Signature: _____ **Date:** _____