**The University of Jordan**

**Faculty of Agriculture Department of Horticulture and Crop Science**

**Program: Master in Hort. and Crop Sc.  2017/2018/ Semester:**

**Course title: Advanced Floriculture (0601712)**

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| --- | --- | --- | --- | --- | --- |
| **Credit hours** | 3 | **Level** | Graduate | **Pre-requisite** |  |
| **Coordinator/ Lecturer** | Prof. Jamal Sawwan | **Office number** | Agr. 216 | **Office phone** | 22341 |
| **Course website** | [Faculty](http://blackboard.ju.edu.jo/webapps/login/) Member Website | **E-mail** | [jsawwan@ju.edu.jo](mailto:jsawwan@ju.edu.jo) | **Place** |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Office hours** | | | | | |
| **Day** | **Sunday** | **Monday** | **Tuesday** | **Wednesday** | **Thursday** |
| **Time** | 9-11 |  | 3-5 |  |  |

**Course Description**

This course deals with advanced topics in floriculture production including: morphology of bulbs, corms, rhizomes, tubers as well as other organs. Also, study of internal and external factors influencing flowering and relation with plant hormones as well as the use of plant bioregulators in production of floricultural plants. Discussions on the most recent research work in floriculture.

**Learning Objectives**

1. To expose students to the recent advancements in floriculture production.
2. To develop the technical know how on floriculture production.
3. To develop skills in programming, handling and post handling process in floricultural crops.

**Intended Learning Outcomes (ILOs):**

Successful completion of the course should lead to the following outcomes:

**A. Knowledge and Understanding:** Student is expected to

**A1-** To develop skills in programming, handling and post handling process.

**A2-** Develop the technical know how on floricultural production systems.

**A3**- Understand the environmental and biological interactions.

**A4-** Learn the scientific approaches of applying the most suitable culture practices for growing ornamental plans.

**B. Intellectual Analytical and Cognitive Skills:** Student is expected to

**B1**- Understand how manipulating the environmental factors affect the production process.

**B2**- Have the cognitive analytical skills of the proper culture practices that should be made before, during, and after planting the ornamental plants.

**C. Subject- Specific Skills:** Students is expected to

**C1**- Apply and analyze methods of cultural practices and production of ornamental plants.

**C2**- Explain the underlying the environmental and biological factors that lead to decrease or increase the quality and the quantity of ornamental plants. This will be applied for each studied plant so get more practices and experiences.

**C3**- Expose to the major problems the associated with production and maintenance programs.

**D. Transferable Key Skills:** Students is expected to

**D1**- Gain the abilities to analyze and solve problems facing the production process.

# ILOs: Learning and Evaluation Methods

|  |  |  |
| --- | --- | --- |
| **ILO/s** | **Learning Methods** | **Evaluation Methods** |
| **A**. Knowledge and understanding (**A1-A4**) | Lectures and Discussions | Exam |
| **B**. Intellectual Analytical and Cognitive Skills (**B1-B2**) | Lectures and Discussions | Exam |
| **C**. Subject Specific Skills (**C1-C3**) | Discussions | Exam  Quiz  Evaluation |
| **D**. Transferable Key Skills (**D1**) | Discussions | Quiz  Project evaluation |

**Course Contents**

|  |  |  |  |
| --- | --- | --- | --- |
| **Lectures week** | **Subject** | **Sources** | **ILOs** |
| (1stwk) |  |  |  |
| (2nd wk) | Introduction | -Green house management  -Journal articles |  |
| (3rd wk) | Environmental plant requirement | -Green house management  -Journal articles |  |
| (4th wk) | Temperature | -Green house management  -Journal articles |  |
| (5thwk) | Light | -Green house management  -Journal articles |  |
| (6th wk) | Light | -Green house management  -Journal articles |  |
| (7thwk) | CO2 | -Green house management  -Journal articles |  |
| (8th wk) | Mineral nutrients | -Green house management  -Journal articles |  |
| (8th wk) | Water | -Green house management  -Journal articles |  |
| (9th wk) | Water | -Green house management  -Journal articles |  |
| (10th wk) | Humidity | -Green house management  -Journal articles |  |
| (11th wk) | Containers | -Green house management  -Journal articles |  |
| (12th wk) | Media | -Green house management  -Journal articles |  |
| (12th and 13th wk) | Plant growth regulators | -Green house management  -Journal articles |  |
| (13th wk) | Plant growth regulators | -Green house management  -Journal articles |  |
| (14th wk) | Cultural practices | -Green house management  -Journal articles |  |
| (15th wk) | Post harvest physiology | -Green house management  -Journal articles |  |
| (16th wk) | Final exam |  |  |

**Learning Methodology**

The main learning methods that should be used in this course will be structured in lectures, discussions, presentations and reports. The course comprises overviews, from general understanding to expert knowledge on key topics, and learning is based mainly on lectures as well as presentations.

**Evaluation**

|  |  |  |
| --- | --- | --- |
| **Evaluation** | **Point %** | **Date** |
| Midterm Exam | 30% | To be scheduled |
| Presentations and Discussions | 30% | To be scheduled |
| Final Exam | 40% | To be scheduled |

**Main Reference/s:**

1. Green house management.
2. Journal articles.

**Intended Grading Scale (Optional)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **From (%)** | **To (%)** | **Scale** | **Mark** | **Result** |
| 0 | 44 | 0 | H | Fail |
| 45 | 47 | 0.75 | D- | Fail |
| 48 | 54 | 1 | D | Accepted |
| 55 | 60 | 1.5 | D+ | Accepted |
| 61 | 63 | 1.75 | C- | Good |
| 64 | 66 | 2 | C | Good |
| 67 | 72 | 2.5 | C+ | Good |
| 73 | 75 | 2.75 | B- | Very Good |
| 76 | 78 | 3 | B | Very Good |
| 79 | 84 | 3.5 | B+ | Very Good |
| 85 | 87 | 3.75 | A¯ | Excellent |
| 88 | 100 | 4 | A | Excellent |

**Notes:**

* Concerns or complaints should be expressed in the first instance to the module lecturer; if no resolution is forthcoming, then the issue should be brought to the attention of the module coordinator (for multiple sections) who will take the concerns to the module representative meeting. Thereafter, problems are dealt with by the Department Chair and if still unresolved the Dean and then ultimately the Vice President. For final complaints, there will be a committee to review grading the final exam.

**General rules:**

* Never come late to the classroom, you will disturb your mates and your instructor.
* Turn OFF your cell phones during the class.
* Be prepared for discussions as this will be counted towards your grade.