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**Department of Horticulture**

**College of Agricultural Engineering Sciences**

**Salahaddin University-Erbil**

**Subject: Ornamental Plants Technician (Theory)**

**Horticulture Department**

**Course Book (Year 3) Spring sem.**

**Academic Year: 2022/2023**

**Mrs Sabiha Salahaddin Mustafa BSc, MSc**

**Course Book**

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| **1. Course name** | Ornamental Plants Technician |
| **2. Lecturer in charge** | Sabiha Salahaddin Mustafa |
| **3. Department/ College** | Horticulture/Agriculture |
| **4. Contact** | e-mail: sabiha.mustafa@su.edu.krd |
| **5. Time (in hours) per week**  | Theory: 2 |
| **6. Office hours** | Wednesday at Horticulture Department |
| **7. Course code** |  |
| **8. Teacher's academic profile**  | For further information visit: |
| **9. Keywords** | Ornamental trees, shrubs, climbers, Rose, History Of Roses, General Classification, Favorite Rose Types,Cut flowers, Lawns, Cacti and succulent plants, Aquatic and semi aquatic . |
| **10. Course overview:**The course includes the principles on Division of Ornamental: trees, shrubs, climbers, Rose, History Of Roses, General Classification, Favorite Rose Types,Cacti and succulent plants,  Aquatic and semi aquatic Uses of these Plants in the garden , Cut flowers arrangements in  the vases .**The importance of the course:**Students should have enough information on basics of ornamental plants , and how design the gardens by these plants and design cut flowers in the vases at home .  |
| **11. Course objective:*** To study definitions of ornamental plants (trees, shrubs, climbers, cacti and succulents and lawns ).
* To study proper environmental conditions these plants need.
* The students should learn how to prune trees and shrubs such as Rose .
* Also learning about economical plants which are used as commercial plants .
* Studying arranging cutting flowers in the vases and taking care of them.
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| **12. Student's obligation*** All students are required to take notes or/and writing up lectures throughout the course as the instructor.
* After starting the course, the exam will be taken after four lectures.
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| **13. Forms of teaching**Different forms of teaching conducted to gain the objectives of the course, such as:1. Using white board to clarify any related subject.
2. PowerPoint presentation including images.
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| **14. Assessment scheme**Written exam: 10/15Quizzes, presentations, behaviour, activity within lectures: 5/15 marksFinal exam : 50 marks |
| **15. Student learning outcome:**The students will: 1. Become familiar with ornamental plants .
2. They interested and enjoyed in this term .
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| **16. Course Reading List and References‌:****Arabic reference****المصادر العربية:*** موسوعة زراعة وإنتاج نباتات الزينة وتنسيق الحدائق والزهور. الدكتور علي الدجوي – الطبعة الأولى 2004 – الناشر (مكتبة مدبولي)
* موسوعة النباتات المنزلية المصوٌرة. ريشار جلبير – ترجمة – شيرين وأحمد الخطيب – طبعة ثانية 1994 – مكتبة لبنان ناشرون
* الزينة. الدكتور سالم محمد السلطان وآخرون - وزارة التعليم العالي والبحث العلمي – جامعة الموصل 1992
* نباتات الزينة. الدكتور أحمد محمد موسى طواجن – وزارة التعليم العالي والبحث العلمي – جامعة البصرة 1987
* الزهور والنباتات الزينة وتنسيق الحدائق. د.محمد يسري الغيطاني – الطبعة الثالثة 1984
* مذكرات في عملي. الزهور ونباتات الزينة. د.مصطفى بدر وأخرون – الطبعة الثانية 1978
* الحدائق. صادق عبدالغني البعلي – مطبعة الإدارة المحلية 1976
* مواقع مختلفة من الأنترنيت.

 **English reference** 1. The flower expert – Dr. D.G. Hessayan – 2001.
2. The New Illustrated Encyclopedia of Gardening (unabridged) – Edited by: T.H. Everett – 1978.
3. The A-Z of House Plants – Hamlyn – 1977.
4. The Dictionary of Garden Plants in colour with House and Greenhouse Plants – Roy Hay & Patrick M.Synge 1973 UK.
5. Annuals and Perennials . Random House Australia 2006 .Dr. Gelinde von Berg. China.
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| **17. The Topics:** | **Lecturer's name** |
| **Week 1** Rose History Of Roses  General ClassificationPicking The Right Spot Rose Planting timeHow to Take Care of RosesFeedingPruning**Week 2**Types of PruningRose PropagationUses of RoseProblems**Week 3**Trees, Shrubs and Climbers definitions Some facts about Trees and ShrubsHow the trees are grownWhen to Feed Trees and ShrubsChoosing a Type of FoodWhen to prune treesChoosing and planting shrubsRoutine shrub maintenanceTrees examples**Week 4**Choosing a climber or wall shrubEvergreen Climbing Plants that cling to walls with aerial roots1 : Hedera canariensis 'Variegata' **2**-Hedera colchica 'Dentata Variegata' **3** : Hedera helix 'Green Ripple' 4 : PASSIFLORA 'Amethyst' Shaded Wall or Fence Shrubs1 : Cotoneasters2 : JasmineClimbers for Sunny PositionsClimbing Plants That Produce Fragrant Flowers**Week 5**Aquatic and semi Aquatic**Week 6**Cut flowers**Week 7**Hedge plants**Week 8**Lawns**Week 9****Summer Bulbs**  |
| **18. Practical Topics (If there is any)** |  |
| In this section The lecturer shall write titles of all practical topics he/she is going to give during the term. This also includes a brief description of the objectives of each topic, date and time of the lecture  | Lecturer's nameex: (3-hrs) |
| **19. Examinations and Style of Questions** For example: 1/ Enumerate and explain the climbers which are planted in sunny positions .2/ Explain three of the following.3/ Define the following.4/ Enumerate and explain .5/ Fill in the blanks 6/ Give the reasons of the following :***1. Compositional:*** In this type of exam the questions usually starts with Explain how, What are the reasons for…?, Why…?, How….?With their typical answersExamples should be provided***2.******True or false type of exams:***In this type of exam a short sentence about a specific subject will be provided, and then students will comment on the trueness or falseness of this particular sentence. Examples should be provided***3. Multiple choices:***In this type of exam there will be a number of phrases next or below a statement, students will match the correct phrase. Examples should be provided. |
| **20. Peer review**  |

**Subject: Ornamental Plants Technician (Practical)**

**Horticulture Department**

**Course Book (Year 3)Spring sem.**

**Academic Year: 2022/2023**

**M. Bayan Zeki**

**M. Pirrot Jawdat**

**Supervisor**

**Mrs Sabiha Salahaddin Mustafa BSc, MSc**

**Course Book**

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| **1. Course name** | Ornamental Plants Technician  |
| **2. Lecturer in charge** | Bayan Zeki,Pirrot Jawdat |
| **3. Department/ College** | Horticulture/Agriculture |
| **4. Contact** | e-mail: sabiha.mustafa@su.edu.krd |
| **5. Time (in hours) per week**  | Practical: 3 |
| **6. Office hours** | Tuesday at Horticulture Department |
| **7. Course code** |  |
| **8. Teacher's academic profile**  | For further information visit: |
| **9. Keywords** | Garden calendar for Ornamental Plants, Winter annuals, Biennials, Perennials, Bulbs, Sowing seeds, Visit to Parks and nurseries , Cut flowers. |
| **10. Course overview:**The course includes the principles on Division of Ornamental: Winter Annuals, Perennials, Bulbs, and morphological characteristics and their propagation the important works in the garden, and planting position in the garden. **The importance of the course:**Students should have enough information on basics of ornamental plants , and how design the gardens by these plants , and cut flower arrangements in the vases .  |
| **11. Course objective:*** To study types of ornamental plants (Winter annuals, perennials, and bulbs ). height and size of flowers.
* How to take care of garden plants and arranging them in the garden.
* Training students on preparing land or pots and how to sow seeds and how to plant seedlings of ornamentals and bulbs .
* The students should learn how to prune trees and shrubs such as Rose , how to make cuttings and plant them as a method of propagation .
* Also the students learns how choose appropriate plant to plant it in the right place and arrange them in the garden .
* Studying arranging cutting flowers in the vases and taking care of them.
* We also aim to hold periodical visits to nurseries and parks to gain practical experiences .

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| **12. Student's obligation*** All students are required to take notes or/and writing up lectures throughout the course as the instructor.
* After starting the course, the exam will be taken after four lectures.
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| **13. Forms of teaching**Different forms of teaching conducted to gain the objectives of the course, such as:1. Using white board to clarify any related subject.
2. PowerPoint presentation including images.
 |
| **14. Assessment scheme**Written exam: 25/35 marks Quizzes, presentations, behaviour, activity within lectures: 10/35 marksFinal exam : There is no exam. |
| **15. Student learning outcome:**The students will: 1. Become familiar with ornamental plants .
2. They interested and enjoyed in this term .
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| **16. Course Reading List and References‌:****Arabic reference****المصادر العربية:*** موسوعة زراعة وإنتاج نباتات الزينة وتنسيق الحدائق والزهور. الدكتور علي الدجوي – الطبعة الأولى 2004 – الناشر (مكتبة مدبولي)
* موسوعة النباتات المنزلية المصوٌرة. ريشار جلبير – ترجمة – شيرين وأحمد الخطيب – طبعة ثانية 1994 – مكتبة لبنان ناشرون
* الزينة. الدكتور سالم محمد السلطان وآخرون - وزارة التعليم العالي والبحث العلمي – جامعة الموصل 1992
* نباتات الزينة. الدكتور أحمد محمد موسى طواجن – وزارة التعليم العالي والبحث العلمي – جامعة البصرة 1987
* الزهور والنباتات الزينة وتنسيق الحدائق. د.محمد يسري الغيطاني – الطبعة الثالثة 1984
* مذكرات في عملي. الزهور ونباتات الزينة. د.مصطفى بدر وأخرون – الطبعة الثانية 1978
* الحدائق. صادق عبدالغني البعلي – مطبعة الإدارة المحلية 1976
* مواقع مختلفة من الأنترنيت.

 **English reference** 1. The flower expert – Dr. D.G. Hessayan – 2001.
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4. The Dictionary of Garden Plants in colour with House and Greenhouse Plants – Roy Hay & Patrick M.Synge 1973 UK.
5. Annuals and Perennials . Random House Australia 2006 .Dr. Gelinde von Berg. China.
 |
| **17. The Topics:** | **Lecturer's name** |
| In this section the lecturer shall write titles of all topics he/she is going to give during the term. This also includes a brief description of the objectives of each topic, date and time of the lecture Each term should include not less than 16 weeks  | Lecturer's name |
| **18. Practical Topics (If there is any)** |  |
| **Week 1:**Important works in the garden in : \* January\* FebruaryPropagation types (Practically) of :Chrysanthemum sppDianthus caryophyllus **Week 2:**Rosa spp.Pruning and Propagation of Rose in the grdarash. Antirrhinum majus**Week 3 :**Studing some Annuals and Perennials :- Calendula officinalis (Pot marigold)- Callistephus chinensis (China Aster)- Primula spp. (Primula)- Viola tricolor (Pansy) -Viola odorata (Sweet Violet)**Week 4 :**Sowing some seeds of summer annual plants .Sowing some summer bulbs.Propagation of some house plants**Week 5 :**Training on Rose Budding in grdarash .**Week 6 :**- Mathiola incana (Stock) - Delphinium ajacis (Lark spure)- Helichrysum bracteatum (Straw flower)-Limonium sinuatum ( Static)-Linum grandiflorum (Scarlet)**Week 7 :**Visiting to Parks.**Week 8 :**-Chrysanthemum coronarium (French marguerite)-Centaurea cyanus (Corn flower)-Cineraria cruentus (Cineraria)- Phlox drummondii (Annual phlox)-Oxalis floribunda (Oxalis)-Alyssum maritimum (Sweet alyssum)**Week 9 :**Cutting flowers.**Week 10 :**- Bellis perennis (English Daisy)- Alcea rosea (Holyhock )- Dianthus chinensis (Indian pink ) - Pelargonium spp. (Geranium)**Week 11 :**Flowering Bulbs :Gladiolus hybrid (Sword lily)Iris spp. (Iris)Hyacinthus orientalis ( Dutch Hyacinth)Dahlia hybrida ( Dahlia)Amaryllis belladonna ( Belladona lily)Canna indica (Canna )**Week 12 :**Visiting Nurseries . | Sabiha Salahaddin Mustafa  |
| **19. Examinations and Style of Questions** The exam is Move . For example: 1/ Describe the leaves of this plant , then mention the flowering period of it .2/Can we use this flower for cut, then mention the English name of it .3/ Mention the Scientific name of this sample and the Family which belongs to .4/ Explain the position of this plant , and mention the Scientific name of it .5/ Mention the English name , and propagation of this plant .6/ Mention the Scientific name , and flowering period of this plant .***1. Compositional:*** In this type of exam the questions usually starts with Explain how, What are the reasons for…?, Why…?, How….?With their typical answersExamples should be provided***2.******True or false type of exams:***In this type of exam a short sentence about a specific subject will be provided, and then students will comment on the trueness or falseness of this particular sentence. Examples should be provided***3. Multiple choices:***In this type of exam there will be a number of phrases next or below a statement, students will match the correct phrase. Examples should be provided. |
| **20. Peer review**  |