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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](mailto: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. | | |
| **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. | | |
| **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: 10/15  Quizzes, presentations, behaviour, activity within lectures: 5/15 marks  Final exam : 50 marks | | |
| **15. Student learning outcome:**  The students will:   1. Become familiar with ornamental plants . 2. They interested and enjoyed in this term . | | |
| **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. | | |
| **17. The Topics:** | | **Lecturer's name** |
| **Week 1**  Rose  History Of Roses  General Classification  Picking The Right Spot  Rose Planting time  How to Take Care of Roses  Feeding  Pruning  **Week 2**  Types of Pruning  Rose Propagation  Uses of Rose  Problems  **Week 3**  Trees, Shrubs and Climbers definitions  Some facts about Trees and Shrubs  How the trees are grown  When to Feed Trees and Shrubs  Choosing a Type of Food  When to prune trees  Choosing and planting shrubs  Routine shrub maintenance  Trees examples  **Week 4**  Choosing a climber or wall shrub  Evergreen Climbing Plants that cling to walls with aerial roots  1 : Hedera canariensis 'Variegata'  **2**-Hedera colchica 'Dentata Variegata'  **3** : Hedera helix 'Green Ripple'  4 : PASSIFLORA 'Amethyst'  Shaded Wall or Fence Shrubs  1 : Cotoneasters  2 : Jasmine  Climbers for Sunny Positions  Climbing 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 name  ex: (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 answers  Examples 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](mailto: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 . | | |
| **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. | | |
| **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 marks  Final 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 . | | |
| **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. | | |
| **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  \* February  Propagation types (Practically) of :  Chrysanthemum spp  Dianthus 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 answers  Examples 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** | | |