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**Department of Horticulture**

**College of Agricultural Engineering Sciences**

**Salahaddin University-Erbil**

**Subject: Fundamental Ornamental Plant (Theory)**

**Horticulture Department**

**Course Book (Year 3)1rst sem.**

**Academic Year: 2022/2023**

**Mrs Sabiha Salahaddin Mustafa BSc, MSc**

**Course Book**

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| **1. Course name** | Fundamental Ornamental Plants | |
| **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** | Sunday and Tuesday at Horticulture Department | |
| **7. Course code** |  | |
| **8. Teacher's academic profile** | For further information visit: | |
| **9. Keywords** | Ornamental Plants, Division of Ornamentals, History, Uses : Annuals, Biennials, Perennials, Bulbs, Environmental Factors, Commercial flowers,Type of bulbs . | |
| 10. Course overview:  The course includes the principles on Division of Ornamental: Annuals, Biennials, Perennials, Bulbs, Uses of Ornamental Plants , Environmental Factors That Affect Plant Growth, The importance  of studying herbaceous flowering plants, Commercial Greenhouse Production, Types of storage structures of bulbs .  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 (annuals, Biennials , perennials, and bulbs ). * To study proper environmental conditions these plants need. * Also learning about economical plants which are used as commercial plants . | | |
| **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:**  Definition of Ornamental Plants  History of Ornamental Plants  Uses of Ornamental Plants  **Week 2:**  Environmental Factors That Affect Plant Growth  Fertilizing Foliage & Flowering Plants  **Week 3:**  The importance of studying herbaceous flowering plants  **Week 4:**  Commercial Greenhouse Production  Chrysanthemums  History  Varieties of Chrysanthemum  **Week 5:**  How to Force Mums to Bloom  **Week 6:**  Carnation  **Week 7 :**  Sweet Peas  **Week 8 :**  Bulbs  Types of storage structures  Narcissus  **Week 9 :**  Aquatic and Semi - Aquatic  **Week 10 :**  House plants  **Week 11 :**  Ground Cover plants | |
| **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: (3-4 hrs) |
| **19. Examinations and Style of Questions**  For example:  1/ Write the technological production stages of the commercial plants .  2/ Explain three of the following.  3/ Define the following.  4/ Enumerate and explain .  5/ Fill in 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: Fundamental Ornamental Plants (Practical)**

**Horticulture Department**

**Course Book (Year 3)1rst sem.**

**Academic Year: 2022/2023**

**M.Bayan zeki**

**Supervisor**

**Mrs Sabiha Salahaddin Mustafa BSc, MSc**

**Course Book**

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| **1. Course name** | Fundamental Ornamental Plants | |
| **2. Lecturer in charge** | Bayan Zeki | |
| **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** | Sunday and Tuesday at Horticulture Department | |
| **7. Course code** |  | |
| **8. Teacher's academic profile** | For further information visit: | |
| **9. Keywords** | Ornamental Plants, Division of Ornamental: Summer Annuals, Biennials, Perennials, Bulbs, Sowing seeds and Bulbs, Visit to Parks and nurseries, House plants . | |
| **10. Course overview:**  The course includes the principles on Division of Ornamental: Summer Annuals, Biennials, Perennials, Bulbs, house plants and morphological characteristics and their propagation 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 . | | |
| **11. Course objective:**   * To study types of ornamental plants (annuals, Biennials , 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 about house plants and their uses. How to arrange them in houses, restaurants, and hotels . * 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  ex: (3 hrs) |
| **18. Practical Topics (If there is any)** | |  |

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| Week 1:  Ornamental Plants  Floriculture Science  The Division of Ornamental plants :  Annual plants :  a / Summer Annual  b/ Winter Annual  Annuals of Agricultural Operation :  Utility Processes  ِAmaranthus  Cosmos  Celosia cristata  Zinnia elegans  Impatiens balsamina  **Week 2:**  Training about :  Sowing seeds and Bulbs of some Ornamental Plants in Grdarash  **Week 3:**  Kochia trycophylla  Sunflower  Helianthus annuus  Helianthus decapetalus  Tagetes erecta  Tagetes patula  Mirabilis  Portulaca  **Week 4:**  Gaillardia pulchella  Gaillardia aristata  Gazania splendens  Rudbeckia fulgida  Euphorbia heterophylla  Salvia splendens  Week 5:  Vinca rosa  Gerbera jamesonii  Verbena  Verbena venosa  Verbena hortensis  Dianthus barbatus  **Week 6:**  Visit to Parks .    **Week 7 :**  House plants :  Ficus elastica var. decora  Ficus elastica variegate  Ficus lyrata  Ficus bengamina  Ficus religiosa  Monstera deliciosa  Dieffenbachia amoene  SanseviriaSpp.  **Week 8 :**  Nephrolepis exaltata  Beloperone guttata  Dracaena Dragon tree  Dracaena fragrans  Dracaena deremensis  Dracaena godseffiana  Dracaena margina  **Week 9 :**  Aphelandra squarrosa  Chlorophytum spp.  variegatum elatum Chlorophytu  Coleus blumei hybrid  Codiaeum variegatum  **Week 10:**  Araucaria excels  Asparagus sprengeri  Asparagus plumosus  Asparagus myers  **Week 11 :**  Gynura aurantiac  Cyperus papyrus  Strobilanthes dyerianus  Euphorbia pulcherrim  **Week 12 :**  Philodendron domesticum  Peperomia Spp.  Hoya carnosa | Lecturer's name |
| **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** | |