Course title	**Nursery and Floriculture Production and Management**				
Course code	**GALA3601**				
Course type	**Lectures and Practical application**				
Level	Higher Diploma				
Year / Semester	3rd Year / 6th Semester				
Teacher's name	Christina Christodoulou				
ECTS	6	**Lectures / week**	2	**Laboratories / week**	1
Course purpose and objectives	The purpose of the course is to introduce the students to the practices and techniques of managing a nursery-florist shop and to train them in the full range of nursery-florist operations, from basic cultivation to maintenance and marketing.				
Learning outcomes	Upon completion of the course, students are expected to: **Theoretical Learning Outcomes** 1. **Recognise** the tasks performed in a commercial nursery-florist shop, including the types of nurseries-florist shops, production phases, and methods used for cultivating, protecting, and improving plant production in the nursery, as well as their maintenance in the florist shop. 2. **Identify** plant diseases, pests, and other threats, and understand the methods for preventing and addressing these problems. 3. **Summarise** the basic principles of business management required for the operation and financial success of a nursery-florist shop. 4. **Manage** materials and resources, such as substrates, fertilisation, watering, and waste management. **Practical Learning Outcomes** 5. **Apply** appropriate cultivation techniques to produce high-quality plants, including sowing, transplanting, and maintaining nursery-florist shops. 6. **Select, arrange, and maintain** floral arrangements and other plants. 7. **Solve** problems related to the production and management of nurseries.				
Prerequisites		**Required**			
Course content	**Week 1: Introduction - Lecture** • Nursery-florist location selection • Organization & development of nursery-florist space • Storage areas in nursery-florist shops: Equipment and infrastructure • Legislation, Regulations & Codes **Week 2: Applied Nursery-Floral Management - Lecture** • Financial management • Wholesale plant trade • Nursery content management				

- Plant/flower management and maintenance in the florist shop

Week 3: Lecture

- Inventory management of plants and flowers
- Sourcing and collaboration with suppliers
- Maintaining flower freshness and quality
- Basic principles of floral arrangement design
- Techniques and styles of floral arrangement composition
- Choosing flowers and plants for different occasions
- Decoration and presentation of floral arrangements

Week 4:Practical: Nursery Operations

- Demonstration of basic equipment and infrastructure for nursery-florist shops
- Practical techniques for maintaining flower freshness
- Hands-on floral arrangement creation
- Decorating floral arrangements with various materials and accessories
- Presentation and evaluation of participants' creations

Week 5: Workshop 1-Practical

- Plant production and propagation
- Cuttings and layering
- Grafting of vegetable seedlings
- Grafting for scion collection

Week 6: Nursery Operations-Practical

- Cultivation of vegetables in greenhouses

Week 7: Practical Nursery Operations

- Integrated pest management

Week 8: Workshop 3-Practical

- Vegetable grafting
- Cleft grafting

Week 9: Nursery Operations-Practical

- Weed control

Week 10: Workshop 4 -Practical

- Approach grafting

Week 11-12: Greenhouse Cultivation

- Advantages
- Modified conditions
- Various plant growth techniques – hydroponics, aeroponics, NFT

- Advantages and disadvantages compared to conventional cultivation

Course Breakdown

Week	Teaching Content	Teaching Process
Week 1	Location selection, organisation of nursery-florist spaces, equipment/infrastructure, legislation and codes.	Theory (Lecture)
Week 2	Applied nursery-floral management: financial planning, wholesale plant trade, nursery stock handling, in-shop plant/flower maintenance.	| Theory (Lecture)
Week 3	Floral inventory & design: supplier sourcing, freshness techniques, floral arrangement design, plant selection and decoration for occasions.	Theory (Lecture)
Week 4	Practical: Equipment demonstration, flower freshness maintenance, floral arrangement creation and decoration, presentation of floral designs.	Practical (Hands-On)
Week 5	Propagation techniques – cuttings, layering, grafting vegetable seedlings and scion collection.	Practical (Workshop)
Week 6	Nursery operations: Greenhouse cultivation of vegetables.	| Practical (Field)
Week 7	Nursery operations: Integrated pest management techniques.	Practical (Field)
Week 8	Vegetable propagation via cleft grafting.	Practical (Workshop)
Week 9	Nursery operations: Weed control methods in nursery and greenhouse settings.	Practical (Field)
Week 10	Approach grafting methods and practice.	Practical (Workshop)
Weeks 11–12	Greenhouse cultivation: hydroponics, aeroponics, NFT systems; comparative benefits vs. conventional techniques.	Theory (Lecture)

Teaching methodology

Theoretical Instruction
The theoretical component of the course is delivered through lectures that provide students with foundational knowledge in nursery and florist shop operations. Topics include site planning, legal regulations, financial and inventory management, wholesale trade, and principles of floral design. The instruction encourages analytical thinking and decision-making relevant to managing commercial nursery-florist environments, supported by real-world case examples and classroom discussions.

Practical Instruction
The practical component is conducted through structured hands-on sessions and workshops that simulate real-life nursery and florist shop tasks. Students engage in activities such as flower arrangement creation, propagation techniques (cuttings, layering, grafting), greenhouse cultivation, pest and weed management, and modern planting systems like hydroponics. Emphasis is placed on skill development, proper tool usage, and

	the practical application of techniques in controlled and field environments, fostering technical proficiency and professional readiness.
Bibliography	**Greek Bibliography** • Stanghellini,Cecilia, Ooster,Bert van't & Heuvelink,Ep. (2019). Θερμοκήπια : Τεχνολογίες για Βέλτιστη Παραγωγή. Πεδίο. ISBN: 978-960-635-089-4 • Συλλογικό έργο (2017). Φυτά Μεγάλης Καλλιέργειας. Διόφαντος. ISBN: 978-960-06-4881-2 • Καραμπουρνιώτης, Γ., Σάββας, Δ. (2021). Παράγοντες καταπόνησης των φυτών στο θερμοκήπιο. [Postgraduate textbook]. Kallipos, Open Academic Editions. https://dx.doi.org/10.57713/kallipos-12 • Δάρρας, Α. (2022). Γενική Ανθοκομία. [Undergraduate textbook]. Kallipos, Open Academic Editions. https://dx.doi.org/10.57713/kallipos-3 **English Bibliography** • Mason, John (2004). Nursery Management. Reid, Grant W. (2002). Ed.: 2nd ed. Collingwood, Vic : CSIRO Publishing. Landscape graphics: ISBN: 9780643090248. **EBSCOHost**. • Sachin Tyagi (2021). Crop Improvement,Nursery and Rootstock Management: Vol.01 Hitech Horticulture. New Delhi : NIPA. ISBN: 9789387973404. **EBSCOHost**.
Assessment	• Attendance and course participation: 10% • Practical assignments 30% • Group Assignment 20% • Final written examination 40%
	Student performance in the course is evaluated through a combination of theoretical and practical assessment methods. Students are assessed on their participation and performance in hands-on activities and workshops, including tasks such as plant propagation, floral arrangement, greenhouse operations, and pest management. These practical assignments, which account for the 30% of the overall grade, evaluate technical skills, accuracy, and the ability to apply practical knowledge in real-world nursery and florist settings. A comprehensive exam assesses students' theoretical understanding of nursery and florist shop management, plant care, floral design, and greenhouse operations is occurred during the final written examination, which accounts for the 40% of the overall course grade. The examination includes a mix of multiple-choice, short answer, and analytical questions based on the lecture content. The duration of the final written examination is to academic periods. Group assignment assesses the students on a formative level and is meant to encourage critical thinking collaboration and reflection upon the course's theoretical components. Student performance is evaluated on a scale of 0 to 100, with a minimum overall passing grade of 60. The final grade is calculated as a weighted average of the assessment components disclosed above.
Language	Greek or English