Course title	**2D Computer Aided Landscaping Design**				
Course code	**GALA2402**				
Course type	**Lectures and practical application**				
Level	Higher Diploma				
Year / Semester	2nd Year / 4th Semester				
Teacher's name	Demetris Tsimouris				
ECTS	6	**Lectures / week**		**Laboratories / week**	3
Course purpose and objectives	The course focuses on the study, understanding, and creation of landscape designs, including projection and perspective drawings, site plans, irrigation plans, and typometric maps. Emphasis is placed on two-dimensional design, with the AutoCAD software programs being the primary tools utilised.				
Learning outcomes	Upon completion of the course, students are expected to: **Knowledge:** 1. **Identify** the fundamental principles of two-dimensional modelling and how they are applied in the field of landscape design. 2. **Recognise** various tools and functions of the software used for 2D landscape modeling. **Skills:** 3. **Use** the AutoCAD design programme to prepare various types of drawings necessary for garden design. 4. **Create**, **edit**, and **print** appropriate two-dimensional drawings such as digitised topographical plans, construction drawings, and other related designs using AutoCAD. **Competences:** 5. **Interpret** topographical data to create accurate landscape plans. 6. **Solve** problems that arise during the process of two-dimensional modeling.				
Prerequisites	**Introduction to Computer Aided Design (COMP203)**	**Required**			
Course content	**Week 1 (Practical):** • Review of AutoCAD • Drafting Notes/Title Blocks in Drawings **Week 2 (Practical):** • Topographical Drawings from Coordinates				

	• Topographical Drawings from Floor Plans **Week 3 (Practical):** • Importing Images into AutoCAD (Attach) • Setting Scale (Scale) **Week 4 (Practical):** • Construction Drawings and Details • Tree Planting in Sidewalks • Floor Plan Drawing **Week 5 (Practical):** • Landscape Design Drawings **Week 6 (Practical):** • General Plan **Week 7-8 (Practical):** • Design Sections **Week 9-10 (Practical):** • Planting Plan **Week 11-12 (Practical):** • Irrigation Plan
Teaching methodology	Teaching is based on active participation, using pedagogical methodologies that promote interaction and the application of knowledge, skills, and competencies acquired by the students, particularly during the practical component of the course. The final practical exercise involves using AutoCAD software, where the students are required to prepare a design proposal for a small residential garden following given guidelines. Students will prepare and submit a general plan, a planting plan, and section/elevation drawings. This exercise will be utilised in the 5th semester course on Photorealistic Digital Landscape Design.
Bibliography	**Greek Bibliography** • Κάππος, Γιάννης Θ. (2017), Δουλέψτε Με Autocad 2017, Κλειδάριθμος, ISBN978-960-461-730-2 • Σαραφίδης, Δ. (2023). Σχεδίαση με ηλεκτρονικό υπολογιστή και συστήματα CAD. [Undergraduate textbook]. Kallipos, Open Academic Editions. https://dx.doi.org/10.57713/kallipos-98 **English Bibliography** • Hamad, Munir (2021). AutoCAD 2022 Beginning and Intermediate. Dullas, Virginia : Mercury Learning and Information. 2021. ISBN: 9781683927242. **EBSCOHost**
Assessment	• Attendance and course participation: 10% • Practical exercises 40% • Final Practical Examination: 50%
	The final practical examination will require students to produce a comprehensive landscape project drawing, integrating topographical mapping, construction details, general planning, planting design, irrigation layout, and sectional views. Students will demonstrate their technical drafting skills, attention to scale and detail, and ability to synthesise all design elements into a cohesive professional plan. The duration of the final practical examination is three academic periods and accounts for the 50% of the final grade. Student assessment also includes practical exercises that are meant to assess the students on formative level in regards to the delivery of activities that are carried out during class time. The practical exercises made up the 40% of the overall course grade. 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