Course title	**Photorealistic Digital Landscape Design**				
Course code	**GALA3503**				
Course type	**Practical application**				
Level	Higher Diploma				
Year / Semester	3rd Year / 5th Semester				
Teacher's name	Andreas Meneas Anayiotos				
ECTS	6	**Lectures / week**		**Laboratories / week**	3
Course purpose and objectives	The aim of the course is to familiarise the students with various techniques for designing photorealistic floor plans and sections in landscape architecture studies and image processing (jpg). A key tool for the course is the design program Photoshop, which is widely used by designers to illustrate and present their ideas in a direct manner.				
Learning outcomes	Upon completion of the course, students are expected to: **Knowledge** 1. **Recognise** the principles and techniques used to achieve photorealistic results in digital landscape design. 2. **Identify** the basic and advanced image editing tools in Adobe Photoshop for professional landscape study presentations. **Skills** 3. **Utilise** colour combinations for professional presentations in two-dimensional designs. 4. **Design** gardens, open spaces, and diagrams in detailed photorealistic plans. 5. **Edit** and **create** final proposals in various file formats, such as jpg, pdf, and psd. **Competences** 6. **Combine** design techniques with creative approaches to achieve realistic and aesthetically appealing results.				
Prerequisites	**2D Computer Aided Landscaping Design (GALA2402)**	**Required**			
Course content	**Week 1 (Lecture + Practical):** • General Principles of Design and Photorealistic Rendering Software. • Adobe Suite Environment. • Presentation of garden design types (2D and 3D) using Photoshop. • Preparatory Exercise: Creation of Autocad files editable via Photoshop. **Week 2 (Practical):** • Basic Commands of the Program.				

	• Principles of Colour Design (Channels - RGB Composition - Blending). • Foreground and Background Colours, Palettes, and Toolkits. • Dimensions, Image Sizes, Eyedropper, and Brushes. • Laboratory Exercise 1. • Use of Guides and Path Drawing. **Week 3 (Practical):** • Colour Formatting of Garden Plans. • Importing and Formatting Images. • Laboratory Exercise 2. **Week 4 (Practical):** • Use of Effects in Editing and Layer Rendering. • Laboratory Exercise 3. **Week 5 (Practical):** • Use of Photoshop Software Tools. • Laboratory Exercise 4. **Week 6 (Practical):** • Composition and Photorealistic Image Editing. • Creation of PNG, PDF, JPG Files. • Laboratory Exercise 5. **Week 7-8 (Practical):** • Techniques of Photorealistic Rendering. • Shading and Photorealistic Effects. • Laboratory Exercise 6. **Week 9 (Practical):** • Elements, Materials, and Finishes in Landscape Design Drawings. • Scaling of Elements: Trees, Shrubs, and Other Components. • Laboratory Exercise 7. **Week 10 (Practical):** • Photorealistic Sections and Views in Landscape Design. • Individual Laboratory Work. **Week 11-12 (Practical):** • Preparation of Presentation Boards for Landscape Design Projects.
Teaching methodology	The practical component of the course is delivered through step-by-step, hands-on laboratory sessions that immerse students in the use of professional design software, primarily Adobe Photoshop. Students progressively develop skills in digital editing, colour formatting, photorealistic rendering, and the integration of design elements into 2D and 3D garden plans. Practical exercises focus on technical proficiency, creative application, and

	visual composition, culminating in the production of presentation boards that simulate real-world landscape design deliverables.
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 • Λαζαρίνης, Φ. (2015). Επεξεργασία ψηφιογραφικών εικόνων με τα εργαλεία Adobe Photoshop & Gimp. Στο Φ. Λαζαρίνης (2015). Πολυμέσα. [Undergraduate textbook]. Kallipos, Open Academic Editions. https://dx.doi.org/10.57713/kallipos-805 • Γιάννης Β. Σαμαράς (μετ.) (2012), Adobe Photoshop CS6, Γκιούρδας Μ., ISBN 978-960-512-646-9 **English Bibliography** • Hamad, Munir (2021). AutoCAD 2022 Beginning and Intermediate. Dullas, Virginia : Mercury Learning and Information. 2021. ISBN: 9781683927242. EBSCOHost • BITTU KUMAR (2015). Adobe Photoshop. [United States] : V&S Publishers. 2015. ISBN: 9789350570166. EBSCOHost.
Assessment	• Attendance and course participation: 10% • Drawing exercises 40% • Final drawing exercises: 50%
	The final practical exercise evaluates students' ability to apply advanced digital design techniques in a landscape architecture context, including effective use of Photoshop tools for photorealistic rendering of garden design plans, accurate integration of scale, materials, textures, and natural elements (e.g., trees, shrubs) in design compositions and more. The assessment focuses on both technical proficiency and the aesthetic quality of the final deliverables. The final practical examination accounts for the 50% of the overall course grade and its duration is three academic periods. 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