



Advanced 3D Photography for Industrial Applications

Course Duration: One semester

Course Scope: 24 hours

Learning Objectives

1. Understand the technological applications of Augmented Reality (AR) in general and of 3D photography in particular.
2. Recognize the uses of 3D photography within their field of study.
3. Apply principles of photo planning, spatial mapping, tagging, and editing.
4. Design, execute, and present a project tailored to the needs of an industrial partner.
5. Work effectively in a project team, including task allocation, collaboration, project management, and evaluation.

Course Content

Topic	Lesson No.
Explanation of the project, project requirements, and integration of 3D photography within the project	1
Introduction to 3D technology – What is Augmented Reality, comparison with Virtual Reality and Artificial Intelligence, and exploring their interconnections	2
Applications of 3D technology in the student's field of study. Assignment: Gather information and prepare a short TED-style presentation for the class on the use of Augmented Reality in the relevant professional domain	3
Continuation of TED presentations: 3D photography applications in the student's field	4
Asynchronous: How to download an app and prepare for shooting	5

Equipment familiarization and operation – phone rings, phones, and cameras; hands-on practice at the college	6
Asynchronous: Mobile photography and 3D camera photography	7
Asynchronous: Editing footage into a presentation-ready video	8
Individual meetings: Writing project proposals and initial project guidance	9
Guest lecture: Use of 3D photography for marketing purposes	10
Peer assessment of projects carried out at the college, project guidance, and project proposal submission	11
Project supervision: individual meetings	12

Course Assignments

- Submission task: Exploring the uses of 3D technology within the student's field of study.
- Conducting a photography session within the college and receiving peer feedback.
- A guided industrial collaboration project — conducted beyond the course's scheduled hours.