	Advanced 3D
Description	<ul> <li>Basics of Machine vision</li> <li>3D digitization technologies:         <ul> <li>3D scanners and depth mapping systems</li> <li>Photogrammetry and applications</li> <li>Principles of digital photography</li> <li>3D geometric representation through automated and semi-automated ground and aerial photogrammetry data collection</li> <li>Approaches using GPS and GIS.</li> </ul> </li> <li>Photogrammetry software</li> <li>Advanced applications in the humanities:         <ul> <li>3D digital copies of findings from archaeological excavations, monuments and remains from various historical periods.</li> <li>3D models in the context of an archaeological and historical research</li> <li>Digital copies of exhibits and synthetic museum exhibitions.</li> <li>Development of 3D digital museums and exhibitions.</li> </ul> </li> </ul>
Learning Outcomes	<ul> <li>After the end of the courses the student will</li> <li>be familiar with machine vision components, 3D digitization technologies and Photogrammetry software</li> <li>utilize these technologies in various fields of the humanities</li> </ul>