

Date:	Examination No.:	Version:16-1-2024	Start: 16/1/2024
Module Name - Code	Data Processing		
Module Language:	English		
Responsible:	Assistant Lecturer Mrs. Hadeel Jamal Ali		
Lecture (s):	Assistant Lecturer Mrs. Hadeel Jamal Ali		
College:	College of Engineering – Salahaddin University		
Duration:	14 week – 1 semester		
Course outcomes:	<p>AutoCAD Civil 3D is a comprehensive civil engineering solution for all types of civil engineering projects, covering the needs of engineers, technicians, surveyors, and drafters. It provides a base level of functionality that meets the needs of everyone in the land development process, including land planners, surveyors, civil engineers, drafters, and anyone who creates supporting documents.</p> <p>AutoCAD Civil 3D provides an Application Programming Interface (API), so that other add-on products can be designed to work with AutoCAD Civil 3D.</p> <p>■ Autodesk Survey: An add-on to AutoCAD Civil 3D that provides a streamlined ability to communicate survey data to and from the field.</p> <p>■ Autodesk Civil Design: An add-on to AutoCAD Civil 3D that provides transportation and site engineering tools, and hydrology and hydraulics design and analysis.</p> <p>The Lab Course will enable the students to understand the fundamentals and programming knowledge in civil 3D.</p>		
Course Content:	<p>By the end of the course, student should be able to:</p> <p>Demonstrate the ability to:</p> <p>Read civil/construction drawings (civil plans, profiles, street sections, etc.).</p> <p>Determine drawing scale factor in drawings and final scale of drawings.</p> <p>Use AutoCAD standards and commands for creating engineering civil/construction drawings.</p> <p>1. Work in teams to accomplish a variety of tasks. Includes ability to communicate, manage time, meet deadlines, resolve conflicts, etc.</p> <p>Apply selected engineering design processes for creating a subdivision development: import survey points, create surfaces (TIN/contours), design lots, design a street alignment, and prepare a street profile. Create a site plan for a lot in the subdivision.</p>		
Literature:	1 2 3 4 5	<p>Auto desk, Inc. 2008 “Getting Started”.</p> <p>Auto desk, Inc. 2009 “Auto desk Getting Started”.</p> <p>Auto desk, Inc. 1999 “Auto cad land development desktop”.</p> <p>Auto desk, Inc. 2011 “AutoCAD Civil 3D”.</p> <p>Auto desk, Inc. 2022 “A Practical Guide to Autodesk Civil 3D”.</p>	
Type of Teaching:	<p>2 hrs Theoretical Lectures</p> <p>2 hrs Practical Lectures</p>		
Pre-requisites:			
Frequency:	Yearly in Spring semester		
Requirements for credit points:	<p>For the award of credit points it is necessary to pass the module exam.</p> <p>The module exam (praccal and theorecal) contains:</p> <p>2 hrs in Theorecal lectures</p> <p>2 hrs Praccal lectures</p> <p>Student's aendance is required in all classes.</p>		
Credit point:	5		
Grade Distribution:	<p>The Grade is generated from the examination result(s) with the following</p> <p>20% activity</p> <p>10% practical</p> <p>20% mid-term exam</p> <p>20% final practical exam</p> <p>30% final theoretical Exam</p>		
Work load:	The workload is 150h. It is the result of 60h attendance and 90h self studies.		