Date: 24/ 2/ 2021	Examination No.:	Version:21/ 2/ 2021	Start: 21/ 2/ 2021

Module Name - Code	Data Processing - 7123
Module Language:	English
Responsible:	Assistant Lecturer Hadeel Jamal Ali
Lecture (s):	
College:	College of Engineering – Salahaddin University
Duration:	15 week – 1 semester
Course outcomes:	By the end of the course, the student should be able to: Demonstrate the ability to : Read civil/construction drawings (civil plans, profiles, street sections, etc.). Determine drawing scale factor in drawings and final scale of drawings. Use AutoCAD standards and commands for creating engineering civil/construction drawings. Work in teams to accomplish a variety of tasks. Includes the ability to communicate, manage time, meet deadlines, resolve conflicts, etc. 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.
Course Content:	AutoCAD Civil 3D Land Desktop Companion 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. AutoCAD Civil 3D Land Desktop Companion provides an Application Programming Interface (API), so that other add-on products can be designed to work with AutoCAD Civil 3D Land Desktop Companion. ■ Autodesk Survey: An add-on to AutoCAD Civil 3D Land Desktop Companion that provides a streamlined ability to communicate survey data to and from the field. ■Autodesk Civil Design: An add-on to AutoCAD Civil 3D Land Desktop Companion that provides transportation and site engineering tools, and hydrology and hydraulics design and analysis. The Lab Course will enable the students to understand the fundamentals and programming knowledge in Auto Land.
Literature:	Auto desk, Inc. 2008 "Getting Started". Auto desk, Inc. 2009 "Auto desk Getting Started". Auto desk, Inc. 1999 "Auto cad land development desktop". Auto desk, Inc. 2011 "tutorials Auto desk".
Type of Teaching:	2 hrs in lectures 2 hrs laboratory working.
Pre-requisites:	
Frequency:	Yearly in the spring semester
Requirements for credit points:	For the award of credit points, it is necessary to pass the module exam. The module exam (practical and theoretical) contains: Student's attendance is required in all classes.
Credit point:	5
Grade Distribution:	The Grade is generated from the examination result(s) with the following 20% activity 10% practical 20% mid-term exam 50% Final Exam (30% Theoretical + 20% Practical). Total = 100%
Work load:	The workload is 150h. It is the result of 60h attendance and 90h self studies.