Date:	Examination No.: 15367	Version:2023	Start: 1/9/2021	
Module Name - Code	Advance Database - 15367			
Module Language:	English			
Responsible:	Dr Polla Fattah			
Lecture (s):	Dr Polla Fattah M Aram			
College:	College of Engineering – Salahaddin University			
Duration:	15 week – 1 semester			
Course outcomes:	On successful completion of the module students should be able to demonstrate a hands on understanding of advanced database topics			
Course Content:	1-       Introduction to the course         2-       Revisiting SQL + ER-Modelling + Normalization         3-       Intermediate SQL         4-       Indexing         5-       Transactions         6-       Concurrency Control         7-       Recovery Systems         8-       Query Processing         9-       Data Analysis OLAP         10-       Data Mining         11-       Physical Storage Structure + Data Storage Structure         12-       Database Architectures + Blockchain Databases			
Literature:	<ul> <li>Reference Book for this Course         <ul> <li>Abraham Silberschatz, Henry Korth and S. Sudarshan - Database System Concepts. 7-McGraw-Hill Education (2020)</li> </ul> </li> <li>Alternative Book         <ul> <li>Ramez Elmasri and Shamkant B. Navathe. Fundamentals of Database Systems (7th. ed.). Pearson (2015)</li> </ul> </li> <li>Alternative Lectures         <ul> <li>https://www.youtube.com/playlist?list=PLSE8ODhjZXjasmrEd2_Yi1deeE360zv5O</li> </ul> </li> </ul>			
Type of Teaching:	2 hrs in lectures 2 hrs laboratory working.			
Pre-requisites:	5113 Database Design			
Frequency:	Annually in Fall Semester			
Requirements for	For the award of credit points it is necessary to pass the module.			
credit points:	Not attending final exams will result in failure in the subject			
	Active participation in the lab.			
	Student's attendance is required in all classes. Absence in more than 15% of the classes results in an automatic withdrawal from the			
	subject. 5			

Grade Distribution:	The Grade is generated from the examination result(s) with the following		
	30% Final Theoretical Exam		
	20% Final Practical Exam 20% Individual Project		
	30% Practical weekly exams + Quizzes		
Work load:			
	26 Hours Theory		
	20 Hours Practical		
	60 Home Study		
	• 4 Hours Exams		
	20 Hours Project		
	20 Exam Preparation		
	• 150 Hours Total		