Module Information Course Information						
Module Title	Con	nputer Programmi	ng I	Modu	le Delivery	
Module Type	Supp	ort or related learning ac	tivity		🛛 Theory	
Module Code		UOWA101			□ Lecture	
ECTS Credits		5			🛛 Lab	
					🛛 Tutorial	
SWL (hr/sem)		125			Practical	
					Seminar	
Module Level		UGI	Semester o	nester of Delivery 1		1
Administering Dep	partment	OGE	College	Engine	Engineering	
الاء اكرم جواد Module Leader		-	e-mail	alaa.ak@uowa.edu.iq		-
Module Leader's Acad. Title			Module Lea	Module Leader's Qualification MS.c		MS.c
Module Tutor ON			e-mail E-mail			
Peer Reviewer Name		Name	e-mail	e-mail E-mail		
Scientific Committee Approval Date		01/11/2023	Version Nu	imber 1.0		

Relation with other Modules					
Relationship with other subjects					
Prerequisite module None Semester					
Co-requisites module	None	Semester			

Module Aims, Learning Outcomes and Indicative Contents Course objectives, learning outcomes and instructional contents						
Course o	course objectives, learning outcomes and instructional contents					
Module Aims	is an inevitable part of commerce education. The course is aiming to equip all the					
Course Objectives	commerce aspirants to have basic skills as well as hands on experience on word					
Course Objectives	processing, for creating excel spreadsheets, for building databases through the use of					
	Microsoft Office Word, Excel, and VBA .					

Modulo Loorning	1- To familiarize students with the use of Microsoft Word				
Module Learning	 2- To familiarize students with the use of MS Excel 				
Outcomes	 3- To familiarize students with the use of Excel Visual basic application 				
	5- TO familiarize students with the use of Excel Visual basic application				
Learning outcomes of					
the course					
	Indicative content includes the following:				
	Part I: fundamentals of Microsoft word				
	In Part 1 we will provide students with the skills to create documents using Microsoft				
	Word. It will also provide knowledge of how to create your own document for work,				
	college, or home. Students will learn the basics, creating documents, formatting text,				
	adding graphics, images, Word chart, and many other features available. You will see				
	a full list of course content below. You'll also cover charts and tables, as well as using				
	forms and mail merge.				
	Part II: fundamentals of Microsoft Excel				
	this part provides all the tools necessary to create and use basic spreadsheets.				
	Participants will receive an overview of the interface and learn the various methods				
	for entering and editing data. Additionally, participants will learn the various ways to				
Indicative Contents	write formulas, Create Worksheets and Workbooks, data analysis, create charts. Apply				
Indicative Contents	Custom Data Formats and Layouts, and others which will used to streamline reporting,				
	turn raw data into presentation-ready graphs or chart. where One of the most				
	common uses of Excel in petroleum engineering is for organizing and analyzing data				
	related to well production data.				
	Part III: Visual basic Application				
	In Part 3 we will provide students with the skills to create & develop vb applications,				
	where that allow Engineers to develop engineering applications that run in the				
	Windows environment. VB provides the engineer a programming tool to write simple				
	programs quickly that meet their needs. Example programs written using VB include				
	gas and oil fluid correlations, interpolation software, gas well bottom hole pressure				
	from surface conditions, volumetric reserve calculations, simple log analysis, water				
	pattern analysis and bottom hole pressure analysis.				
	pattern analysis and bottom hole pressure analysis.				

Learning and Teaching Strategies			
Learning and Teaching Strategies			
Strategies	The main strategy that will be adopted in delivering this module is to Encourage students to ask and answer questions, as well as training students to implement many practical exercises in the laboratory (which covers most of what is studied in theoretical lectures), which in turn gives students the ability to carry out the work required of them in the future in their practical life.		

Student Workload (SWL) The student's academic load is calculated for 15 weeks			
Structured SWL (h/sem) Regular academic load of the student during the semester	75	Structured SWL (h/w) Regular student load per week	5
Unstructured SWL (h/sem) Irregular academic load of the student during the semester	47	Unstructured SWL (h/w) Irregular student academic load per week	3
Total SWL (h/wk) The student's total academic load during the semester	125		

Module Evaluation Course Evaluation						
		Time/Nu mber	Weight (Marks)	Week Due	Relevant Learning Outcome	
	Quizzes	2	10% (10)	5, 10	in #1, 2, 10 and 11	
Formative	Assignments	2	10% (10)	2, 12	in #3, 4, 6 and 7	
assessment	Projects / Lab.	1	10% (10)	Continuous	All	
	Report	1	10% (10)	13	in #5, 8 and 10	
Summative	Midterm Exam	2 hr	10% (10)	7	LO #1-7	
assessment	Final Exam	2hr	50% (50)	16	All	
Total assessment			100% (100 Marks)			

Delivery Plan (Weekly Syllabus)				
Theoretical Weekly Curriculum				
	Material Covered			
Week 1	Microsoft Word Create and Manage Documents: Create a Document, Navigate Through Document, Format a Document, Customize Options and Views for Documents, Print and save documents.			

Week 2	Format Text, Paragraphs, and Sections: Insert Text and Paragraphs, Format Text and Paragraphs, Order and Group Text and Paragraphs
Week 3	Create Tables and Lists: Create a Table, modify a Table, Create and Modify a List.
Week 4	Insert and Format Graphic Element: Insert Graphic Elements, Format Graphic Elements, Insert and Format SmartArt Graphics
Week 5	Microsoft Excel : Manage Workbook Options and Setting: Create Worksheets and Workbooks, Navigate in Worksheets and Workbooks, Format Worksheets and Workbooks, Customize Options and Views for Worksheets and Workbook, Configure Worksheets and Workbooks for Distribution
Week 6	Apply Custom Data Formats and Layouts: Apply Custom Data Formats and Validation, Apply Advanced Conditional Formatting and Filtering, Create and Modify Custom Workbook Elements,Create Table: Create and Manage Table, Manage Table Styles and Options, Filter and Sort a Table
Week 7	Perform Operations with Formulas and Functions: Summarize Data by using Function, . Perform Conditional Operations by using Functions, Format and Modify Text by using Functions
Week 8	Create Charts and Objects: Create Charts, Format Charts, . Insert and Format Object, Manage Workbook Options and Settings
Week 9	Excel VBA: Introducing Visual Basic for Applications Displaying the Developer Tab in the Ribbon Recording a Macro
Week 10	Working with Procedures and Functions: Understanding ModulesCreating a Standard Module,Understanding Procedures,Creating a Sub ProcedureCalling Procedures,Using the Immediate Window to Call ProceduresCreating a Function Procedure
Week 11	Understanding Objects: Understanding Objects, Navigating the Excel Object HierarchyUnderstanding Collections, Using the Object Browser, Working with Properties Using the With Statement, Working with Methods
Week 12	Using Expressions, Variables, and Intrinsic Functions: Understanding Expressions and Statements, Declaring, Variables, Understanding Data Types, Working with Variable Scope
Week 13	Controlling Program Execution: Understanding Control-of-Flow Structures Workingwith Boolean Expressions,Using the If End If Decision Structures,Using the Select Case End Select Structure
Week 14	,Using the Do Loop Structure,Using the For To Next Structure,Using the For Each Next Structure

Week 15	Working with Forms and Controls: Understanding UserForms, Using the ToolboxWorking with UserForm Properties, Events, and Methods,, Understanding Controls
Week 16	Final Exam

Delivery Plan (Weekly Lab. Syllabus)			
	Weekly Curriculum of the Laboratory		
	Material Covered		
Week 1	practical exercises to Create and Manage Documents: Save & open document, Format a		
WEEK I	Document, Customize Options and Views for Documents, Print and save as documents.		
Week 2	practical exercises about the Format Text, Paragraphs, and Sections: Insert Text and		
Week 2	Paragraphs, Format Text and Paragraphs, Order and Group Text and Paragraphs		
West 2	practical exercises to Create Tables and Lists: Create a Table, modify a Table, Create and		
Week 3	Modify a List.		
Week 4	Insert and Format Graphic Element: Insert Graphic Elements, Format Graphic Elements,		
Week 4	Insert and Format SmartArt Graphics (practical exercises + homework)		
	(practical exercises + homework) about Microsoft Excel :introduction to interface , Create		
Week 5	Worksheets and Workbooks, Import data from a delimited text file - Add a worksheet to an		
	existing workbook - Copy and move a worksheet		
	practical exercises to :• Change worksheet tab color		
Week 6	Rename a worksheet • Change worksheet order • Insert and delete columns or rows •		
Week o	Change workbook themes • Adjust row height and column width • Insert headers and		
	footers		
	practical exercises with homework about Customize Options and Views for Worksheets and		
Week 7	Workbooks: Hide or unhide worksheets - Hide or unhide columns and rows		
	 Customize the Quick Access toolbar - Modify document properties - Display formulas 		
Mack9	(practical exercises + homework) to Create Charts and Objects: Create Charts, Format Charts,		
Week8	. Insert and Format Object, Manage Workbook Options and Settings		
Marko	Excel VBA:Introducing Visual Basic for Applications Displaying the Developer Tab in the		
Week9	Ribbon Recording a Macro (practical)		

Week10	(practical exercises + homework): about Working with Procedures and Functions: Creating a
	Sub ProcedureCalling Procedures, Creating a Function Procedure
	Using Expressions, Variables, and Intrinsic Functions: Understanding Expressions and
Week11	Statements, Declaring, Variables, Understanding Data Types, Working with Variable
	Scope(practical exercises + homework)
Week12	Working with Boolean Expressions, Using the If End If Decision Structures, Using the Select
Week12	Case End Select Structure(practical exercises + homework):
	Working with Do Loop Structure, Using the For To Next Stru Working with Boolean
Week13	Expressions, Using the If End If Decision Structures, Using the Select Case End Select Structure Working with Boolean Expressions, Using the If End If Decision Structures, Using
	the Select Case End Select Structure cture, Using the For Each Next Structure (practical
	exercises + homework)
Week14	Working with Forms and Controls: How insert data to Worksheets and Workbooks, create
	function, perform arithmetic operation using VBA (practical exercises + homework)
Week15	Preparatory week before the final Exam

Learning and Teaching Resources					
Learning and Teaching Resources					
	Text	Available in the Library?			
Required Texts	• Microsoft Office for Beginners,by , M.L. Humphrey, 2020.	Yes			
	• MICROSOFT WORD & POWERPOINT FOR BEGINNERS & POWER USERS 2021: The Concise Microsoft Word &	No			
	 PowerPoint A-Z Mastery Guide for All Users Paperback by Tech Demystified,2021. Microsoft Excel 2019 VBA and Macros ,By Bill Jelen, Tracy Syrstad · 2019 	No			
Recommended Texts					
Websites					

Grading Scheme Grading chart						
Group	Grade	Appreciation	Marks (%)	Definition		
Success Group (50 - 100)	A - Excellent	privilege	90 - 100	Outstanding Performance		
	B - Very Good	Very good	80 - 89	Above average with some errors		
	C - Good	Good	70 - 79	Sound work with notable errors		
	D - Satisfactory	medium	60 - 69	Fair but with major shortcomings		
	E - Sufficient	popular	50 - 59	Work meets minimum criteria		
Fail Group (0 – 49)	FX – File	Deposit (in processing)	(45-49)	More work required but credit awarded		
	F – File	Failure	(0-44)	Considerable amount of work required		

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.