

LONDON CAPITAL COMPUTER COLLEGE

Diploma in Information Technology (103) – Microsoft Excel

and keyboarding skills.	Information Systems.	
	Lim: Excel isn't just for financial professionals. This spreadsheet and analysis program offers intuitive	
tools that make it easy to access, connect, and analyse critical data regardless of candidates profession.		
Excel is a spreadsheet program that lets users capture		
candidates the skills they need to create spreadsheet		
personal data. Candidates learn how to create basic		
making the sheet look attractive. Candidates also lea		
Techniques to produce reliable Excel workbooks are		
and edit existing worksheets and develop new ones		
formulas to analyse data quickly.	and now to make the most of Exect by creating	
Required Materials: Recommended Learning Supplementary Materials: Lecture notes and		
Resources.	tutor extra reading recommendations.	
Special Requirements: Significant hands-on labs u		
Intended Learning Outcomes:	Assessment Criteria:	
1 Describe why Excel is a very important	1.1 Demonstrate how to start Excel, open a	
tool. Identify how to enter data, save the	workbook and Move around a worksheet	
workbook and print worksheets.	using the mouse and arrow keys	
workbook and print worksheets.	1.2 Illustrate how to select a block of cells,	
	type into worksheet cells text, values,	
	formulas, and functions, edit and clear	
	cell entries	
	1.3 Define how to save a workbook, print a	
	worksheet, print worksheet formulas and	
	exit Excel.	
	1.4 Define the difference between a	
	workbook and a worksheet.	
	1.5 Illustrate how the rows and columns in a	
	worksheet are labelled.	
	Worksheet are incented.	
2 Demonstrate how to enhance	2.1 Define how create formulas containing	
worksheets. Discover how to use colour, borders,	cell references and mathematical	
textboxes and graphics features. Illustrate how to	operators	
align data and apply character formats, formatting	2.2 Demonstrate how to write functions	
rows, columns and worksheets.	including Sum, Average, Max, and Min	
	2.3 Demonstrate how use Excel's AutoSum	
	feature to automatically write Sum	
	functions	
	2.4 Illustrate several ways of copying	
	formulas from one cell to many other	
	cells	
	2.5 Differentiate between absolute, mixed,	
	and relative cell reference	
	2.6 Identify how adjust column widths, set a	
	print area and move text, values, and	
	formulas	
	2.7 Demonstrate how to insert and delete	
	rows and columns	
	2.8 Demonstrate how to format cells	
	2.9 Illustrate how to create cell comments.	

	3.1	Identify how to left, center and right-
3 Discuss absolute and relative cell		align text
referencing. Discover how to write formulas, use functions, copying and moving cell contents and	3.2	Demonstrate how to apply currency and accounting formats to numbers
format cells. Discover important concepts; good worksheet planning and documenting	3.3	Demonstrate how apply boldface, italics, and underlines to cells
worksheet planning and documenting.	3.4	Define how to clear all formatting from selected cells
	3.5	Illustrate how to modify column widths and row heights
	3.6	Demonstrate how to hide and reveal rows and columns
	3.7	Evaluate how to remove worksheet gridlines
	4.1	Define a data series and data estagories
4 Discover different types of charts.	4.1	Define a data series and data categories Demonstrate how to create an embedded
Illustrate how to organise data, the type of charts	7.2	chart and a chart sheet
best suited for specific situations and how to format charts.	4.3	Demonstrate how to modify an existing chart by revising data, altering chart text,
	4.4	and labelling data Illustrate how to use colour and patterns
		to embellish a chart
	4.5	Define how to add a new data series to a chart
	4.6	Demonstrate how to alter a chart type
	4.7	and create a three dimensional chart
	4.7	Identify how to create a pie chart with a title, exploding slice, labels, and floating text
	4.8	Identify how to add texture to a chart Delete embedded charts and chart sheets.
5 Demonstrate how to design a workbook	5.1	Demonstrate how to create and maintain a list
using Excel's sorting, filtering and grouping	5.2	Identify how to freeze rows and columns
features. Describe how to create pivot tables and pivot charts, freezing rows and columns and using	5.3	Demonstrate how to sort a list on multiple sort keys
folders for workbook storage.	5.4	Demonstrate how to enter, search for, modify, and delete records in a list with a data form
	5.5	Define how to group and outline structured data
	5.6	Illustrate how to create outlines and subtotals
	5.7	Demonstrate how to create and apply conditional formatting
	5.8	Demonstrate how to create filters and advanced filters with AutoFilter
	5.9	Identify how to use worksheet labels and names in formulas
	5.10	Define how to create a pivot table and
	5.11	pivot chart Define how to create and use folders for workbook storage.
6 Discover how to provide data validation, use the logical if function and write the index	6.1	Identify how to develop separate assumptions and output sections of a
function.	6.2	worksheet Demonstrate how to use Insert Function
	0.2	to help write worksheet functions
	6.3	Illustrate how to provide data validation

		for selected worksheet cells
	6.4	Explain how to define and use names in
	0.4	functions in place of cell references
	6.5	Explain how to investigate the logical
		function IF
	6.6	Demonstrate how to write the index function VLOOKUP
	6.7	Illustrate how to write financial functions
	6.8	including PV, PMT, PPMT, and IPMT Identify how to write and apply the
		NOW date function.
	6.9	Demonstrate how to use DSUM,
		DAVERAGE, DMAX, DMIN, and
	6.10	DCOUNT functions.
	0.10	Demonstrate the implementation of the AutoFilter and Advanced Filter
		commands.
	6.11	Identify how to use the Subtotals command.
7 Describe how to create a workbook	7.1	Demonstrate how to design a multiple-
template, rename and colour worksheet tabs;	/.1	sheet workbook and understand when it
grouping, inserting, deleting and repositioning		is useful
worksheets. Demonstrate using three- dimensional formulas.	7.2	Illustrate how to set the default number of worksheets
	7.3	Identify how to insert, delete, and
		reposition worksheets in a workbook
	7.4	Define how to create a workbook
	7.5	template
	7.5	Demonstrate how to rename a worksheet tab and colour it
	7.6	Illustrate how to establish worksheet
		page settings
	7.7	Identify how to group worksheets in a
		workbook and enter data in multiple
	7.8	sheets at once Identify how to consolidate and
	7.0	summarize data using three-dimensional
		formulas
	7.9	Identify how to use cell Watch
	7.10	Analyse how to reference cells in other
		workbooks using link formulas
	7.11	Demonstrate how to maintain and update linked workbooks.
	0 1	Identify how to and the Audit to the
8 Describe how to protect a workbook.	8.1 8.2	Identify how to use the Audit toolbar Identify how to locate a cell's precedent
Identify the auditing toolbar, sharing a workbook	0.2	cells and dependent cells
with others and publishing workbooks to the web.	8.3	Demonstrate how to display and clear
		tracer arrows
	8.4	Identify how to locate and correct errors
	8.5	using audit tools Demonstrate how to share a workbook
	0.5	with other users
	8.6	Define how to insert comments and
	8.7	review others' comments Define how to track, accept, and reject
	0.,	changes made to a workbook
	8.8	Explain how to merge multiple versions
	9.0	of the same workbook
	8.9	Demonstrate how to protect workbooks and worksheets.
		and workingous.

	8.10 8.11	Demonstrate how to hide worksheets. Demonstrate how to publish workbooks to the Web.
9 Analyse the cost given various estimated rates of interest. Describe how to create and use one-variable data tables, excel scenarios and scenario report.	9.1	Identify the relationships between volume, cost, and profit
	9.2	Explore how to use break-even analysis to determine production levels for profitability
	9.3	Explain how to create and use one- variable and two-variable data tables
	9.4	Evaluate how to create charts based on one-variable and two-variable data tables
	9.5	Demonstrate how to create Excel scenarios
	9.6	Demonstrate how to manage Excel scenarios with the Scenario Manager
	9.7	Define how to view, add, edit, and delete scenarios
	9.8	Identify how to create a scenario report
10 Define how to use Excel's solver to unravel complex tasks.	10.1	Define how to use Excel's goal-seeking tools and concisely state a goal-seeking objective
	10.2	Identify how to implement goal-seeking by using a graph
	10.3	Identify how to create goal-seeking reports
	10.4	Illustrate how to install the Excel Solver tool
	10.5 10.6	Demonstrate how to use Excel's Solver to unravel more complex problems Define how to create Solver answer,
		limit, and sensitivity reports.
11 Describe how to import text files into Excel and copying a worksheet from one	11.1	Identify how to import text files into Excel with the Text Import Wizard
workbook to another. Define using Microsoft Query to create a query to filter, sort, and retrieve	11.2	Demonstrate how to move a worksheet from one workbook to another one
data records and writing aggregate queries to summarise imported data.	11.3	Demonstrate how to import database information into Excel using the Query Wizard
	11.4	Illustrate how to use Microsoft Query to create a query to filter, sort, and retrieve database records
	11.5	Illustrate how to write a database query that joins two related database tables and
	11.6	returns values from each table Identify how to edit and save database
	11.7	queries Describe how to write an aggregate query to summarise imported data
Outline the Visual Basic editor, how to save macros, setting macro security levels, and	12.1	Illustrate how to record a macro instruction
creating an automatically executing macro.	12.2	Identify how to examine and use the Visual Basic Editor
	12.3	Identify how to run macro instructions using a dialog box and a command button
	12.4	Illustrate how to save a macro in your Personal Macro Workbook

12.5 Identify how to create and modify Visual
, and the second
Basic Code in the Visual Basic Editor
12.6 Identify how to use Visual Basic objects,
methods, properties, and variables
12.7 Define how to create a macro that
automatically executes when you open a
workbook
12.8 Illustrate how to hide the Personal Macro
Workbook
12.9 Illustrate how to create custom functions
12.10 Identify how to protect a worksheet to
preserve its integrity.
preserve us integrity.

Recommended Learning Resources: Microsoft Excel

Text Books	 Microsoft® Office Excel® Step by Step by Curtis Frye. ISBN-10: 0735615187 New Perspectives on Microsoft Office Excel 2007, Comprehensive (New Perspectives) by June Jamrich Parsons Dan Oja, Roy Ageloff and Patrick Carey. ISBN-10: 1423905857 Microsoft Office Excel Inside Out (Paperback) by Mark Dodge and Craig Stinson. ISBN-10: 073562321X Microsoft Office Excel Illustrated Complete (Paperback) by Elizabeth Eisner Reding and Lynn Wermers. ISBN-10: 1423905229
Study Manuals	BCE produced study packs
CD ROM	Power-point slides
Software	Microsoft Excel