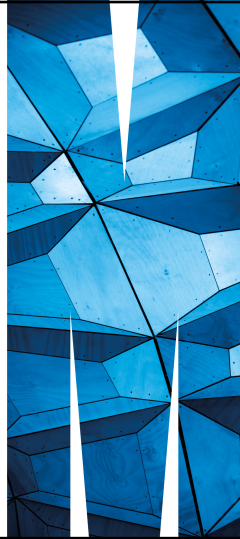


FIT1013 Digital Futures: IT for Business Week 12 : Summary and Review

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Unit Schedule – subject to changes

Week	Topic/Objectives	Prescribed Textbook Reference	Tutorial	Lab
1	Calculating Data with Formulas and Functions	Excel 2016 Module 3 (Check Modules 1 and 2 by yourself)	Tutorials commence in Week 1	
2	Excel Tables, PivotTables, PivotCharts, Introduction to Tableau	Excel 2016 Module 5		
3	Advanced Functions	Excel 2016 Module 8		
4	Developing an Excel Application	Excel 2016 Module 7	Assignment 1 due 17 August	
5	Fundamentals of Programming	Excel VBA		
6	Numeric Variables and Selection Structures	Excel VBA		

Unit Schedule – subject to changes

Week	Topic/Objectives	Prescribed Textbook Reference	Tutorial	Lab
7	Date Variables and Repetition Structures	Excel VBA		
8	User Forms	Excel VBA		
9	Modularisation, Structure Charts and Connecting to External Data	Excel 2016 Modules 10,11,12		
10	Creating a Database and Defining Table Relationships	Access 2016 Modules 1, 2		
11	Querying a Database and Creating Advanced Queries	Access 2016 Modules 3, 5	Assignment 2 due 12 October	
12	Summary and Review	Access 2016 Module 9 (optional)		

Unit Assessment

ASSESSMENT	% OF FINAL MARK	COMMENT
Examination	50%	Closed book (2 hours)
Non-Exam		
Tutorial Attendance & Participation	Hurdle	This is a hurdle to your Lab Quiz and Test for the week
Lab Quiz and Test (Weekly)	20%	Based on weekly topics
Assignment 1	10%	Individual assignment
Assignment 2	20%	Group Assignment, marks allocated for work in progress and assessed during tutorials/labs

Assessment

IMPORTANT NOTE:

- To pass a unit which includes an examination as part of the assessment, a student must obtain, unless otherwise approved and published:
- 40% or more in the unit's examination, and
- 40% or more in the unit's total non-examination assessment, and
- an overall unit mark of 50% or more.
- If a student does not achieve 40% or more in the unit examination or the unit non-examination total assessment, and the total mark for the unit is:
- equal to or greater than 50%, then a mark of 49-N will be recorded for the unit.
- less than 50% then the actual mark for the unit will be recorded.



Revision suggestions

- Revise lecture notes and references to chapters (modules) of prescribed textbooks
- Revise tutorial work
- Sample Exam questions
- The programming questions in the exam will involve only **Excel VBA** (not Access VBA)



2018 FIT1013 Exam Structure

Semester Two 2018

Examination Period
Faculty of Information Technology

EXAM CODES: FIT1013

TITLE OF PAPER: Digital Futures: IT for Business – Paper 1

EXAM DURATION: 2 hours writing time

READING TIME: 10 minutes

INSTRUCTIONS

1. This exam is divided into 4 Sections.
- 2.
3. Attempt **ALL** questions in this examination.
- 4.
5. For Section A, using the Multiple-Choice Form, mark your answers for Section A by shading the letter with a pencil corresponding to ONE **best** answer
 - 1 mark for a correct answer
 - 0 mark for a wrong, no answer or more than one answer
6. For Sections B, C and D write your answers in the spaces provided in this examination paper.
7. You may request for an examination script book if needed.
8. Clearly label each of your answers in the examination paper/script book.



FIT1013 Exam – Revision

- The exam will be based on the material listed previously, much of which is covered in your Access and Excel text books and is supplemented by the lecture notes and tutorials provided on the FIT1013 Moodle site.
- **Remember: in order to obtain a pass in FIT1013, you MUST obtain a mark of at least 40% on the exam.**



Multiple Choice Questions

1. Which of the following is **TRUE**?
 - a. Structure charts are normally used in object oriented design
 - b. A principle of structured design is to have highly cohesive modules
 - c. The context diagram provides detailed information about the design of the system
 - d. Module coupling is a measure of the number of lines of code in the system

2. When a query is run, the datasheet contents are _____
 - a. saved as part of the query structure
 - b. temporary
 - c. stored in a query table
 - d. based on the criteria you establish in the field list



Multiple Choice Questions

1. b
2. b

Note: Access and Excel MC questions are based on lecture materials and the relevant chapters of the New Perspectives textbooks



Section B: Excel

For this question you may wish to use one or more of the functions below:

COUNTIF(range, criteria) SUMIF(range, criteria, [sum_range]) DCOUNT(database, field, criteria)
 DSUM(database, field, criteria) DAVERAGE(database, field, criteria)
 INDEX(array, row_num, column_num) IPMT(rate, per, nper, pv, fv, type) ISERR(value)
 ISNA(value)
 MATCH(lookup_value, lookup_array, [match_type]) PMT(rate, nper, pv, fv, type)
 PPMT(rate, per, nper, pv, fv, type)
 VLOOKUP(lookup_value, table_array, col_index_num, [range_lookup])



Example

- Below is an Excel spreadsheet (**Fig 1**) containing information about degrees offered at Montague University.

	A	B	C	D	E
1	degree Code	degree Name	Duration (years)	Total Cost of degree:	average yearly cost of degree:
2	0001	Business Systems	3	\$ 35,000	
3	0002	Business Systems Law	4	\$ 40,000	
4	0003	Business Systems Commerce	4	\$ 45,000	
5	0004	Computer Science	3	\$ 30,000	
6	0005	Bachelor of Commerce	3	\$ 32,000	
7			average cost of degrees:		



You are required to provide formulas for the following cells:

- a. D7 should contain a formula which provides the average cost of a degree. **(2 marks)**
- b. E2 should contain a formula which provides the average yearly cost of each specific degree offered. This formula should be written in such a way that it is easily copied to cells E3:E6. **(2 marks)**

Solutions:

- a. =AVERAGE(D2:D6)
b. =D2/C2 (must have relative or mixed references for full marks)

VBA Programming questions - Section C of exam

1. Describe the outcome(s) when the following VBA code is executed.
- ```
Private Sub Workbook_Open()
Dim strName as String, strRate as String, shtJan as Worksheet Set
shtJan =
Application.Workbooks("commission.xls").Worksheets("January")
End Sub
```

**(2 marks)**

Solution

Declares 2 string variables and one worksheet object variable.  
Then assigns the address of the January worksheet in the Commission workbook to the object variable, shtJan.

Write a procedure called AddOne with the following steps

- declare an integer variable named intNum
- while the value of intNum is less than 5 repeat the following:
- provide a message to the user with the value of intNum
- add one to the value of intNum

Answer:

```
Public Sub AddOne() Dim intNum As Integer Do While intNum < 5
MsgBox prompt:="intNum =" & intNum intNum = intNum + 1
Loop
End Sub
```

**(3 marks)**

## Section D: MS Access

Narrative, tables, field definitions see sample exam paper

**Query 1:** Using the Query by Example form (Figure 1 below), show the contents of the QBE if you wish to allow the user to enter two dates and then display all employees who joined the company between those two dates, grouped into full time and part time employees. (If a particular row is not required in the design grid, leave it blank). **(3 marks)**

|                                                                                                                                      |   |   |   |   |   |
|--------------------------------------------------------------------------------------------------------------------------------------|---|---|---|---|---|
| Insert required tables in this section.<br>(Note, you don't need to include all the fields, just the table names and relationships). |   |   |   |   |   |
| Field:                                                                                                                               |   |   |   |   |   |
| Table:                                                                                                                               |   |   |   |   |   |
| Total:                                                                                                                               |   |   |   |   |   |
| Sort:                                                                                                                                |   |   |   |   |   |
| Show:                                                                                                                                | E | E | E | E | E |
| Criteria:                                                                                                                            |   |   |   |   |   |
| or:                                                                                                                                  |   |   |   |   |   |

Figure 1 :Query by Example

## Section D: MS Access

Employee

- EmployeeCode
- FirstName
- LastName
- FT/PT
- Annual\_Salary
- StartDate

| Field:    | FT/PT                               | StartDate                            | FirstName                           | LastName                            |
|-----------|-------------------------------------|--------------------------------------|-------------------------------------|-------------------------------------|
| Table:    | Employee                            | Employee                             | Employee                            | Employee                            |
| Total:    | Group By                            | Group By                             | Group By                            | Group By                            |
| Sort:     |                                     |                                      |                                     |                                     |
| Show:     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/>  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Criteria: |                                     | Between [first date] And [last date] |                                     |                                     |
| or:       |                                     |                                      |                                     |                                     |

## Pre exam consultation

- Refer to Moodle site – details to be uploaded
- Other times by appointment via email
- Thank you to those of you who made an effort to participate and engage with us in the unit.
- I hope you will benefit from your learning and development in this unit.
- Good bye and best wishes to your exams and future careers!