UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

Cambridge International Diploma in ICT Standard Level

Scheme of Work

5196 Business Charts Optional Module





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Introduction

This Optional Module is about preparing a variety of charts, making changes to the default formatting to enhance or emphasise certain parts of the information.

What is assessed in this Module?

- importing data extracting data from a large set
- entering data with 100% accuracy
- creating charts e.g. Bar, Pie and Line
- adding axis labels
- adding legend
- adjusting axis scale
- adding a second axis
- emphasising parts of a chart e.g. shading, patterns, segment
- printing charts

Tutor Preparation Required to Deliver this Module

You will need:

- prepared files for the students to load and use as source data for chart production
- raw data for students to create charts
- documentation showing what the students have to produce
- these files and documents should incorporate appropriate data to allow the students to create the various charts.

Underpinning Knowledge

It is necessary to discuss with the students the different types of charts that are used to give a clear image of data. You may wish to discuss why, and when you would use:

- a bar chart
- a pie chart
- a line graph

General Principles and Procedures

You should produce notes for this session to include:

- import data from a large data set
- creating the different types of graphs
- modifying the structure of a graph after production
- adding a second Y-axis
- showing different label options e.g. pie chart labelled segments with text and/or value

Scheme of Work

Assessment Objectives	Performance Criteria	Classroom Ideas	Resources	Notes
Session Plan One				•
 different types of charts how data sets are used to create charts the language of charts how to import data the need for accurate data entry how to select data sets how to create bar charts from data sets 	1.1.1 1.2.1 2.1.1 2.1.2 2.1.3 2.1.4 2.1.5	 discuss the use of charts to display numeric data import and look at various sets of data to decide how it could best be displayed in chart form. discuss the language of charts, Titles, legends, data sets, category axis, value axis extract data from a data set to create a bar chart. ensure labels and legends are in place if requested. save and print 	 various instruction sheets and handouts large sheets of paper and marker a number of pre designed data sets in different formats prepared data sets for importing prepared data sets for manual entry prepared data files for importing 	students should be introduced to different file types which should include generic and software specific formats, e.g. CSV, XLS all standard terms should be included like: title, legend, data sets, category axis, value axis, segments
Session Plan Two				
 how to create pie charts from data sets how to manipulate pie charts to emphasise data 	2.2.1 2.2.2 2.2.3 2.2.4 2.2.5	 extract data from a data set to create a pie chart ensure labels and legends are in place if requested manipulate pie charts to emphasise data (e.g. exploded segments) save and print 	 prepared data sets for manual entry prepared data files for importing 	cover how segments can be displayed with labels and % values, as exploded segments, etc.

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Assessment Objectives	Performance Criteria	Classroom Ideas	Resources	Notes
Session Plan Three				
 how to produce a variety of line graphs from data sets add an extra data set set a second y (value) axis adjust the axis range to display min and max values why setting the axis range (min and max) can give the chart a different appearance 	2.3.1 2.3.2 2.3.3 2.3.4 2.3.5 2.3.6 2.3.7	 extract data from a data set to create a line graph ensure labels and legends are in place if requested adding additional data set/s to imported data files redefining data sets to include new data adding a second value axis to an existing chart adjust the axis range (min & max) save and print 	 prepared data sets for manual entry prepared data files for importing exercises defining ranges of maximum and minimum values for the axis exercises with pre drawn graphs to enable the adding of additional data sets and the adding of a second value axis exercises designed to show changing the axis values to show the changes in appearance of the chart 	
Session Plan Four				
 search data in order to extract data sets based upon the searched criterion extract data series which do not sit together within the original worksheet cover all the chart options to produce a variety of charts with the same data set 	all	 extract data using searched criterion to create data sets extract data series which are remote from each other within the worksheet produce bar charts produce pie charts produce line graphs ensure all data is legible when printed on black and white printers save and print different types of charts 	prepared data files for importing prepared data files for importing - a full set of data that each type of chart can be produced from needs to be available	

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Session Plan Five							
undertake Business Charts specimen paper	all	Business Charts specimen paper					
Session Plan 6							
		practice test debrief sessiondiscussion of answers					
Session Plan Seven							
undertake Business Charts Module Assessment		Business Charts Assessment					
Extension exercise							
look at some internet sites for ideas from software companies on the use of software in industry.			internet or intranet facilities.				

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