# SCHEME OF WORK FOR 3RD TERM

## CLASS : SS1

WEEKS TOPICS

|  |  |
| --- | --- |
| 1. | Revision |
| 2. | Word Processing : definition and uses |
| 3. | Word Processing : examples of word processing package; Ms office suite |
| 4. | Word Processing : loading ,exiting ,creating , saving ,and retrieving files |
| 5. | Spreadsheet : definition and uses |
| 6. | Spreadsheet : examples ,using MS EXCEL |
| 7. | Spreadsheet : loading ,exiting , Ms excel ,creating ,saving and retrieving files |
| 8. | Databases management : definition and examples |
| 9. | Database management : uses of Ms Access and spreadsheet for database |
| 10. | Database management : loading ,editing Ms access, creating , saving and retrieving files |
| 11. | Revision |

12. Examination

**WEEK 1 AND 2**

## Word Processing

Word processing means to use a computer to create, edit, format and print documents. The great advantage of word processing over using a typewriter is that you can make changes without retyping the entire document

## Word Processor

A word processor is computer application software that enables a user to create a document,editand format, store it electronically and print

## Uses of Word Processing

Some of the functions of word processing software include:

Creating, editing, saving and printing documents.

Copying, pasting, moving and deleting text within a document.

Formatting text, such as font type, bolding, underlining or italicizing.

Creating and editing tables.

Inserting elements from other software, such as illustrations or photographs. Correcting spelling and grammar.

## Application of Word Processor

A word processor can be used for creating documents like :

Memo

Letters

Resumes

Examinations

Books

Invitations

Invoices

Postcard etc

## EXERCISE

Define the following terms

1. Word processing 2. Word processor

**WEEK THREE**

## Examples Of Word Processor

The examples of word processor include the following

1. Word star
2. Microsoft Word
3. Word Perfect
4. Word Pad etc.

## Features of the word processor

The basic features of the word processors are

1. **Insert Text** : allow you to insert text anywhere
2. **Delete text** : allows you to erase text , characters, words or lines
3. **Cut ,copy , paste** : cut allows you to move an item in a copy mode, copy allows you to duplicate while paste allows you to insert an item that has already being cut or copied
4. **Page size and Margin** : this allows you to adjust your page size and margins
5. **Search and replace:** this allow you to search for a particular word with the option of replacing it with another word .

Other features of the standard Word processor are :

File management

Font specification

Headers , footers and page numbers

Layouts

Macros

Spell checkers

Thesaurus

Table of content and index.

## Office Application

The Microsoft Office suite incorporates the following:

1. Word Processori.e. Ms Word
2. Spread sheet i.e. Ms Excel
3. Presentation Package i.e. Ms PowerPoint
4. Database Package i.e. Ms Access
5. Web Page/ website development package i.e Front Page

## Common features of the office suite

1. **Title Bar** : this is the to bar of the window that displays the name of the active document and the application name.

**Menu Bar** : this is displayed under the title bar which contains some categories of commands such as home , insert , page layout , references , review , view etc.

**Status Bar** : it displays information about the current page number

**Workspace** : it is the area where actual work processing is done

**Ruler** : this display the current page width , left and right margins and the set tab stop if any.

## Entering Text

To enter text, just begin typing from the keyboard at the insertion point. The insertion point moves to the right as you type. When you come to the end of the line continue to type as you don’t need to press ENTER key before it automatically goes to the next line.

## Moving around the document

Use the following combination of keys to move around the document

Key combinations Movement

|  |  |
| --- | --- |
| Home | Move to the beginning of the line |
| End | Move to the end of the line |
| Ctrl + right arrow | Move one word to the right |
| Ctrl + left arrow | Move one word to the left |
| Ctrl + up arrow | Moves to the previous paragraph |
| Page up | Move up one window |
| Page down | Move down one window |
| Ctrl + Pgup | Move up one page |
| Ctrl + Pgdn | Move down one page |
| Ctrl + home | Move to the top of the document |

Ctrl + End Move to the bottom of the document

## Selecting Text with the Mouse

The mouse is an excellent tool for selecting text in your document during the editing process. The following steps guides you in text selection

1. **Double clicking** : double a word to select it
2. **Triple clicking** : triple in a paragraph to select it
3. **Ctrl + click** : is used for selecting a sentence

## Font formatting in Word processing

**Formatting** : this is the manipulation carried out on the font . this is also called text called Text Formatting.

The various text formatting includes :

1. **Changing font** : font is a collection of letters ,numbers ,and special characters that contains the same type face, thickness and size.

**Changing font sizes** : font sizes of characters can be increased up to 72

**Font Attribute** : the following can be carried out on the font i. Bold ii. Italic

iii. Underline iv. **Font colours**: the colour of the characters can be changed to a suitable one **Page Setup**

The following can be done under page setup

1. Settings Margins
2. Setting Paper size
3. Page orientation

EXERCISE

State the feautures of the word processor

**WEEK FOUR**

## Closing the Ms Word

1. You can simply close your document by clicking the close button on the database window

## Exiting Ms Word

After all present work have been saved , one can exit by :

1. Click the Ms Office button at the top left corner of the window and click exit Word 2. Or Using the keyboard shortcut : Alt + f4

## Loading Ms Word

1. From the windows desktop (window 7) , click the start button
2. Select All programs
3. Navigate to Ms Office and select Ms word

## Creating a New file

1. Click the office button and then click New
2. Select Blank document

## Saving A File

1. Click Office button
2. Click Save or use the keyboard Shortcut Crtl + S

## Open or Retrieve A File

1. Click the office button
2. Click the Open Button and select from the files you want to open .

Keyboard shortcut :Crtl + o

EXERCISE

**State the procedures on how to**

1. **load the Ms word**
2. **close the ms word**

**WEEK : FIVE**

## Spreadsheet

A *spreadsheet* is a sheet of paper that shows accounting or other data in rows and columns; a *spreadsheet* is also a computer application program that simulates a physical *spreadsheet* by capturing, displaying, and manipulating data arranged in rows and columns.

Alternatively referred to as a **worksheet**, a **spreadsheet** is a file made

of [rows](http://www.computerhope.com/jargon/r/row.htm) and[columns](http://www.computerhope.com/jargon/c/column.htm) that help sort data, arrange data easily, and calculate [numerical](http://www.computerhope.com/jargon/n/numeric.htm) data. What makes a spreadsheet [software](http://www.computerhope.com/jargon/s/software.htm) program unique is its ability to calculate values using mathematical [formulas](http://www.computerhope.com/jargon/f/formula.htm) and the data in [cells](http://www.computerhope.com/jargon/c/cell.htm). A good example of how a spreadsheet may be used is creating an overview of your bank’s balance. Below is a basic example of what a [Microsoft](http://www.computerhope.com/comp/msoft.htm) [Excel](http://www.computerhope.com/excel.htm) spreadsheet looks like, as well as all the major portions of a spreadsheet highlighted.

What is an active worksheet?

An active worksheet is the worksheet that is currently open. For example, in the picture above, the sheet tabs at the bottom of the window show “Sheet1”, “Sheet2”, and “Sheet3”, with Sheet1 being the active worksheet. The active tab usually has a white background behind the tab name. **uses of spreadsheets.**

## Finance

Spreadsheets are great at any financial data, such as your checking account information, budgets, transactions, billing, invoices, receipts, forecasts, and any payment system.

## Forms

Form templates can be created to handle inventory, evaluations, performance reviews, quizzes, time sheets, patient information, and surveys.

## School and Grades

Teachers can use spreadsheets to track students, calculate grades, and identify important data, such as high and low scores, missing tests, and students who are struggling.

## Lists

Managing a list in a spreadsheet is a great example of data that does not contain numbers, but still can be used in a spreadsheet. Great examples of spreadsheet lists include telephone, to-do, and grocery lists.

## Sports

Spreadsheets can keep track of your favorite player stats or stats on the whole team. With the collected data, you can also find averages, high scores, and other statistical data. Spreadsheets can even be used to create tournament brackets.

EXERCISE

1. Define the spreadsheet
2. state 3 uses of the spreadsheet

**WEEK SIX**

## Examples of spreadsheet programs

Today, [Microsoft Excel](http://www.computerhope.com/jargon/e/excel.htm) is the most popular and widely used spreadsheet program, but there are also many alternatives. Below is a list of spreadsheet programs that can be used to create a spreadsheet.

[Google Docs](http://docs.google.com/) – (Online and free) [iWork Numbers](http://www.computerhope.com/jargon/i/iwork.htm) – Apple Office Suite

[LibreOffice](http://www.computerhope.com/jargon/l/libreoff.htm) ->Calc (Free)

[Lotus 1-2-3](http://www.computerhope.com/jargon/l/lotus123.htm) (Discontinued)

[Lotus Symphony](http://www.computerhope.com/jargon/l/lotusymp.htm) – Spreadsheets

[Microsoft Excel](http://www.computerhope.com/jargon/e/excel.htm)

[OpenOffice](http://www.computerhope.com/jargon/o/openoffi.htm) ->Calc (Free) [VisiCalc](http://www.computerhope.com/jargon/v/visicalc.htm) (Discontinued)

Other examples and uses of a spreadsheet

Although spreadsheets are typically used with anything containing numbers, the uses of a spreadsheet are almost endless. Below are some other popular

EXERCISE

State 6 examples of the spreadsheet programs

**WEEK SEVEN**

# How to Start and Exit Excel 2010

Microsoft Office Excel 2010 provides several methods for starting and exiting the program. You can open Excel by using the Start menu or a desktop shortcut. When you want to exit Excel, you can do so by using the File tab, the Close button, or a keyboard shortcut.

## Starting Excel 2010 from the Start menu

To start Excel 2010 from the Windows Start menu, choose

Start→AllPrograms→MicrosoftOffice→Microsoft Excel 2010. A new, blank workbook appears, ready for you to enter data.

Excel 2010 displays a new, blank workbook when you start the program.

## Creating an Excel 2010 desktop shortcut

You may prefer having the Excel 2010 program icon appear on the Windows desktop so that you can launch the program from there.

To create an Excel 2010 desktop shortcut, follow these steps:

1. **Choose Start→AllPrograms→Microsoft Office.**
2. **Right-click Microsoft Excel 2010, highlight Send To on the shortcut menu, and click Desktop (Create Shortcut) on its continuation menu.**

A shortcut named Microsoft Excel 2010 appears on your desktop. You can rename the shortcut to something shorter, such as Excel 2010.

**Right-click the Microsoft Excel 2010 icon on the desktop and then click Rename on the shortcut menu.**

**Replace the current name by typing a new shortcut name, such as Excel 2010, and then click anywhere on the desktop.**

## Exiting Excel 2010

When you’re ready to quit Excel, you have several choices for shutting down the program:

Choose File→Exit.

Press Alt+F4.

Click the Close button (the X) in the upper-right corner of the Excel 2010 program window.

If you try to exit Excel after working on a workbook and you haven’t saved your latest changes, Excel displays an alert box asking whether you want to save your changes. To save your changes before exiting, click the Save button. If you don’t want to save your changes, click Don’t Save.

### Saving A File

Click Office button

Click Save or use the keyboard Shortcut Crtl + S

### Open or Retrieve A File

Click the office button

Click the Open Button and select from the files you want to open .

Keyboard shortcut :Crtl + o

EXERCISE

**State the procedures on how to**

1. **Load the Ms Excel**
2. **Close the Ms Excel**

**WEEK EIGHT**

# DBMS – database management system

## Data

Data is the information in a form suitable for processing by the computer, such as digital representation of numbers, text, graphic images or sounds.

## Database

A database of collection of related information organized for rapid search and retrieval. Database can contain all types of data from an address list to students’ scores and grades. Ms Access is a database program that allows you to organize andmanipulates data in many different ways.

## Database Management System (DBMS)

A **d**ata**b**ase **m**anagement **s**ystem (DBMS) is a collection of [programs](http://www.webopedia.com/TERM/P/program.html) that enables you to [store,](http://www.webopedia.com/TERM/S/store.html) modify, and extract information from a [database.](http://www.webopedia.com/TERM/D/database.html) There are many different types [of database management systems, ranging from small systems that run on personal computers to huge systems that run on](http://www.webopedia.com/TERM/P/personal_computer.html) [mainframes](http://www.webopedia.com/TERM/M/mainframe.html)[.](http://www.webopedia.com/TERM/P/personal_computer.html)

### Examples of Dbms Packages

DBASE

RBASE

ACCESS

DATACOM/DB

DB2

FOXPRO

IDMS

INFOMIX

INGRES

ORACLE

PARADOX

SQL SERVER

SYBASE

SYSTEM 2000

### Examples of Database Applications

The following are examples of [database applications](http://www.webopedia.com/TERM/D/database_management_system_DBMS.html):

computerized library systems automated teller machines flight reservation systems computerized parts inventory systems

**A Microsoft Access Interface**

### File

The collection of data that makes up a computerized database must be stored physically on some computer storage medium. The Dbms can then retrieve, update, and process this data as needed.

A file is a sequence of records.

### Record

A database is a row of data in a database table consisting of a single value from each column of data in the table. The data in the column of a table are all of the same type of data, while the rows represent a given.

### Field

A field is a data element that is an essential part of a data record. Withoutit, there would be no record in the database.

### Key

This is a field in a record that holds unique data which identifies that record from other records in the file or database. Examples of keys are Account no. , product code, student’s admission no. etc. as an identifier, each key value must be unique in each record.

Types of keys in database include the following:

1. Super key
2. Candidate key
3. Composite key
4. Primary key

### Tables

A table in a ddatabase, alternatively known as relation, is a two-dimensional structure used to hold related information. A database consists of one or more related tables. it correspond to rows and columns

### Rows

A row in a table is a collection or instance of one thing, such as a student’s one line record or one line item on an invoice.

### Column

A column contains all information of a single type, and the piece of data at the intersection of a row and a column, a field, is the smallest piece of information that can be retrieved with the database’s query language.

An example of column/field is the a field record of lastname

### EXERCISE

Define The Folowing Terms

1. Database
2. Field/ column
3. Key

**WEEK NINE**

## Advantages of a DBMS

### Advantages of DBMS

The database management system has promising potential advantages, which are explained below:

1. **Controlling Redundancy:** By having centralized database, repeated data that are not necessary can be avoided. It is not possible that all redundancy should be eliminated; however this redundancy can be controlled.
2. **Integrity can be enforced:** Integrity of data means that data in database is always accurate, such that incorrect information cannot be stored in database. In order to maintain the integrity of data, some integrity constraints are enforced on the database.
3. **Inconsistency can be avoided:** When the same data is duplicated and changes are made at one site, which is not propagated to the other site, it gives rise to inconsistency. So, if the redundancy is removed chances of having inconsistent data is also removed.
4. **Data can be shared:** A database can be shared by multiple applications in centralized DBMS as compared to file system, so now applications can be developed to operate against the same stored data.
5. **Standards can be enforced** : Since DBMS is a central system, so standard can be enforced easily may be at Company level, Department level, National level or International level.
6. **Restricting unauthorized access:** When multiple users share a database but access to data and information in the database will be controlled. For example, only authorized persons are allowed to access account office data.
7. **Providing Backup and Recovery:** A DBMS must provide facilities for recovering from hardware or software failures. The backup and recovery subsystem of the DBMS is responsible for recovery.

### Disadvantages of DBMS

The disadvantages of the database approach are summarized as follows:

1. **Complexity :** the functionality of a good DBMS makes it an extremely complex piece of software.
2. **Size :** The complexity of the DBMS makes it an extremely large piece of software, occupying many megabytes of disk space large amounts of memory to run efficiently.
3. **Performance:** with the DBMS written for many applications rather than just one, some applications may not run as fast as they used to.
4. **Higher impact of a failure:** The centralization of resources increases the vulnerability of the system
5. **Cost of DBMS:** The cost of DBMS varies significantly, depending on the environment and functionality provided.
6. **Additional Hardware costs:** The disk storage requirements for the DBMS may necessitate the purchase of additional storage space or even additional machines.
7. **Cost of Conversion:** this include; the cost of converting existing applications to new DBMS and hardware, cost of training staff to use the new systems and cost of specialist staff to help with conversion and running of the system.

**Applications and Uses of MS-Access**

### 1. Microsoft Access Used For in Business

Microsoft Access can be used for business For example, you want to make the data of financial report of your business.

### 2. Microsoft Access Used For in Schools

MS Access can be used in administration and statistics. It can also be used for the teachers and students to make the schedules and time table

### 3. For Office

For office, there are many positions of people who often work with database. For examples are secretary, HRD, and financial planner.

### 4. Microsoft Access Used For In The Workplace

It can be used in some organizations for carrying out activities such as are income and outcome report, activity plan and reports.

### 5. For Programmer

Programmers also often work with database. Ms Access is very useful for programmers to ease their activities related to programming.

**WEEK TEN**

### Loading the Microsoft Access

Open an Access database from Windows Explorer

In Windows Explorer, navigate to the drive or folder containing the Access database file you want to open and double-click the database.

Access starts and the database is opened.

Open a database from within Access

If Access is already running, use the following procedure to open a database:

1. Click the **Microsoft Office Button** , and then click **Open**.
2. Click a shortcut in the **Open** dialog box, or in the **Look in** box, click the drive or folder that contains the database that you want.
3. In the folder list, browse to the folder that contains the database.
4. When you find the database, do one of the following:

Double-click the database to open it in the default mode specified in the **Access Options** dialog box or the mode that was set by an administrative policy.

Click **Open** to open the database for shared access in a multi-user environment so that you and other users can read and write to the database. Click the arrow next to the **Open** button and then click **Open Read-Only** to open the database for read-only access so that you can view but not edit it.

Other users can still read and write to the database.

Click the arrow next to the **Open** button and then click **Open Exclusive** to open the database with exclusive access. When you have a database open with exclusive access, anyone else who tries to open the database receives a “file already in use” message.

Click the arrow next to the **Open** button and then click **Open Exclusive ReadOnly** to open the database for read-only access. Other users can still open the database, but they are limited to read-only mode.

### Closing the Ms Access

You can simply close the database by clicking the close button on the database window

### Exiting Ms Access

After all present work have been saved , one can exit by :

Click the Ms Office button at the top left corner of the window and click exit Access

Or Using the keyboard shortcut : Alt + f4

### Loading Ms Access

From the windows desktop (window 7) , click the start button

Select All programs

Navigate to Ms Office and select Ms Access

### Creating a New file

Click the office button and then click New

Select Blank Database or select from local templates

### Saving A File

Click Office button

Click Save or use the keyboard Shortcut Crtl + S

### Open or Retrieve A File

Click the office button

Click the Open Button and select from the files you want to open .

Keyboard shortcut :Crtl + o