## LESSON 3 <br> APPLICATION SOFTWARE: SPREADSHEET

EDPM - GBSS EXTENSION

## SBEDENG

I. Identify various types of application software
2. Explain the purpose of a spreadsheet
3. Determine the appropriate software to be used to perform specific tasks
4. Create and format a spreadsheet/worksheets
5. Develop formulae to carry out calculation in a worksheet
6. Create charts and graphs using the data in worksheet

## APPLICATION SOFTWARE

- These are known as programmes and are used to complete a specific user task.
- Some task that application software may perform are typing letters, preparing purchase orders, managing contact lists, preparing budgets and financial statements, drawing, playing games, etc.


## INTRODUCTIONTO SPREADSHEET

- A spreadsheet can be defined as an electronic worksheet that is made of grid lines in which you enter data to be processed into useful information.
- These are special productivity tools used to arrange and analyze data/tabulation.
- Replaces the columnar pad/paper accounting worksheet, pencil and calculator.
- Manipulates numeric data.
- Ideal for working with lists of data.


## INTRODUCTIONTO SPREADSHEET

- Conducts automatic calculation and does complex calculations with great speed and efficiency/error-free calculations.
- Recalculates the results of formulae every times data changes.
- Allows sorting, search and extracting of data from a list.
- Allows formatting of a worksheet
- Creates graphs and charts to visualize the data.


## Examples of Spreadsheet software

- Visicalc - ${ }^{\text {st }}$ (Apple computers)
- Microsoft Office Excel used for sba and exam
- Lotus I-2-3 (IBM)
- Calc (Open Office Suite)
- Microsoft works
- Coral Quattro Pro
- QuickBooks

File extension: Ms Office/Works/Corel
Expense2019.xIsx or budget.xls (old versions) or Balance sheet.xIr or Invoice.wbl

## Some basic components of a spreadsheet

- Workbook
- Worksheet
- Columns
- Rows
- Cell
- Cell referencing
- Cell Range
- Formula
- Workbook this is the combination of multiple worksheets on one specific task. The entire Excel file. For e.g. a student data.xlsx

Default name (Book
I)


- The spreadsheet grids are made of columns and rows.
- The columns are indentified by letters and run up and down the page.
- The rows are identified by number and they run across the page.

- Cell - This is the intersection where a row and column meets.
- Cell reference - this is cell name or cell address.
- Cell Range- two or more adjoining cells.



## CREATING FORMULA

- Formula - This is a mathematical equation which the spreadsheet application use to bring a result of formula.



## CREATING FORMULA

In order to get a result you will need to:

- Create a formula or
- Select one from the function menu box



## How to enter a formula?

- The equal sign (=) must be present in all formulas.
- The formula must have the cell address of the cells you will work with and not the NOT the number.
- Select the cell where you want the result to appear.
- Write the formula.

$$
\begin{gathered}
\text { E.g. of a formula is }=\text { sum(AI:E5) } \\
O R=S U M(A 5-E 5)
\end{gathered}
$$

## SIGNS USED IN MICROSOFT EXCEL FORMULA:

| SIGNS | MEANING |
| :--- | :--- |
| * | MULTIPICATION |
| / | DIVISION |
| - | SUBTRACTION |
| + | ADDITION |
| $:$ | FROM-TO |

## CREATING CHARTS/GRAPHS



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## PIE CHART

## Comparison of Students by Gender



## Let's <br> Practice!

