

## PURPOSE AND OUTCOMES OF BNU1501

### 1 Purpose of the module

The purpose of this module is to equip students with the necessary numerical skills to solve everyday mathematical and financial problems by applying basic calculations.

### 2 Outcomes

#### **Learning outcome 1.**

Students will be able to demonstrate the skill to use mathematical calculations.

#### **Assessment criteria**

The skills to use mathematical calculations are demonstrated when

- operations on constants, variables and fractions are performed correctly.
- operations on ratios and percentages are performed correctly.

#### **Learning Outcome 2.**

Students will be able to demonstrate the skill to use measurement concepts.

#### **Assessment criteria**

The skills to use measurement concepts are demonstrated by

- determining the perimeter, area and volume of different objects correctly.
- converting measurement units correctly.
- using the correct units.

#### **Learning outcome 3.**

Students will be able to demonstrate the skill to use equations, formulas and graphs.

#### **Assessment criteria**

The skills to use equations, formulas and graphs are demonstrated when

- equations are solved correctly and formulas are manipulated correctly.
- graphs of one or more straight lines are drawn correctly on a set of axes.
- the equation of a straight line graph is found correctly.

**Learning outcome 4.**

Students will be able to solve everyday numerical problems related to purchasing, home improvement, etc. in order to make a meaningful decision. Students will be able to solve compound interest problems by using the prescribed SHARP EL FB financial calculator or the relevant formulas.

**Assessment criteria**

Financial problems are solved correctly by using

- simple interest
- compound interest
- annuities and
- amortisation

to model personal financial problems.

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