
SUBJECT:

MATHEMATICS B

STATUS: Authority Subject

CODE: SMB

COST: TBA

**COURSE
OVERVIEW:**

The Mathematics B course is designed to encourage students to develop positive attitudes towards Mathematics by approaches involving exploration, investigation, application of knowledge and skills, problem solving and communication. Students will be encouraged to mathematically model, to work systematically and logically, to conjecture and reflect, and to justify and communicate with and about mathematics.

General objectives are to develop and enhance:

1. Knowledge and procedures of Maths
2. Modelling and problem solving in Maths
3. Communication and justification with Mathematics

With a range of activities varying in application, technology, initiative and complexity.

**COURSE
STRUCTURE**

- Introduction to functions
- Rates of change
- Optimisation using derivatives
- Introduction to integration
- Periodic functions and applications
- Exponential and logarithmic functions
- Applied statistical analysis

**ASSESSMENT
TECHNIQUES:**

1. Extended modelling and problem solving tasks
2. Reports
3. Written Tasks (exams etc)

**SPECIAL
REQUIREMENTS:**

Students are expected to have a graphics calculator for their personal use throughout the year.

