1. FOREWORD

This syllabus has been prepared by the Mathematics Subject Committee (Secondary) of the Curriculum Development Council, Hong Kong.

It has been designed as a two-year course for Secondary 4-5 students whose interest and maturity in mathematics have developed to a level that enables them to benefit from more advanced mathematical studies at an early stage beginning at Secondary 4. Students embarking on this course should also be studying simultaneously the more basic course that follows the Syllabus for Mathematics (Forms I-V) (1985) prepared by the former Curriculum Development Committee, Hong Kong.

Some topics in the syllabus are built upon the contents of the Syllabus for Mathematics as foundations, but they are studied to a greater depth and breadth. Other topics are foreign to the Syllabus for Mathematics. It is in this sense that the Syllabus for Additional Mathematics is considered more advanced than the Syllabus for Mathematics.

The syllabus embraces all topics in the Additional Mathematics syllabus for the HKCEE 1995 and onwards and serves essentially as a guide to teachers. It aims to provide an indication on how and to what depth the topics may be treated through its “Time Ratio”, “Notes on Teaching” and suggested examples and exercises.

The overall objectives of the syllabus are to:

(1) extend students’ mathematical horizons beyond the Syllabus for Mathematics, provide a sound and inspiring introduction to more advanced mathematical concepts and processes, and provide better foundations to those students wishing to study sixth form mathematics,

(2) develop students’ understanding of mathematical principles and their ability to formulate and solve problems, and communicate results mathematically, and

(3) strengthen the cultivation of students’ critical mathematical thinking.

These objectives emphasize treating mathematics both as a tool and a way of thought.