

Bishop's College--3--

Third Year--Mathematics Option

Algebra--Exponential and logarithmic series. Summation of various types of series. Theory of equations. Determinants.

Trigonometry--Quadrilateral series. Much practice in trigonometrical technique. De Moivre's Theorem and its consequences. Elements of spherical geometry.

Geometry--Similitude. Coaxial circles. General Theorems on Concurrency. Inversion. Poles and Polars. Cross-ratio. The modern geometry of the triangle and circle. Geometrical properties of the sections of the cone.

Analytic Geometry--Straight line and circle (an extension of the work done in the Second Year) General Methods illustrated primarily with reference to curves of the second order.

Calculus--Standard forms with applications to areas, volumes, perimeters, maxima and minima, etc.

Mechanics--Elementary analytic mechanics with special attention to calculus methods. Elements of graphical statics.

Honours Grade I

Same subjects as for Mathematics option but extra work done in each section.

A student who has gained First class marks in First Year Mathematics, and who has also, (during his First Year) taken Second Year Mathematics as an extra subject, and passed an examination therein is allowed to read Honours Grade I in his Second Year.

Honours Grade II

This course can be taken in the Third Year by any student who has taken Honours Grade I in his Second Year. For details of this course see the Calendar.

Biology--First Year.

Lectures, three per week. The nature of organisms and their functions. Study of higher plant physiology. Functions of a higher animal. Foods. Environment. Classification. Study of representatives of the various plant and animal phyla. General biological problems. Practical work--Use of Compound microscope. Collateral reading and report of observation. Field and home work.