B.Sc - MATHEMATICS

UNIVERSITY OF CALCUTTA

CURRICULUM AND CREDIT FRAMEWORK (CCF)

PROGRAM SPECIFIC OUTCOMES

1. To understand the basic concepts and notions of mathematics and learn about various Theorems and Lemma.
2. To learn to differentiate between the understanding of theories and their applications.
3. To comprehend the different aspects of mathematics both theoretically and technically and analyze the developments in their economic context.
4. To learn different topics of mathematics.
5. To develop skills and learn to apply different results and theorems in various fields of science.
6. Understand the fundamentals of Mathematics
7. Develop and maintain strong problem-solving skills
8. Demonstrate clarity in communicating mathematical ideas using terminology and notation.

The course outcomes of different papers are presented below after completion of the course the student will be able to:

Course Code	Title	Credit	Course Outcomes
MATH-H-MC 1-1-Th (same as MATH-H-CC1-1-Th) Semester - 1	**Group A: Calculus [Marks:20] [16 classes]** **Group B: Geometry [Marks:35] [28 classes]** **Group C: Vector Analysis [Marks: 20] [16 classes]**	Total: 4 Credits Theory: 75 Tutorial: 25. Total: 100 Marks	• Understand the concepts of Calculus in different fields of science. • Acquire basic knowledge of the theories of differential calculus. • Understand the applications of differential calculus in various fields. • Understand the applications of vectorequations especially in Economics. • To make acquainted with the structures in geometry. • To comprehend the various results of geometry with algebra in the study of science.
MATH-H-MC 2 -2-Th (same as MATH-H-CC2-2-Th) Semester - 2	**Basic Algebra**	Total: 4 Credits Theory: 75 Tutorial: 25. Total: 100 Marks	• Understand the concepts of Algebra in different fields of science. • To integrate algebra with different branches of science in advanced stage.