Program outcomes

Name of the program: B.Sc. General

Upon successful completion of the B.Sc. (Hons) program, students will be able to –

PO1	Develop numerical and analytical skills and critical thinking that enable them to solve day to day problems
PO2	Develop scientific, communicative, and numerical skills and make rewarding careers in science and education by facing challenging competitive exam.
PO3	Gain scientific knowledge and skills which enables them to undertake further studies in an inter-disciplinary branch of science
PO4	Apply scientific knowledge of principles, concepts, and results to their day to day life
PO5	Enhance problem solving skills

Program specific outcomes

Name of the program: Mathematics (General)

PSO1	Recall basic facts of mathematics and display knowledge of conventions such as notations, terminology.
PSO2	Equipped with mathematical skills and techniques which can be applied in both academic and non-academic areas of work.
PSO3	Construct mathematical modelling of many physical phenomenon
PSO4	Face competitive examinations confidently using the acquired numerical skills and knowledges
PSO5	Develop interest and a positive attitude towards mathematics as an interesting and valuable subject of study.

Course outcomes

Semester – I

Course code: BMG1CC1a

Course name: Differential Calculus

Sl.No.	Course outcomes	PSO addressed
CO1	Recall the idea of limit, continuity, derivative and apply these in solving mathematical problems	PSO1
CO2	Describe Leibnitz theorem and apply it to solve problems	PSO4
CO3	Trace different types of curves and explain their characteristics	PSO4
CO4	Describe and apply Taylor's, Maclaurin's series for various functions	PSO2

Semester – II

Course code: BMG2CC1B

Course name: Differential Equations

Sl.No.	Course outcomes	PSO addressed
CO1	Formulate mathematical models of real-life scenarios using differential equations and solve it using different methods.	PSO3, PSO5
CO2	Test the existence and uniqueness of a solution of a differential equation.	PSO4
CO3	Classify different types of differential equations.	PSO1
CO4	Solve problems of interdisciplinary branches like, physics, computer science which are based on differential equations	PSO4, PSO5
CO5	Examination the convexity and concavity of a function	PSO2

Semester – III

Course code: BMG3CC1C

Course name: Real Analysis

Sl.No.	Course outcomes	PSO addressed
CO1	Explain the primary concepts of sets, sequences, and series of real numbers	PSO2
CO2	Understand the concepts of convergence of sequences and series	PSO1
CO3	Understand the importance of convergence of sequence and series	PSO1
CO4	Find the sum of infinite terms with different methods using the concepts of sequence and series	PSO4