DEPARTMENT OF MATHEMATICS

COURSE OBJECTIVES AND OUTCOMES

CBCS SYSTEM

Course Title	Title	Credits	Course objectives	Course outcomes
SEMESTER I				
CC1/GE1(Sem-1) Paper Code (Theoretical) : MTM-G-CC-1-1-TH / MTM-G-GE-1-1-TH Paper Code (Tutorial):MTM-G-CC-1-1-TU / MTM-	**Unit-1 : Algebra-I.** **Unit-2 : Differential Calculus-I.** **Unit-3 : Differential Equation-I.** **Unit-4 : Coordinate Geometry**	Credits : 5+1*=6 *1 Credit for Tutorial.	• Understand the concepts of Algebra 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 differential equations	• Students understood the concepts of Algebra. • Students understood the applications of differential calculus in various fields. • Students understood the applications of differential equations. • Students get well acquainted with geometry.

G-GE-1-1-TU			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.	
SEMESTER II				
Paper Code (Theoretical) : MTM-G-CC-2-2-TH / MTM-G-GE-2-2-TH Paper Code (Tutorial):MTM-G-CC-2-2-TU /	**Unit-1 : Differential Calculus-II** **Unit-2 : Differential Equation-II** **Unit-3 : Vector Algebra** **Unit-4 : Discrete Maths**	5 + 1	• Acquire advanced knowledge of the theories of differential calculus. • Understand the applications of advanced differential calculus in various fields. • Understand the advanced applications of differential	• Students acquired knowledge of the theories of differential calculus. • Students get well acquainted with the applications of advanced differential calculus . • Students understoodthe advanced applications of differential equations. • Students learnt the

MTM-G-GE-2-2-TU			equations especially in Economics. • To make acquainted with the structures of vectors in geometry. • To comprehend the various results of geometry with algebra in the study of science. • To integrate discrete structures with number theory.	structures of vectors in geometry. • Students were able to integrate discrete structures with number theory.
SEMESTER III				
CC3/GE3 (Sem-3) Paper Code (Theoret	**Unit-1 : Integral Calculus** **Unit-2 : Numerical Methods**	5+1	• Acquire knowledge of integral calculus and apply it on various fields of science. • To relate integral calculus with	• Students acquired knowledge of integral calculus and applied it on various fields of science. • Students were able to relate integral

ical) : MTM-G-CC-3-3-TH / MTM-G-GE-3-3-TH Paper Code (Tutorial):MTM-G-CC-3-3-TU / MTM-G-GE-3-3-TU	**Unit-3 : Linear Programming**		economics. • To understand the significance of approximation in day to day calculations. • To integrate integral calculus with numerical analysis. • Comprehend the emergence of Business applications. • Understand LPP in business management approach	calculus with economics. • Students were able to analyze the significance of approximation in day to day calculations. • Students learnt to integrate integral calculus with numerical analysis. • Students learnt to comprehend the emergence of Business applications. • Students understood LPP in business management approach
SMESTER IV				

CC4/GE4 (Sem-4) Paper Code (Theoretical) : MTM-G-CC-4-4-TH / MTM-G-GE-4-4-TH Paper Code (Tutorial):MTM-G-CC-4-4-TU / MTM-G-GE-4-4-TU	**Unit-1 : Algebra-II** **Unit-2 : Computer Science & Programming** **Unit-3 : Probability & Statistics**	5+1	• Understand the concepts of advanced Algebra in different fields of science. • To integrate algebra with different branches of science in advanced stage. • Comprehend the development of computer science and programming. • Analyse different algorithms and programmes • Integrate algorithms with different aspects of Mathematics. • Applications of Probability and statistics in Economics, Psychology, Education and Geography	• Students understood the concepts of advanced Algebra in different fields of science. • Students were able to integrate algebra with different branches of science in advanced stage. • Students were able to comprehend the development of computer science and programming. • Students analysed different algorithms and programmes • Students learnt to integrate algorithms with different aspects of Mathematics. • Students learnt applications of Probability and statistics in Economics, Psychology, Education and Geography.