BACHELOR OF SCIENCE IN MATHEMATICS

Programme Specific Outcome

PSO 1 - By the end of the second semester, the students should have attained a foundation in basic Mathematics and other relevant subjects to complement the core for their future courses.

PSO 2 - By the end of the fourth semester, the students should have been introduced to powerful tools for tackling a wide range of topics in Calculus, Theory of Equations and Geometry. They should have been familiar with additional relevant mathematical techniques and other relevant subjects to complement the core.

PSO 3 - By the end of sixth semester, the students should have covered a range of topics in almost all areas of Mathematics, and had experience of independent works such as project, seminar etc.

PSO 4 - A brief introduction of theory of Equations is also included. These topics are foundations of most areas of modern mathematics and are applied frequently in the succeeding semesters.

SEMESTER & COURSE CODE	
SEMESTER1	CO-1: construct mathematical arguments on this topic
MM1CRT01	CO-2: understand and how to construct correct
Foundation of Mathematics	mathematical arguments.
SEMESTER 2	CO-1 establisha correspondence between geometric
MM2CRT02	curves and algebraic equations .
Analytic Geometry, Trigonometry and Differential Calculus	CO-2 Recognize the equation, vertex, focus, directrix and sketch the graph of corresponding equation.
	CO-1 Expand a function using Taylor's and
SEMESTER 3	Maclaurin's series
MM3CRT03	CO-2 Determine the length of an arc.
Calculus	CO-3 Learn about concavity, points of inflexion, curvature, evolutes and involutes.

Course Outcome

	Conceive the concept of asymptotes and obtain their	
	equations and learn about envelopes	
SEMESTER 4	CO 1 Define vector equation for lines and planes	
MM4CRT04	CO-1 Define vector equation for fines and planes.	
	CO-2 Define and interpret the concepts of divisibility,	
Vector Calculus, Theory of Numbers	congruence, greatest common divisor and prime.	
& Laplace Transform		
SEMESTER 5		
SEIVILSTER 5		
MM5CPT05	CO-1 Understand the basic topological properties of	
WINISCK 105	subsets of the real numbers.	
Mathematical analysis	CO_2 Analyse the real line as a complete ordered field	
	CO-2 Anaryse the real line as a complete, ordered field	
MM5CRT06	CO-1 Understands different types of differential	
	equations	
Differential Equations	quinons	
	CO-1 Analyze properties implied by the definitions of	
	groups and rings. Analyze and demonstrate examples	
MMSCR107	of ideals and quotient rings.	
Abstract Algebra		
	CO-2 Solve problems from the Algebra related to	
	Group Theory and basic King Theory.	
MM5CDT09		
MMSCK108	CO-1: define the scope and importance of	
Environmental Mathematics and	Multidisciplinary nature of environmental studies, the	
Human Rights	natural resources and ecosystem.	
	CO-1: understand types of numbers and to improve	
MM50P102	arithmetic skill, Understands basic mathematics. With	
Applicable Mathematics	emphasis on algebra, Familiar with short cut methods	
	to solve problems.	
MMCCDT00	CO-1: understand the concept of continuity and	
	uniform continuity of functions. To analyze the	
Real Analysis	various properties of continuous functions	
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MM6CRT10	CO-1:Understand various aspects related to graphs	

Graph Theory and Metric Spaces	CO-2:Recognize properties of graphs
	CO-3: Analyze Model and solve real-world problems using graphs and trees, both quantitatively and qualitatively
	CO-1:Identify analytic functions, harmonic functions
MM6CRT11	and elementary functions
Complex Analysis	CO-2:Understand the significance of differentiability for complex functions and be familiar with the Cauchy-Riemann equations
MM6CRT12	CO-1:Solve systems of linear equations
Linear Algebra	CO-2:Analyze vectors in <i>Rn</i> geometrically and algebraically