## **B.Sc** programme outcome

Students are expected to gain knowledge in theory as well practical aspects in different subject areas which include Mathematics, Physics , Chemistry and Computer science and to pursue multi and interdisciplinary service career in future.

## B.Sc Mathematics programme outcome(programme specific outcome)

On completion of the programme students should have gained in-depth knowledge of theoretical aspects coupled with application of theory to real life problems. Outcome of the programme is to enhance employability and to bridge the gap between the skill requirements of the employer and the competency of the students.

## Course specific outcome

S.No	Sub code	Sub name	Course specific outcome
1	1MM01b	Algebra &	Knowledge on conics ,proficiency in Cartesian
		analytical	coordinates and polar coordinates, knowledge on
		geometry - 2d	equations, matrices and types of series
2	1MM02	Differential	Knowledge on applications of differentiation.
		Calculus	
3	1ANM1a	Allied Numerical	Knowledge to solve transcedental equations, ode and
		Analysis I	numerical integration
4	2MM03b	Trigonometry	Basics concepts in trigonometry and training in 3
		&Solid Geometry	dimensional surfaces like plane, sphere cone &
			cylinder
5	2MM04	Integral Calculus	Applications of integration in finding area, volume
			etc
6	2ANM2a	Allied Numerical	Numerical solutions to simultaneous linear equations
		Analysis II	and ode.
7	2MMP1	Main Practical I	Able to find to summation of various series and
			matrices
8	3MM05a	Differential	Able to construct and solve ode and pde for the
		Equations	given situation.
9	3MM06	Discrete	Understand mathematical logic concepts and basic
		Mathematics	intro on graph theory and group theory
10	3ASM1a	Allied	Knowledge on data collection and statistical methods
		Mathematical	to be used as a tool in the analysis of problems in
		Statistics I	nature both physical and human studies.
11	4MM07b	Vectors &Fourier	Knowledge on vector differentiation and integration
		Transforms	,fourier series, transforms and its applications
12	4MM08c	Mathematical	Deep understanding and in-depth knowledge in the
		Analysis I	fundamental concepts of the underlying theory to
			facilitate higher studies and extensive research
13	4MM09a	Programming in C	Formulate programs in C Language
14	4ASM2a	Allied	Knowledge on data collection and statistical methods
		Mathematical	to be used as a tool in the analysis of problems in
		Statistics II	nature both physical and human studies.
15	4ASMPV	Allied Project &	Gain competence in data collection, analysis and
		Viva	interpretation

16	4MMP2	Main Practical II	Knowledge to handle problems in sequence and series, vectors and differential equations
17	4MMP3	Maing Practical	Proficiency in drafting programs in C language
18	5MM10	Algebraic structures	Able to understand concepts in algebraic structures like groups and rings
19	5MM11c	Mathematical Analysis II	Able to handle sequence of numbers and functions and series.
20	5MM12	Statics	Understand various forces acting on rigid bodies and to compute centre of masses of various objects
21	5MM13a	Data Structures & Algorithms	Knowledge in writing mathematical algorithms for employability purpose.
22	5EM01a	Number Theory	To give an introduction to elementary number theory to predict the outcome of experiments and to study the relationship between different sorts of numbers.
23	5EM02	Linear Programming	Systematics and analytical approach in decision making and problem solving
24	6MM14a	Linear Algebra	Knowledge gained on this course involving algebraic structures like vector spaces and inner product spaces will be helpful for the students to pursues higher studies in mathematics
25	6MM15	Complex Variables	They will be able to understand concept of continuity, derivative and analyticity and integration of complex functions over contours.
26	6MM16	Dynamics	Knowledge on projectiles and moment of inertia of various objects
27	6EM03a	Optimization Techniques	Knowledge on integer programming and inventory control and project scheduling
28	6EM04	Graph Theory	After completing the students will be able to apply concepts of graph in interdisciplinary subjects.