Course Outcome **F. Y. B. Sc. (Mathematics)** **Semester –I and II**	
Name of the Course code	Course Outcomes
USMT101	1. Students will able to gain Knowledge of fundamental concepts of real numbers. 2. Students will verify the value of the limit of a function at a point using the definition of the limit. 3. Students will Learn to check function is continuous understand the consequences of the intermediate value theorem for continuous functions
USMT102	1. Students can able to learn to solve system of linear equation. 2. Students will able to find roots of polynomial over rational.
USMTP01	1. Students can solve problem solve on algebra and calculus. 2. Students can able to utilize Knowledge of Mathematics to its applications.
USMT201	1. Students will be to understand differentiation and fundamental Theorem in differentiation and various rules. 2. Students Geometrical representation and problem solving on MVT and Rolls theorem.
USMT202	1. Students will able to solve system of linear equation. 2. Students will understand Vector spaces 3. Students will able to solve problems on basis and linear transformation.
USMTP02	1. Problem solve on Calculus II and Algebra II

Course Outcome **S. Y. B. Sc. (Mathematics)** **Semester- III and IV**	
Name of the Course code	Course Outcomes
USMT301	1. Students will able to understand fundamental concepts function. 2. Students are able to solve problems on differentiation 3. Students are able to study Application of differentiation
USMT302	1. Students able to study of linear transformation and matrices. 2. Students able to solving problem on determinant and its application. 3. Study of inner product and solving problems on inner product.
USMT303	1. Students able to study of permutation and recurrence relation. 2. Students are able to solve problems on preliminary counting's. 3. Study of advance counting 4. Able to solve problems on counting principle.
USMTP03	1. Solving problem on based on USMT 301 , USMT 302 and USMT 303
USMT401	1. Students can able to study of Riemann Integration. 2. Solving problem on Riemann Integration. 3. Study of types of integrals, indefinite integrals and definite integrals. 4. Introduction of Beta and Gamma function.
USMT402	1. Students will able to study of groups and subgroups. 2. Students will study of cyclic groups and subgroups. 3. Introduction Lagrange's theorem 4. Students will study of group homomorphisms.
USMT403	1. Students can able to solve First order First degree differential equation by various methods. 2. Students can able to solve second order linear differential equation i.e. homogeneous and non-homogeneous 3. Students can solve the problems on linear system of ordinary differential equation. 4. Students can solve problems on partial differential equations.
USMTP04	1. Students Solving problem on USMT 401, USMT 402 and USMT 403

Course Outcome **T. Y. B. Sc. (Mathematics)** **Semester -V**	
Name of the Course code	Course Outcomes
USMT501	1. Students can able to solve problems on multiple integrals. 2. Students can solve problems on line integrals. 3. Students can able to solve problems on surface integrals.
USMT502	1. Introduction to vector space and subspace. 2. Use computational techniques and algebraic skills essential for the study of systems of Linear equations, matrix algebra, vector spaces, eigenvalues and eigenvectors, Orthogonally and Diagonalization.
USMT503	1. Able to understand the Euclidean distance function on R^n 2. Students will understand the geometric meaning of each of the metric space 3. Students can understand between open and closed balls in a metric space 4. Students can understand convergence for sequences in a metric space.
USMT5C4	1. Students can able to understand basics of graphs 2. Students can able to solve problems on trees. 3. Students can solve problems on Eulerian and Hamiltonian graphs
USMTP05	1. Practical's based on USMT501 and USMT 502
USMTP06	1. Practical's based on USMT 503 and USMT USMT5C4

Course Outcome **T. Y. B. Sc. (Mathematics)** **Semester-VI**	
Course code	Course Outcomes
USMT601	1. Students are able to understand complex numbers and its operation. 2. Students are able to solve problems on Cauchy integral formula. 3. Students can solve problems on power series and Laurent power series.
USMT602	1. Understand the importance of algebraic properties with regard to working within various number systems 2. Students are able to understand groups and rings. 3. Students can solve problems on group and ring homomorphisms.
USMT603	1. Students are able to understand metric spaces. 2. Students are able to solve problems on connected sets. 3. Students are able to solve problems on sequences and series of the functions.
USMT6C4	1. Students are able to understand colorings of the graphs. 2. Students are able to solve problems on types of graphs. 3. Students will understand Combinatorics.
USMTP07	1. Practical's based on USMT 601 and USMT 602
USMTP08	1. Practical's based on USMT 603 and USMT6C4.