Course	Expected outcome		
MTMACOR01T:Calculus	Students will be able to get an idea with		
	Plotting of graphs of function		
	• Plotting the graphs of polynomial of degree 4 and 5,the		
	derivative graph, the second derivative graph and		
	comparing them		
	Sketching parametric curves		
	• Obtaining surface of revolution of curves		
MTMACOR07P: Numerical	Familiarity with		
Methods Lab	• Linear algebraic computations, data analysis, signal		
	processing		
	Optimization		
	• Numerical solutions of ordinary differential equations		
	• Ouadrature, 2D & 3D graphics.		
	• Types of scientific computation.		
MTMADSE01T:Linear	Students will be able to get an idea with		
Programming	• By converting a primal problem into dual		
5 5	• Gives additional information as to how the optimal solution		
	changes as a result of the changes in the coefficients.		
	• Economics interpretation of dual helps the management in		
	making future decisions.		
	• Duality is used to solve L.P problems in which the initial		
	solution in infeasible.		
MTMACOR13T: Metric	Introduction to		
Spaces and Complex Analysis	Closeness between points in a set		
	• Limits, convergence, open sets and closed sets.		
	• Characterization of Banach spaces, Fixed point theorem		
	• Demonstrate understanding of the basic concepts		
	underlying complex analysis		
	• The study of holomorphic functions and their most		
	important basic properties.		
MTMGCOR01T	Students will be able to get an idea with		
&	• A secant line is that its slope can be calculated directly.		
MTMHGEC01T	• Limits, continuity, derivatives and derivatives applications		
: Differential Calculus	• Finding a function is increasing or decreasing functions in a		
	graph		
	• Maximum and minimum value of a graph.		
MTMSSEC01M: C-	Familiarity with		
Programming Language	• The first operating system to be developed using a high		
	level programming language		
	• Design the system software like operating system and		
	compiler.		
	• Creating computer applications.		
	• Developing system applications.		
MTMSSEC02M : Logic and	Familiarity with		
Sets	• Definition of sets and different types of sets		
	Subset and their properties		
	• Relation and partition on Sets and their relation		
	Definition of Proposition with connectives		
	• D.N. F and C.N.F with examples		
MTMGCOR04T	Introduction to		
&	• Definition of groups and different type of groups.		
MTMHGEC04T	• Subgroups and their properties.		
: Algebra			

•	•	Cyclic groups and Permutation groups.
•	•	Finite abelian group and their property.
	•	Rings and fields with classification.

Course	Expected outcome
MTMACOR02T: Algebra	Students will be able to get an idea with
	• Relation and Partition on Sets and their
	relation.
	• Existence of solution of system of Linear
	equations.
	Basic concept of Matrix theory.
MTMACOR03T: Real Analysis	Familiarity with
	<ul> <li>Classification of subsets of Real numbers.</li> <li>Idea of onen act and aloged act in D with</li> </ul>
	<ul> <li>Idea of open set and closed set in K with various result</li> </ul>
	• The concept of Series and Sequence and
	their convergence.
MTMACOR06T: Group Theory-I	Introduction to
	• Definition of groups and different type of
	groups.
	• Subgroups and their properties.
	• Cyclic groups and Permutation groups.
	• Finite abelian group and their properties.
	Group homomorphism.
MIMACORIOI: Ring Theory &	Familiarity with
Linear Algebra-i	<ul> <li>Kings and Fleids with classification.</li> <li>Vector spaces and their subspaces with</li> </ul>
	• vector spaces and then subspaces with geometrical concepts
	<ul> <li>Matrix basically is a representation of</li> </ul>
	linear function on Vector spaces.
MTMACOR12T: Group Theory-II	Students will be able to learn an idea with
	<ul> <li>Application of factor groups to</li> </ul>
	automorphism groups.
	• Fundamental Theorem of finite abelian
	group.
	<ul> <li>Application of group actions.</li> <li>Application of Sulow's Theorem</li> </ul>
	• Application of Sylow's Theorem.
MTMACOR14T: Ring Theory &	Students will be able to get an idea with
Linear Algebra-II	Reducibility and irreducibility test of
	polynomials.
	• Diagonalizability of square matrices.
	Gram-Schmidt orthogonalisation process.
	• Minimal solution of system of linear
	equations.
MTMGCOR03T: Real Analysis	Familiarity with
WITWOCOROJI, Kai Anarysis	Classification of subsets of Real numbers
	• Idea of open set and closed set in R with
	various result.
	• The concept of Series and Sequence and
	their convergence