MATHEMATICS							
MAJOR COURSE OUTCOMES							
YEAR	SEMESTER	COURSE CODE	TITLE OF THE COURSE	COURSE OUTCOMES			
Ι	Ι	1	Essentials and Applications of Mathematical, Physical & Chemical Sciences	Apply critical thinking skills to solve complex problems involving complex numbers, Trigonometric ratios, vectors and statistical measures.			
		2	Advances in Mathematical, Physical & Chemical Sciences	To understand different forms of straight lines, solving problems involving limits, differentitation, integration and matrices.			
	н	3	Differential Equations & Problem solving sessions	To understand the first and higher order linear differential Equations also apply the appropriate methods for finding the solutions of these equations			
		4	Analytical Solid Geometry & Problem solving sessions	To understand the entire Idea of 3-Dimensional Plane, Line, Sphere & Cone system and their properties also known that to finding the solution in analytical methods.			
II	III	5	Group Theory & Problem solving sessions	To acquire the basic knowledge and structure of groups, understand the concept of Normal Subgroups, Homomorphisms, Permutation and Cyclic groups.			
		6	Numerical methods & Problem solving sessions	To understand the concepts of differences, Operators and difference between them also known to solve Algebraic and Transcendental equations and understand the concept of Curve fitting.			
		7	Laplace Transforms & Problem Solving Sessions	To understand the definition and properties of Laplace Transforms & Inverse Laplace Transforms also solving problems of them. To get an idea of First and Second shifting theorems and Convolution and Heavisides theorems.			
		8	Special Functions & Problem Solving Sessions	To understand the Beta & Gamma functions, relation between these Two functions and Orthogonal Properties of Chebyshev polynomials, recurrence relations also find the solutions of power series, solutions of O.D., Hermite polynomials, Legendre polynomials and Bessels Equations.			
	IV	9	Ring Theory & Problem Solving Sessions	To Acquire the basic knowledge of Rings, Fields and Integral Domains, to understand the concept of Subrings, Ideals, Homomorphisms and Polynomial rings.			
		10	Introduction to Real Analysis & Problem Solving Sessions	To Know Real Number system, Real valued functions and Concepts of Sequences/ Series of their convergence also understand to test the continuity, Differentiability and Rieman integration of functions.			
		11	Integral Transforms & Problem Solving Sessions	To understand the application of Laplace Transform to solve O.D.Es , Simultaneous D.Es and Integral Equations also basic knowledge of Fourier Transforms.			
III	V	12	Linear Algebra & Problem Solving Sessions	To under stand the Concepts of Vector Spaces, Sub Spaces, Basis, Dimensional, L.T. and their properties also Cayley-Hamilton and finding the inverse of a matrix to learn inner product spaces and its orthogonality.			
		13	Vector Calculus & Problem Solving Sessions	To understand the concepts of double, Triple integrals and finding the surface and volume integrals also determine gradient, divergence and Curl of a vector function also evaluate line, surface and volume integrals.			
		14 B	Advanced Numerical Methods & Problem Solving Sessions	To find derivatives using various difference formulae, understand the process of Numerical integration also solve simultaneous linear system of equations and Numerical solutions of O.D.Es			
		15 A	Number Theory & Problem Solving Sessions	To understand the Fundamental Theorem of Arithmetic, Mobius function , Euler Quotient function, Mangoldt function, Liouvilles function, Divisor function and the generalized convolutions.			
	VI		Long Te	erm Internship / Apprenticeship			

MINOR COURSE OUTCOMES						
YEAR	SEMESTER	COURSE CODE	TITLE OF THE COURSE	COURSE OUTCOMES		
Ι	ΙΙ	1	Differential Equations & Problem solving sessions	To understand the first and higher order linear differential Equations also apply the appropriate methods for finding the solutions of these equations		
II	III	2	Group Theory & Problem solving sessions	To acquire the basic knowledge and structure of groups, understand the concept of Normal Subgroups, Homomorphisms, Permutation and Cyclic groups.		
	IV	3	Ring Theory & Problem Solving Sessions	To Acquire the basic knowledge of Rings, Fields and Integral Domains, to understand the concept of Subrings, Ideals, Homomorphisms and Polynomial rings.		
		4	Introduction to Real Analysis & Problem Solving Sessions	To Know Real Number system, Real valued functions and Concepts of Sequences/ Series of their convergence also understand to test the continuity, Differentiability and Rieman integration of functions.		
III	V	5	Linear Algebra & Problem Solving Sessions	To under stand the Concepts of Vector Spaces, Sub Spaces, Basis, Dimensional, L.T. and their properties also Cayley-Hamilton and finding the inverse of a matrix to learn inner product spaces and its orthogonality.		
		6	Vector Calculus & Problem Solving Sessions	To understand the concepts of double, Triple integrals and finding the surface and volume integrals also determine gradient, divergence and Curl of a vector function also evaluate line, surface and volume integrals.		

LIFE SKILLS COURSE OUTCOMES					
Ι	Ι	3	Analytical Skills	To understand the Basic Concepts of Arithmetic Abililty, Quantitative Ability, Logical Reasoning, Business Computations and Data interpretation and Obtain the Associated Skills.	