Course Code	GP 103	Name	Course Name Mathematics I			
Credits	3	Time		Tutorial &class		
Status	Core	Allocation	Lecture	room work	Practical	Assignment
Prerequisite	None	(hrs)	36	18		
Aim	To train the students to solve some basic math problems arising in the areas of elementary calculus, coordinate geometry, complex numbers and infinite series. Give an exposure to functions of several variables and differential equations.					
Learning Outcomes (LOs)	By the end of this course, students should be able to: LO1. Identify, analyze and understand the mathematical concepts of elementary calculus, coordinate geometry, complex numbers and infinite series in this course. LO2. Relate the course to any of the engineering disciplines. LO3. Analyze and solve a given basic mathematical problem as an individual. LO4. Do self-studies in some of the advance topics in mathematics. • Sets and their Applications					
Course Outline	Real N Its pro Function Concept function Metho 2-D Concept function Metho 2-D Concept function Arevie Application Function Sequer diverge Recurrent Related Infinite Standa series, Real Popower approx Special Hyperb Integra Function Func	umber System: perties and the ons of a Single V ot of a function on, Maximum ar ons, Indetermina d of mathemati ordinate Geomet can coordinate s nate system in 2 clidean Geomet clidean Coordin ex Numbers: w, Polar coordin ex numbers and on of positive in once (monotonic ence and oscillat ence Relation: d to sequence, N Series: rd examples of Absolute and co ower Series: series of function imation, -functions: olic functions tions on of Several Val	real axis, de l'ariable: , Description de minimum ate forms , (cal induction etry: ystem, Con t-D, Curvatury: ate Geomei nates of a cometric equalits operation of a second to on f(x), Binderiables:	ic sections, Polar, in irre, radius and cent try: complex number, Do tions, Loci in comp ons and bounded seque quence, Examples of computation of root	of functions, Limiting bel tiability, Leit intrinsic and the tre of curvation emoivre's the elex plane, Europe of common sets of an equal convergence,	naviour of conitz theorem, the padal ure eorem, color form of gence, equences tion Alternating

	Introduction to Differential Equations: Examples, Motion in a resistive medium (simp techniques for first order differential equation)	
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84-4b-d-6	Mid semester exam	30%
Method of Assessment	Mid semester exam Tutorials/ Assignments	30% 10%