

GUJARAT TECHNOLOGICAL UNIVERSITY

B.Pharm

SEMESTER: VIII

Subject Name: Elementary Mathematics**Subject Code: 2280017**

Teaching Scheme				Evaluation Scheme			
Theory	Tutorial	Practical	Total	Theory		Practical	
				External	Internal	External	Internal
3	0	0	3	80	20	0	0

No.	Course Content	Hrs (45)
1.	Algebra: Equation reducible to quadratic, simultaneous (linear & quadratic), Determinants, properties of solution of simultaneous equations by Cramer's rule, matrices, definition of special kind of matrices, arithmetic operations on matrices, pharmaceutical applications of determinants & matrices, Evaluation of En1, En2 & En3 mensuration & its pharmaceutical applications.	8
2.	Measures of dispersion: Range, average deviation, standard deviation, probability & probability distribution.	6
3.	Permutation, combination, AP and GP	8
4.	Trigonometry: Measurement of angle, T-ratios, addition, subtraction & transformation formulae, Application of logarithm in pharmaceutical computation.	7
5.	Analytical plans geometry: Distance between two points in plane, areas of triangle, equation of straight line, slope of line, intercept of line, linear inequality for two variables.	8
6.	Calculus: Differential: Definition, standard derivative & use of standard derivative Integral: Difference between differential & integral, standard integral, use of standard integral Differential equation: Order, degree, variable separable method, homogenous, linear differential equation, pharmaceutical applications on differential equation.	8

References Books:

1. Remedial Mathematics by Gupta & Prabhakar; Pragati Prakashan
2. Remedial Mathematics for Pharmacy by R.C.Kachot; Mahajan Prakashan
3. College Mathematics by Kai L. NILSON, Barnes & Noble inc.