



# GUJARAT TECHNOLOGICAL UNIVERSITY

## BACHELOR OF ENGINEERING SYLLABUS

1<sup>st</sup> Year, Subject Code : 3110014

Semester/Year	: 1
Category of the Course	: Basic Science Course
Subject Name & Code	: Mathematics - I (3110014)

Type of course : Engineering Science

Prerequisite : Algebra, Trigonometry, Geometry.

**Rationale :** The study of rate of changes, understanding to compute area, volume and express the function in terms of series, to apply matrix algebra.

**Teaching and Examination Scheme :**

Teaching Scheme			Credits	Examination Marks				Total Marks
L	T	P		Theory Marks		Practical Marks		
				ESE (E)	PA (M)	ESE (V)	PA (I)	
3	2	0	5	70	30	0	0	100

**Content:**

Sr. No.	Content	Total Hrs	% Weightage
01	Indeterminate Forms and L'Hôpital's Rule.	01	15 %
	Improper Integrals, Convergence and divergence of the integrals, Beta and Gamma functions and their properties.	03	
	Applications of definite integral, Volume using cross-sections, Length of plane curves, Areas of Surfaces of Revolution	03	
02	Convergence and divergence of sequences, The Sandwich Theorem for Sequences, The Continuous Function Theorem for Sequences, Bounded Monotonic Sequences, Convergence and divergence of an infinite series, geometric series, telescoping series, $n^{\text{th}}$ term test for divergent series, Combining series, Harmonic Series, Integral test, The p - series, The Comparison test, The Limit Comparison test, Ratio test, Raabe's Test, Root test, Alternating series test, Absolute and Conditional convergence, Power series, Radius of convergence of a power series, Taylor and Maclaurin series.	08	20 %
03	Fourier Series of $2\pi$ periodic functions, Dirichlet's conditions for representation by a Fourier series, Orthogonality of the trigonometric system, Fourier Series of a function of period $2\pi$ , Fourier Series of even and odd functions, Half range expansions.	04	10 %

# Gtu Physics Syllabus 2015

**R Sanford**



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