Tolani College of Commerce (Autonomous)

तोलानी वाणिज्य महाविद्यालय (स्वायत्त)

(Sponsored and Managed by Tolani Education Society, Mumbai - 400 021)
(Recognised Linguistic (Sindhi) Minority Institution, Affiliated to University of Mumbai)
Re-Accredited (3rd Cycle) by N.A.A.C. with 'A' Grade (CGPA 3.03)

Knowledge is Supreme

150-151, SHER-E-PUNJAB SOCIETY,
GURU GOBIND SINGH ROAD,
ANDHERI (EAST), MUMBAI-400 093.

Tel.   : (022) 6153 5455
Fax   : (022) 6153 5456
E-mail   : tcc@tolani.edu
Website : tcc.tolani.edu

Name of the Department/ Programme	Department of Business Mathematics 1) Bachelor of Commerce Programme				
Name of the Course	Open Elective Courses (OE): Business Mathematics – I				
Semester	I				
Number of Credits	2				
Number of Lectures	30				
Lecture Duration	60 minutes per lecture				
Total Marks:	CE	20	SEE	30	Total	50

Learning Objectives of the Course

Sr.No.	Objectives
LOC1	To understand the basic concepts of shares and Mutual Funds, measures of central tendency, measures of dispersion
LOC2	To learn the definitions of the terms used in share market
LOC3	To understand the applications of probabilities, shares and Mutual Funds.

Learning Outcomes of the Course

Sr. No.	Outcomes
CO1	Understand the foundations of mathematics.
CO2	Be able to perform basic computations in higher mathematics.
CO3	Develop and maintain problem-solving skills

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Module Number	Syllabus in Details	Number of Lectures
I	**Shares:** Concept of share, face value, market value, dividend, equity shares, preferential shares, bonus shares. Simple examples. **Mutual Funds:** Simple problems on calculation of Net income after considering entry load, dividend, change in Net Asset Value (N.A.V.) and exit load. Averaging of price under the Systematic Investment Plan	10
II	**Measures of Central Tendencies:** Definition of Average, Types of Averages: Arithmetic Mean, Median, and Mode for grouped as well as ungrouped data. Quartiles, Deciles and Percentiles. **Measures of Dispersions:** Concept and idea of dispersion. Various measures Range, Quartile Deviation, Mean Deviation, Standard Deviation, Variance, Combined Variance.	10
III	**Probability Theory:** Concept of random experiment/trial and possible outcomes; Sample Space and Discrete Sample Space; Events their types, Algebra of Events, Mutually Exclusive and Exhaustive Events, Complimentary events. Classical definition of Probability, Addition theorem (without proof), conditional probability. Independence of Events: $P(A \cap B) = P(A)\, P(B)$. Simple examples.	10

Scheme of Evaluation Pattern
Table 1A: Scheme of Continuous Evaluation (CE)
Scheme of Evaluation Pattern

Sub-components	Maximum Marks	Conditions for passing
1) Written assignment	10	a) A learner must be present for each of the sub-components.
2) MCQ Based Test	10	
Total	20	b) The subtotal of both sub-components must be minimum 08 marks

Table 1B: Scheme of Semester End Examination (SEE) Evaluation

Question Paper Pattern for Semester End Examination (SEE)

Maximum Marks:30   Minimum Marks to Pass:12   Duration:1 Hour

Note: All questions are compulsory. Each question has an internal choice.

Question Number		Nature of Questions	Maximum Marks
1)		Attempt any 2 of the following: (From Module I)	10
	a)		
	b)		
	c)		
2)		Attempt any 2 of the following: (From Module II)	10
	a)		
	b)		
	c)		
3)		Attempt any 2 of the following: (From Module III)	10
	a)		
	b)		
	c)		