UNIVERSITY OF MADRAS

BACHELOR OF COMPUTER APPLICATIONS (BCA) DEGREE PROGRAMME

SYLLABUS WITH EFFECT FROM 2023-2024

Year: I Semester: II

Quantitative Aptitude	120S2A
Common for B.C.A. , B.ScSA , B.ScCSc , B.ScCSc-wAI , B.ScCSc-wDS	
Credits 2	Lecture Hours: 2 per week
Learning Objectives: (for teachers: what they have to do in the cl To improve the quantitative skills of the students To prepare the students for various competitive exams	ass/lab/field)
Course Outcomes: (for students: To know what they are going to CO1: To gain knowledge on LCM and HCF and its related problem CO2: To get an idea of age, profit and loss related problem solving. CO3: Able to understand time series simple and compound interests CO4: Understanding the problem related to probability, and series	S
CO5: Able to understand graphs, charts	

Units	Contents	
	Numbers - HCF and LCM of numbers - Decimal fractions - Simplification - Square roots and cube roots - Average - problems on Numbers	
II	Problems on Ages - Surds and Indices - percentage - profits and loss - ratio and proportion - partnership - Chain rule.	
III	Time and work - pipes and cisterns - Time and Distance - problems on trains - Boats and streams - simple interest - compound interest - Logarithms - Area - Volume and surface area - races and Games of skill.	
	Permutation and combination - probability - True Discount - Bankers Discount - Height and Distances - Odd man out & Series.	
V	Calendar - Clocks - stocks and shares - Data representation - Tabulation - Bar Graphs - Pie charts - Line graphs	

Learning Resources:

Recommended Texts

1. "Quantitative Aptitude", R.S. AGGARWAL., S. Chand & Company Ltd.,

Web resources: Authentic Web resources related to Competitive examinations