## Name of the Program: Bachelor of Commerce (B.Com.)

## Course Code: B.Com.3.2.1 Name of the Course: Business Mathematics & Statistic

Course Credits	No. of Hours per	Total No. of Teaching Hours
	Week	
4 Credits	3+0+2 Hrs.	56 Hrs.
Pedagogy: Classroon	m lectures, Case studies, Tutorial Classes	, Group discussion, Seminars.,
Course Outcomes:	On successful completion of the course	, the Students will be able to
<ul> <li>Familiarize w</li> </ul>	vith simple and compound interest	
<ul> <li>Understand p</li> </ul>	roblem solving techniques using equatio	n methods
<ul> <li>Familiarize w</li> </ul>	vith the matrices and various roles of dete	erminants
<ul> <li>Comprehend</li> </ul>	the measures of various distributions and	1 averages
• Validate the	application of correlation and regression	in business decisions.
	Syllabus	
Module No. 1: CON	IMERCIAL ARITHMETIC (12 Hrs)	
Interest-Simple inter	on and selling price, Ratio Proportion	and Problems on Speed and Time,
Module No 2. TUF	ORV OF FOULTIONS (6 H-r)	
Meaning and Degre	e of equation-Linear equation meaning	and problems. Mathods of solving
simultaneous equations in two variable-Substitution and Elimination method only		
Module No. 3: MA	FRICES AND DETERMINANTS (10)	Hre)
Matrix-Meaning De	finition and Types -Matrix Operations-	Addition Subtraction Multiplication
by a constant and M	Iultiplication of two matrices- Transpose	e of Matrix-Determinant of a square
matrix-Minor of an	element of a determinant, co-factor of a	determinant -evaluation-solution of
simultaneous linear	equations in two variables using detern	ninants (Cramer Rule) Adjoint and
Inverse of square ma	itrix.	
Module No.4: MEA	SURES OF CENTRAL TENDENCY	AND DISPERSION (14 Hrs)
Introduction Meaning and Definition, objectives of measures of central tendency, Types of		
averages-Arithmetic mean (Simple average only) Median, Mode, (both grouped and ungrouped		
data, direct method excluding missing frequency) grouping table including empirical relationship		
among three average	2.	•
Meaning and objectives of measures of dispersion - Standard deviation and coefficient of Variation,		
problems on direct n	nethod only.	
Module No.5: COR	<b>RELATION AND REGRESSION (14</b>	Hrs)
Correlation: Meanin	g and definition-uses- Types-Karl Pear	son's coefficient of correlation
(deviation from actu	al mean only) Spearman's Rank Correlat	ion Coefficient
Regression-Meaning	, regression Equations, Estimating x	and y values. Finding correlation
coefficient with regr	ession coefficient.	
SKILL DEVELO	PMENT ACTIVITIES	
<ul> <li>Show the c</li> </ul>	hart for solving Multi-step Equation and	
<ul> <li>Show the c</li> </ul>	hart for different kinds of equations	
<ul> <li>Collect qu</li> </ul>	estion papers of UPSC and KPSC or a	ny Competitive exams and workout
problems r	elated to commercial arithmetic	
<ul> <li>Show a characteristic</li> </ul>	art for classification of Ratios	
<ul> <li>Assume M</li> </ul>	arks of 20 students in accounts and calcu	late Mean Median and Mode marks.