BCA 198: Reme	dial Mathem	atics	
Teaching Scheme	Examination	Sahama	
Lectures: 3 hrs/Week	Class Test -12	Marks	
Tutorials: 1 hr/Week	Teachers Asse	ssment - 6Marks	
	Attendance –	2 Marks	
Credits: 4	End Semester	Exam – 70 marks	
Course Objectives:			
 Become confident in using mathematics to ana real-life situations Appreciate the logic and basics of mathematic Enjoy mathematics and develop patience mathematical domain. Understand and be able to use the language, sy Develop mathematical curiosity and use in problems Recognize that mathematics permeates the word Develop the knowledge, skills and attitudes ne Milead Department of Computer Applications Bachelas university uter Applications 	alyze and solve s and persister mbols and nota ductive and do rld around us. cessary to purse	problems both in university nce when solving proble tion of mathematics eductive reasoning when ue further studies in mathem part factories in mathem Factories university factories university	and in ems in solving matics

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Detailed Syllabus:	
Unit I (10 hours)	
Quadratic Equations: Quadratic equation, nature of the roots of a	
roots and coefficients, formation of a quadratic equation with	uadratic equation, relation between
reducible to quadratic forms.	iven roots, solution of equations
UNIT - II (10 Hours)	
Matrices: Addition, Subtraction, Multiplication, Inverse of matrices	
matrices.	Simultaneous equation by
UNIT - III (10 Hours)	
System of Coordinates: Certain co-ordinates distance between two	
points, straight line, intercept form in normal	parts, area of triangle, locus df
UNIT - IV (10 Hours)	
Differential Calculus: Definition and formulation of differential cal	rulus Rules of standard form of
differential calculus, Chain Rule, Parametric rule	ulus, Rules of standard form of
UNIT - V (10 Hours)	
Integral Calculus: Standard form of Integral coloulus Portial fro	tion of Integral Trigonometric
function of Integral calculus	cuon or integral, ingonometric
UNIT - VI (10 Hours)	
Linear Differential equations. Linear differential equation of and	ha anastan than and with
constant coefficient complimentary function and particular Integral	er greater than one with
constant coefficient complimentary function, and particular integral.	
Text and Reference Books	
1. A textbook of Mathematics for XI-XII Students. NCERT Publicati	on Vol. I-IV. (Module I&II)
2. Loney, S.L "Plane Trigonometry" AITBS Publishers. (Module III)	
3. Loney, S.L "The elements of coordinate geometry" AITBS Publish	ers. (Module II)
4. Narayan Shanti, Integral calculus, Sultan Chand & Co. (Module I	& II)
5. Prasad Gorakh Text book on differential calculus, Pothishala	Pvt. Ltd., Allahabad.
(Module II)	
Course Outcomes:	
A fter completing the course, students will be able to:	
After completing the course, statistical and problems of quarter statistical statistics and problems of quarter statistic	adratic equation.
: Students will simplify and evaluate the court prime i	-
2: Students will form and solve matrix problems also their real-world i	mplementation.
	world applications
3: Students will understand the concepts of differentiation and their rea	
it is a liferential equations with the help of integ	ration also their advancement in
A: Students will form differential equations with the help of the	
pplication.	
• Students will form use of vector and scalar also the concept of gra	adient, divergent and curl solving
to	
	h narabala allinge hyperbola
: Students will understand the basics of coordinate and curve like circ	ie, parabola, empse, hypercon
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