Department of Mathematics- Course Outcomes

Even Semester 2020-2021

Paper Code	Title of the Paper	Course Outcome	CO Attainment							
SM1C4 S	Mathematics -IV	•Students will be	Subject : Mathematics - IV				Class	: IV Sem B.So	2	
			Paper Code:				Batch	: 2019 - 202	2	
			Questions	CO1	CO2	CO3	CO4	CO5		
			No.of students appeared	12	12	12	12	12		
			No.of students Passed	12	11	12	11	10		
			No. of students Failed	0	1	0	1	2		
		-		100	92	100	92	83		
		groups , quotient groups and understan d basic proofs. •Students will be able to evaluate the series in sine and	Over all Result Analysis Total No.of Studens No.of students appeared No.of students absent No.of students Passed No. of students Failed Pass %	12 12 0 10 2 83.00%	Dass Percentage	D	CO2	CO3	CO4	CO5
	Code SM1C4	CodePaperSM1C4Mathematics	CodePaperSM1C4Mathematics -IV•Students will be able to write basic definition and examples for normal groups , quotient groups and understan d basic proofs.	CodePaperSubject : Mathematics - IVSM1C4Mathematics•Students will be able to write basic definition and examples for normal groups , quotient groups and understan d basic proofs.Subject : Mathematics - IVOuestions•Students will be able to write basic definition and examples for normal groups , quotient groups and understan d basic proofs.Subject : Mathematics - IVOuestions•Students will be able to evaluate the series in sine and•Subject : Mathematics - IVPaper Code: Questions•No.of students appeared No.of students Passed No.of students Passed 	CodePaperSubject : Mathematics - IVSM1C4Mathematics -IV•Students will be able to write basic definition and examples for normal groups , quotient groups and basic basic definition and examples for normal groups , quotient groups and basic proofs. •Students will be able to evaluate the series in sine andSubject : Mathematics - IVPaper Code: QuestionsOutlot Paper Code: QuestionsOutlot Pass dot 12No. of students appeared 1212No. of students Failed 00Pass %100Over all Result Analysis10Total No. of Students proofs. •Students will be able to evaluate the series in sine and12No. of students Failed 22Pass %83.00%	CodePaperSM1C4Mathematics -IV•Students will be able to write basic definition and examples for normal groups , quotient groups and understan d basic proofs.Subject : Mathematics - IVOuestionsCO1CO2 Paper Code:QuestionsCO1CO2 INo. of students appeared1211No. of students Failed01Pass %10092Over all Result Analysis100Total No. of Students Passed12No. of students appeared12No. of students appeared12No. of students Failed0Pass %10092Over all Result AnalysisTotal No. of Students10No. of students appeared12No. of students Passed10No. of students Failed2Pass %83.00%Pass %83.00%	CodePaperSM1C4Mathematics -IV•Students will be able to write basic definition and examples for normal groups, quotient groups and understan d basic proofs.Subject : Mathematics - IVOuestionsC01C02C03No.of students appeared121212No.of students Passed121112No.of students Passed121110Pass %10092100Pass %10092100No.of students appeared1212No.of students appeared120Pass %10092100No.of students appeared1210No.of students appeared1210No.of students appeared1210No.of students Passed1010No.of students Passed1010No.of students Passed1010No.of students Passed1010No.of students Passed1010No.of students Passed10No.of students Passed10	CodePaperSM1C4Mathematics -IV•Students will be able to write basic definition and examples for normal groups, quotient groups and understand d basic proofs. •Students will be able to evaluate the series in sine andSubject : Mathematics - IVClassSubject : Mathematics - IVClassSubject : Mathematics - IVClassSubject : Mathematics - IVClassPaper Code: QuestionsBatchQuestionsCO1CO2No. of students appeared121112No. of students Failed010092100	CodePaperSMIC4MathematicsS-IVSinical-IVSinical-IVSinical-IVSinicalSubject : Mathematics - IVSinicalSubject : Mathematics - IVSinical </td <td>CodePaperSMIC4MathematicsSI-IVSubject : Mathematics - IVSubject : Mathematics - IVClass : IV Sem B.Scwill be able to write basic definition and examples for normal groups and understan d basic boof students proofs.Over all Result AnalysisTotal No.of Students Passed 10No. of students papeared 121212121213141516161717181910101010111212131414151516161718191910101010111212121314151616171819191010111213141516171818191919191010101112131414151617<!--</td--></td>	CodePaperSMIC4MathematicsSI-IVSubject : Mathematics - IVSubject : Mathematics - IVClass : IV Sem B.Scwill be able to write basic definition and examples for normal groups and understan d basic boof students proofs.Over all Result AnalysisTotal No.of Students Passed 10No. of students papeared 121212121213141516161717181910101010111212131414151516161718191910101010111212121314151616171819191010111213141516171818191919191010101112131414151617 </td

form	
using	
Fourier	
series.	
•Students	
will be	
able to	
compute	
Limits of	
а	
function,	
Continuit	
у &	
Discontin	
uity of a	
function.	
Evaluate	
Maxima	
&	
Minima	
of a two	
variable	
function	
•Students	
will be	
able to	
compute	
Cauchy-	
Euler	
homogen	
eous	
linear	

	aquations	
	equations	
	, specific	
	forms of	
	perticular	
	integrals.	
	•Students	
	will be	
	able to	
	understan	
	d the	
	higher	
	order	
	linear	
	differenti	
	al	
	equations	
	with	
	constant	
	coefficien	
	ts.	
	Students	
	will be	
	able to	
	understan	
	d the	
	concept	
	of	
	Laplace	
	Transfor	
	ms and	
	it's	
	Properties	
	ropentes	

VI Sem BSc	SM1C6 1	Mathematics -VII	•	. To evaluate Convoluti on theorem for a function Students will be able to learn	Subject Name: Mathematics - VII Paper Code :			Batch	: 2019 -	[Sem B.Sc 2022	c			
				about the	Questions	CO 1	CO 2	CO 3	CO 4					
				basis and	Total No. of Students	13	13	13	13					
				dimensions	No. of Students									
				& rank and	Appeared	12	12	12	12					
			•	nullity. Students	No. of Absentees	1	1	1	1					
			•	will be able	No. of Students Passed	11	12	11	12					
				to know	No. of Students Failed	1	0	1	0					
				how to use	Pass %	92	100	92	100					
				partial differential				10		I Sem B.	Sc M	athematics - VI	Ι	
				equation,	Over all Result Analysis	-		10		_				I
				and also	Total No.of Studens	13			8	100		100		
				Lagrange's linear	No.of students appeared	12		<u></u>	96					
				equation-	No.of students absent	1		rce)4					
				Charpit's	No.of students Passed	11		Pe)2					
				Method.	No. of students Failed	1		ass	90 92		92			
			•	Students	Pass %	92			88					
				will be able					36					
				to learn					CO	1 CO 2	CO 3	3 CO 4		
				Orthogonal						Co	urse O	utcome		

			Curvilinear Coordinate s • Students will be able to learn non-linear partial differential									
			equations									
VI Sem BSc	SM1C6 2	Mathematics -VIII	• Students will be able	Subject Name: Mather Paper Code :	natics -	VIII		Semest	er: VI Se Batc	em B.Sc ch: 2018 - 2	2021	
			to demonstrat	Questions	CO1	CO2	CO3		CO4			
			e understandi	No.of students appeared	13	13		13		13		
			ng of	No.of students Passed	12	13		12		13		
			common	No. of students Failed	2	1		0		1		
			numerical	Pass %	93	100		93		100		
			methods and how they are					V	I Sem I	B.Sc Ma	thematics	
			used to	Over all Result			100		100		100	1
			obtain	Analysis	I	,	98					
			approximat	Total No.of Studens	13							
			e solutions	No.of students appeared	13		enta 96					
			to	No.of students absent	0		DJJ 94	93	_	93		
			otherwise intractable	No.of students Passed	12		Pass Percentage					
			mathematic	No. of students Failed	1							
			al	Pass %	93		90 88					
							00	CO1	CO2	CO3 Outcome	CO4	-

problems.
• Students
will be able
to derive
numerical
methods
for various
mathematic
al
operations
and tasks,
such as
interpolatio
n,
differentiat
ion,
integration,
the solution
of linear
and
nonlinear
equations, and the
solution of
differential
equations.
• Students
will be able
to
understand
the
analyticity

		of a complex number. • Students will be able to analyze and evaluate Harmonic functions.					
II Sem	B0230	• Students	Subject Name: Commerc	ial Mat	hemat	ics	Semester: II Sem BCA
BCA		to learn	Paper Code :				Batch: 2021 - 2024
		concept	Quantiana		co	CO	
		s of set	Questions	CO1	2	3	
		,types of	Total Number of Students	16	16	16	
		sets and	No.of students appeared	15	15	15	
		Venn	No.of students Passed	13	14	14	
		diagram	No. of students Failed	2	1	1	
		s, learn	Pass %	87	93	93	
		concept					100 - II Sem BCA - CM
		s of	Over all Result Analysis				9
		Relation	Total No.of Studens	16			93 93 - 29 600 - 200 -
		s and	No.of students appeared	15			
		function	No.of students absent	13			
							80 CO1 CO1 CO2 CO3 Course Outcome

		No.of students Passed	2
	• Enable	No. of students Failed	87
	the	Pass %	
	students	F d 35 /0	
	to learn		
	concept		
	of		
	permuta		
	tion and		
	combina		
	tion		
	with		
	applicati		
	on		
	problem		
	,		
	concept		
	of		
	probabil		
	ity,		
	definitio		
	ns of		
	events,		
	occurre		
	nces of		
	events		
	and		
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	some		

rules of	
probabil	
ity and	
applicati	
on	
problem	
• Enable	
the	
students	
to learn	
to	
calculat	
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percenta	
ge and	
ratios in	
applicati	
on	
problem	
definitio	
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proporti	
ons and	
properti	
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apply	

II Sem BBA	B0220	Business Mathematics	these concept s in commer cial problem • Students will be able	Subject Name: E Mathematic			Se	mester: II S			
			to learn basic arithmetic operations on positive and negative whole numbers, fractions and decimals;	Paper Code : Questions No.of students appeared No.of students Passed No. of students Failed Pass %	CO1 10 10 0 100	CO2 10 9 1 90	CO3 10 10 0 100	Batch: CO4 10 9 1 90	2021 - 2024 CO5 10 10 0 100		
			 LCM & HCF Students will be able to perform basic arithmetic operations on 	Over all Result Analysis Total No.of Studens No.of students appeared No.of students absent No.of students Passed No. of students Failed Pass %	10 10 Nil 9 1 90		100 96 96 92 95 96 93 96 88 88 86	100) - 3 - 5 - 4 - 2 -) - 3 - 3 -	90	100	

expressions and fractional algebraic expressions ; Solve systems of linear equations in up to two unknowns and explain how to solve systems. Quadratic equations having fractional algebraic expressions , factor algebraic expressions , factor			
and fractional algebraic expressions : Solve systems of linear equations in up to two unknowns and explain how to solve systems. Quadratic equations and equations having fractional algebraic expressions . factor algebraic expressions . factor		algebraic	
Image:		expressions	
algebraic expressions i Solve systems of linear equations in up to two unknowns and explain how to solve systems. Quadratic equations and equations algebraic expressions factor algebraic expressions factor algebraic expressions factor algebraic			
expressions : Solve systems of linear equations in up to two unknowns and explain how to solve systems. Quadratic equations and equations fractional algebraic expressions factor algebraic expressions factor algebraic expressions			
i Solve Systems of linear equations in up to two unknowns and explain how to solve systems. Quadratic equations and equations having fractional algebraic expressions , factor algebraic expressions		algebraic	
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linear equations in up to two unknowns and explain how to solve systems. Quadratic equations and equations having fractional algebraic expressions , factor algebraic expressions		systems of	
in up to two unknowns and explain how to solve systems. Quadratic equations and equations having firactional algebraic expressions , factor algebraic expressions		linear	
two unknowns and explain how to solve systems. Quadratic equations and equations and equations having fractional algebraic expressions , factor algebraic expressions , factor algebraic expressions , factor algebraic expressions		equations	
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and explain how to solve systems. Quadratic equations and equations having fractional algebraic expressions , factor algebraic expressions		two	
how to solve systems. Quadratic equations and equations having fractional algebraic expressions , factor algebraic expressions			
how to solve systems. Quadratic equations and equations having fractional algebraic expressions , factor algebraic expressions		and explain	
systems. Quadratic equations and equations having fractional algebraic expressions , factor algebraic expressions		how to	
Quadratic equations and equations having fractional algebraic expressions , factor algebraic expressions		solve	
Quadratic equations and equations having fractional algebraic expressions , factor algebraic expressions		systems.	
and equations having fractional algebraic expressions , factor algebraic expressions		Quadratic	
and equations having fractional algebraic expressions , factor algebraic expressions		equations	
having fractional algebraic expressions , factor algebraic expressions		and	
having fractional algebraic expressions , factor algebraic expressions		equations	
fractional algebraic expressions , factor algebraic expressions		having	
expressions , factor algebraic expressions		fractional	
expressions , factor algebraic expressions		algebraic	
, factor algebraic expressions		expressions	
algebraic expressions		, factor	
expressions		algebraic	
Students		• Students	
are able to			

solve he problems in matrices, Cramer's rule, inverse of a matrix, Caley Hamilton theorem. Properties on logarithms & Indices. • Students will be able to describe the properties of arithmetic and geometric progression s and compute using them. • Students will be able		
in matrices, Cramer's rule, inverse of a matrix, Caley Hamilton theorem. Properties on logarithms & Indices. • Students will be able to describe the properties of arithmetic and geometric progression s and compute using them. • Students will be able		
Cramer's rule, inverse of a matrix, Caley Hamilton theorem. Properties on logarithms & Indices. • Students will be able to describe the properties of arithmetic and geometric progression s and compute using them. • Students vill be able	probl	ems
rule, inverse of a matrix, Caley Hamilton theorem. Properties on logarithms & Indices. • Students will be able to describe the properties of arithmetic and geometric progression s and compute using them. • Students will be able	in ma	trices,
 inverse of a matrix, Caley Hamilton theorem. Properties on logarithms & Indices. Students will be able to describe the properties of arithmetic and geometric progression s and compute using them. Students will be able 		er's
matrix, Caley Hamilton theorem. Properties on logarithms & Indices. Students will be able to describe the properties of arithmetic and geometric progression s and compute using them. Students will be able		
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theorem. Properties on logarithms & Indices. • Students will be able to describe the properties of arithmetic and geometric progression s and compute using them. • Students will be able	Caley	,
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 & Indices. Students will be able to describe the properties of arithmetic and geometric progression s and compute using them. Students will be able 		
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 will be able to describe the properties of arithmetic and geometric progression s and compute using them. Students will be able 		
to describe the properties of arithmetic and geometric progression s and compute using them. • Students will be able		
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properties of arithmetic and geometric progression s and compute using them. Students will be able will be able		scribe
of arithmetic and geometric progression s and compute using them. Students will be able	the	
of arithmetic and geometric progression s and compute using them. Students will be able	prope	rties
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geometric progression s and compute using them. • Students will be able		netic
i progression s and s and compute using them. • Students will be able	and	
i progression s and s and compute using them. • Students will be able	geom	etric
s and compute using them. • Students will be able	progr	ession
 using them. Students will be able 	s and	
 using them. Students will be able 	comp	ute
Students will be able	using	them.
	• Stude	nts
	will t	e able
	to	
recognize,	recog	nize,
understand,	under	stand,

				and compute problems relating to Simple & Compond interest annuities with payments that are not contingent, including annuity- immediate,							
II Sem B.Com	B0240	MTBD		Students will be able to learn basic	Class & Sec: II Semester B.	Com	Ι	-	ect: BN	1	Batch : 2021-2024
				arithmetic	Questions	CO1	CO	CO 3	CO	CO 5	
				operations	Questions No.of students appeared	CO1 60	2 60	5 60	4 60	5 60	
				on positive	No.of students Passed	58	58	59	60	60	
				and negative	No. of students Failed	2	2	1	0	0	
				whole					10		
				numbers,	Pass %	97	97	98	0	100	
				fractions				n	Ι	I Semo	ester B.Com
				and decimals;				р е	100		
				LCM &	Over all Result Analysis			r	99.5 99		
				HCF	Total No.of Studens	61		Рс ае	98.5	5	
			•	Students	No.of students appeared	60		s n	98 97.5		
								s t a g e	97.5 97. 96.5 96.5 95.5	7 5 6	
										CO1	
											Course outcome

will be able to perform basic arithmetic operations on algebraic expressions and fractional algebraic expressions ; No. of students Passed 58 No. of students Passed 2 Pass % 97
algebraic expressions

	, factor	
	, lactor	
	algebraic	
	expressions	
	•	
	• Students	
	are able to	
	solve the	
	problems	
	in matrices,	
	Cramer's	
	rule,	
	inverse of a	
	matrix,	
	Caley	
	Hamilton	
	theorem.	
	Properties	
	on le corithme	
	logarithms	
	& Indices.	
	• Students	
	will be able	
	to describe	
	the	
	properties	
	of	
	arithmetic	
	and	
	geometric	
	progression	
	s and	
	compute	

using them.	
• Students	
will be able	
to	
recognize,	
understand,	
and	
compute	
problems	
relating to	
Simple &	
Compond	
interest	
annuities	
with	
payments	
that are not	
contingent,	
including	
annuity-	
immediate,	