## **Department of Mathematics- Course Outcomes**

## Odd Semester 2021-2022

I Sem BSc Mathematics- OE Students Will be able to learn row and column operations, rank of matrix and to solve the system of homogeneo	
us and non- homogeneo us linear equations. Finding eigenvalue s and eigenvector s.Pass %100100100 <b>Over all Result Analysis</b> Total No.of Students appeared to calculate the limit and examine the continuity <b>Over all Result Analysis</b> Total No.of Students No.of students absent 100P 100P 100 <b>No.of Students</b> <b>No.of students Failed</b> <b>No.of students Failed</b> <b>Output</b> P e e e m s the limit and e 	Subject: Mathematics - OE

			and differentiab ility of a function at						
			<ul><li>a point.</li><li>Students will be able</li></ul>						
			to understand the						
			consequenc es of the intermediat						
			e value theorem for						
			continuous functions.						
			evaluate integrals,						
			find arc - lengths,						
			areas and volume						
III Sem	11323	Mathematics-	• Students	Class & Sec: III Semester B.S	ic				Subject: Mathematics-III
Doc		111	will be able to	Paper code:	Ba	tch: 20	)19-202	23	
			explain	Questions	CO1	2	COS	4	
			the	No of students appeared	12	12	12	4	
			significan	No of students Passed	12	11	12	11	
			ce of the	No. of students Failed	12	0	12	0	
			cosets.	Pass %	100	92	100	84	

	cyclic						Semest	er B.Sc		
	subgroups			p 10						
	generated	Over all Result Analysis		e 9	95 -					
	by an	Total No.of Studens	12	r						
	element	No.of students appeared	12	P g	90 -					
	of a group	No.of students absent	Nil	a						
	and Index	No.of students Passed	11	s ° °						
	of a group	No. of students Failed	1	s 8	30 -					
	and	Pass %	84							
	analyze	1 400 /0	01	g 4	75 +	co.1		<b>600</b>	<u> </u>	
	consequen			ъ		01	Course o		04	
	ces of						Course	utcome		
	Lagrange'									
	s theorem.									
	• Students									
	will be									
	able to									
	assimilate									
	notions of									
	limit of a									
	sequence									
	and									
	boundedn									
	ess of a									
	sequence.									
	• Students									
	will be									
	able to									
	learn									
	convergen									
	ce of a									

sequences	
and series	
of real	
numbers	
and to	
find the	
summatio	
n of the	
Binomial,	
Exponenti	
al and	
Logarithm	
ic series.	
•Students will	
be able to	
find the	
Laplace	
transform	
of a	
function	
and	
Inverse	
Laplace	
transform	
of a	
function	
using	
definition	
and	
calculate	
the	
Laplace	
transform	

V Sem BSc	11525	Mathematics-	• S	of derivative s, integrals and periodic functions.	Subject Name: Mather	natics -	- V		S	Semester: V Se	m B.Sc		
DBC			V L		Paper Code :					Batch:	2019 - 2022	l	
			u t	o understand	Questions	CO1	CO 2	CO3		CO4	CO5		
			t c	he concepts	No.of students appeared	13	13		13	13	13		
			а	and	No.of students Passed	11	11		12	12	11		
			C	calculation	No. of students Failed	2	2		1	1	2		
				ntegral	Pass %	85	85		92	92	85		
			E a • S	Domains and Fields. Students				94		V Sem B	.Sc Mathema	atics - V	
			v t	will be able to know the	Over all Result Analysis		1	P 92 E					
			c	operation	Total No.of Studens	13		<b>R</b> 90					
			C d	of	No.of students appeared	13		PC <sub>88</sub>					
			a	and curl of	No.of students absent	0		s N <sup>86</sup>					
			a	vector	No.of students Passed	11		s T 84		_			
			f	ield.	No. of students Failed	2		A					
			• S	Students	Pass %	85		6 82					
			V k	will be able			-	E <sup>80</sup>		CO1 CO	2 CO3	CO4	CO5
			K								<b>Course Out</b>	come	

			process of calculation of Numerical Methods: forward and backward formula and numerical integration.								
V Sem BSc	11526	Mathematics-	• Students	Subject Name: Mathen	natics ·	· VI		Semester: V Se	em B.Sc		
		VI	will be able	Paper Code :	1			Batch:	2019 - 2022		
			line	Questions	CO1	CO 2	CO3	CO4	CO5		
			integrals in	No.of students	101	2	003	04	205		
			the plane	appeared	13	13	13	13	13		
			space,	No.of students Passed	12	11	13	12	11		
			including	No. of students Failed	1	2	0	1	2		
			line	Pass %	92	85	100	92	85		
			vector fields. Use the Fundament	Over all Result Analysis		1	100 P	V Sen	nester B.S	C	
			al Theorem	Total No.of Studens	13		<b>e</b> 95 -				
			of Line Integrals	appeared	13		r D				
			• Students	No.of students absent	0		гс <sub>90</sub> - ае				
			will be able				s n <sub>oc</sub>				
							st				
							a ø 80 -				
							e e				
							75				

	to compute	No of students Passed	11
	double		
	integrals	No. of students Failed	
	over	Pass %	85
	rectangles		
	and over		
	general		
	regions		
	Use double		
	integrals to		
	compute		
	volume of		
	solids and		
	areas of		
	plane		
	Students		
	will be able		
	to compute		
	triple		
	integrals		
	over		
	rectangular		
	boxes and		
	general		
	surfaces.		
	Evaluate		
	triple		
	integrals in		
	cylindrical		
	and		
	spherical		
	coordinates		
	• Students		

		<ul> <li>will be to gain knowl about Green Theor Gauss Divers theore and St Theor and applic</li> <li>Stuck will be to solv ordina difference equati using Lamba</li> </ul>	be able in the ledge in's rem , s rem , s rem toke's rem cations dents be able ve ary ential ions					
		using Laplac transf	ice					
		tiunor,	orm.					
I Sem BCA	MATOET 1: Corporate Mathematics	• Stu wi abl lea	udents ill be ile to arn	Class & Sec: I Sem BCA 'A' Subject: OE - Corporate Ma Batch: 2021-2024	& 'B' athematics Paper co	de:	Γ	
		typ	pes of	Questions	CO1	CO2	CO3	
		equ	uation	No.of students appeared	36	36	36	
		s a	and	No.of students Passed	36	34	31	
		me	ethods	No. of students Failed	0	2	5	

to solve	Pass %	100	94	86			
linear,							
quadrati							
с	Over all Result Analysis				l Sem	ester BCA	
equation	Total No.of Studens	36			i Sen		
s and	No.of students appeared	33		105			
learn to	No.of students absent	3					
use	No.of students Passed	31		95 00			
mathem	No. of students Failed	2		<b>Per</b> 82			
atical	Pass %	94.00%		SS 80			
equation				<b>Å</b> 75			
s in real					CO1	CO2	CO3
world						<b>Course Outcom</b>	9
situation							
S.							
• Students							
will be							
able to							
learn							
frequenc							
У							
distributi							
on,							
Geometr							
ic Mean,							
Harmoni							
c Mean,							
and							
Arithmet							

	ic Mean,	
	Median	
	and	
	Mode	
	concepts	
	• Students	
	will be	
	able to	
	understa	
	nd the	
	formulat	
	ion of	
	linear	
	program	
	ming	
	problem	
	S.	
	analyze	
	and	
	solve	
	linear	
	program	
	ming	
	models	
	of real	
	life	
	situation	
	staution	
	з,	

			provide graphica l solutions of linear program ming problem s with two variables and illustrate the concept of convex set and extreme points.							
III Sem B.Com	35325		• Students will be able to	Subject : Business Data Anal Paper code:	lysis Batch 2023	: 2020	)-			Class & Sec: III Semester B.Com A
		Business	understand			CO		CO	CO	
		Data	the basic	Questions	CO1	2	CO3	4	5	
		Analysis	statistical	No.of students appeared	62	62	62	62	62	
			tools for	No.of students Passed	60	61	60	61	59	
			interpretati	No. of students Failed	2	1	2	1	3	
			incipician	Pass %	97	98	97	98	95	



		interpretati	Over all Result Analysis						
		on of the	Total No of Studens	67					
		sample	No of students anneared	66					
		product	No of students absent	1					
		moment	No of students Passed	63					
		correlation	No. of students Failed	3					
		coefficient	Pass %	<u>م</u>					
		and the	1 833 70	55			1	1	
		regression						I	
		equation							
		are							
		discussed							
		and							
		illustrated.	Subiect : Business Data Anal	lvsis					Class & Sec: III Semester B.Com C
		• Students		Batch	: 2020	)-			
		will be able	Paper code:	2023					
		to			CO		CO	CO	
		time series	Questions	CO1	2	CO3	4	5	
		methods	No.of students appeared	65	65	65	65	65	
		and the	No.of students Passed	2	1	0	2	3	
		application	No. of students Failed	63	64	65	63	62	
		s of these	Pass %	97	98	100	97	95	
		methods to							
		different							III Semester B Com 'C'
		types of					1	00 _	
		data in	Over all Result Analysis	1	I		р	99 -	
		various	Total No.of Studens	77			e	00	
		<ul> <li>Students</li> </ul>	No.of students appeared	70			r	50	
		will be able	No.of students absent	7			° C	97 -	
L	I						n	96 -	
							t i	95 -	
							้อ	94	
							g	02	
							e	93 -	
								92 🖵	

		to undersatnd filling the missing data by Binomial expansion method and Newton's Method.	No.of students Passed No. of students Failed Pass %	65 5 93	
III Sem	Business	Students	Class : III Semester BBA		

BBA	Analytics-II	will be able	Subject: Business Data An	alysis (BI	DA)								
		to	Batch: 2020-2023	Paper c	ode:								
		understand				CO	CO						
		the basic	Questions	CO1	CO2	3	4	CO5					
		statistical	No.of students										
		tools for	appeared	69	69	69	64	67					
		analysis,	No.of students Passed	67	69	69	58	60					
		interpretati	No. of students Failed	2	0	0	6	7					
		on of				10							
			Pass %	97	100	0	91	90					
		auantitativ											
		e data,											
		conceptual			Γ								
		overview	Over all Result Analysis		,				III Se	mec	stor P	RRΔ	
		of	Total No.of Studens	78					in Sc	IIICJ			
		Statistics,	No.of students				102 -						
		recognize	appeared	69		e	100 -						
		and	No.of students absent	9		Itag	98 -						
		appreciate	No.of students Passed	64		cen	94 -						
		the	No. of students Failed	5		Per	92 -						
		connection		93.00		SS I	90 -			<u> </u>	-		
		s between	Pass %	%		Pas	88 -			<u> </u>		_	_
		theory and					86 -						
		application					84 -	- CO1		•	<u> </u>	<u> </u>	COL
		S Stor de sta						01	. 02	a	03	CO4	COS
	•	Students							(	Course	e Outco	ome	
		to interpret											
		data			L								
		uata through											
		statistical											
	11	statistical											

tools like	
mean,	
median and	
mode.	
Standard	
Deviation	
and	
Skewness.	
• Students	
will be able	
to perform	
calculation	
and	
interpretati	
on of the	
sample	
product	
moment	
correlation	
coefficient	
and the	
linear	
regression	
equation	
are	
discussed	
and	
illustrated.	
• Students	
will be able	
to	
understand	

		•	time series methods and the application s of these methods to different types of data in various contexts Students will be able to undersatnd Sampling methods							
I Sem BCA		•	Students to	Class & Sec: I Semeste	er BCA 'A'	' Det	-h. 20	24 202		Subject:
DCA			learn	Paper code:		Bate	ch: 20	21-202	24	
			concepts of	Questions		CO1	2	3	4	
			set ,types	Total Number of students		49	49	49	49	
			of sets and	No.of students appeared		47	47	47	47	
			venn	No.of students Passed		44	43	45	47	
			learn	No. of students Failed		3	4	2	0	
			concepts of						10	
			Relations	Pass %		94	91	96	0	
			and							
			function.	Over all Posult Analysis						
				Over all Result Analysis						



<ul> <li>Students will be able</li> <li>to learn types of matrix,</li> <li>Determinan t of a matrix, row and column operations, Inverse of a matrix,</li> <li>rank of</li> </ul>	Class & Sec: I Semester BCA 'B' Subject: Discrete Structures Paper code: Questions Total Number of students No.of students appeared No.of students Passed No. of students Failed Pass %	Bate CO1 49 48 44 44 92	ch: 20 CO 2 49 48 45 3 94	21-202 CO 3 49 48 48 0 100	4 CO 4 49 48 47 1 98			
<ul> <li>matrix and to solve the system of linear equations.</li> <li>Enable the students to learn vertex, edge, types of graph, Euler graph and Isomorphis m of a graph, concepts in applications of graph,</li> </ul>	Over all Result Analysis Total No.of Studens No.of students appeared No.of students Passed No. of students Failed Pass %	49 48 1 44 4 84	P a s s	100 <b>p</b> <b>e</b> <sup>98</sup> - <b>r</b> <b>c</b> <sup>96</sup> - <b>e</b> <sub>94</sub> - <b>t</b> <sub>92</sub> - <b>a</b> <b>g</b> 90 - <b>e</b> 88 -	C01	I Semest	er BCA '	B'

	HOD Signature	Vice Principal