KRANTIGURU SHYAMJI KRUSHNA VERMA KACHCHH UNIVERSITY												
FACULTY OF SOCIAL SCIENCE AND HUMANITIES (DOE)												
Progr	ogramme Bachelor of Arts							Branch/Spec. BA Stat		Statistics		
Semester I (One)							Version/Pattern NEP 2020					
Effective from Academic Year 2023-24							Effective f	for the b	atch	Admitted in	2	024-25
Subject Code DSCM - 101 Subject Name							FUNDAM	IENTA	LS (DF STATIST	ICS	– I
		Teaching	scheme	e	Examination scheme (Marks)							
(Per week) Leo			re (DT)	Practi	ical (Lab.)	al (Lab.) Total CE S		SEE		Total		
		L	TU P		TW	TW						
Credit 4			-		-	4	Theory	50		50		100
Hours	5	4	-	-	_	4	Practical	-		_		-
Pre-re	equisite	es:		<u> </u>			I					
*	• The	learner	s should l	nave ba	sic understa	nding o	f data and s	hould h	ave a	logical think	ing.	
Learn	ing Ou	tcome:				0				8	0	
*	After	· succe	ssfully co	mpleti	ng this cour	se, the s	student will	be able	to p	erform the fo	llow	ing tasks
	verv	easily.		r					·· r			
	•	Will	be able t	o unde	rstand the m	eaning	and importa	ance of a	Statis	tics in researc	ch.	
	•	Bec	ome able	to ar	oply the dat	a colle	ction meth	ods and	to	carryout var	ious	surveys
	independently											501 (0)5
	 Learn to classify and tabulate the data and will be able to interpret it 											
	 Will become capable to represent the data in diagrammatic and graphical form 											
Theory Syllabus												
Unit Contant Hours												
1	Statistics: An Introduction										1100115	
•	Origin and Growth										10	
	 Meaning and Definitions 											
	 Functions Uses and Limitations 											
2	Colle	ction c	of Data									15
-		Popu	ilation an	d Samı	ole.							10
		Ouar	ntitative a	nd Ou	alitative data	l.						
		Prim	arv and S	Seconda	arv Data.							
		Meth	nods of co	ollectin	g Primary da	ata.						
		Sour	ces of Se	condar	y data.							
3	Class	ificati	on and T	abulat	ion of Data							15
	\triangleright	Mea	ning and	Basic t	erminologie	s.						
	Þ	Туре	es of Clas	sificati	on.							
	Þ	Туре	es of Tabi	lation.								
	\succ	Sim	ole Exam	ples.								
4	Diag	rams a	nd Grap	hs								15
	\triangleright	Impo	ortance, L	imitati	ons and type	es of dia	ıgram.					
	Importance, Limitations and types of Graph.											
➢ Simple Examples.												
Refer	ence (A	APA St	yle)									
1	Busin	ess Sta	tistics by	J. K. S	Sharma, Pear	son Ind	ia Pvt Ltd,	Chenna	i.			
2	Statist	tical M	ethods b	y S. P.	Gupta, Sulta	an Chan	d & Sons, N	New De	lhi.			
3	Busin	ess Sta	tistics by	S. C. 0	Gupta, Hima	laya Pu	blishing Ho	use, Mu	ımba	i.		
4	Progra	ammeo	l Statisti	cs by E	B. L. Agarwa	l, New	Age Int. Pu	blishers	, Nev	v Delhi.		
5	5 Comprehensive Statistical Methods by Arora's, S. Chand & Co. Ltd, New Delhi.											

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FACULTY OF SOCIAL SCIENCE AND HUMANITIES (DOE)												
Progr	amme		Bachelo	r of Ar	ts		Branch/Sp	ec.	BA	Statistics		
Seme	ster		I (One)				Version/Pattern NEP 2020					
Effec	tive fro	om Aca	demic Ye	ear	2023-24		Effective for the batch Admitted in 2024-2					024-25
Subject Code DSCM - 102 Subject Name							MATHEN	AATIC	AL S	STATISTICS	5 – I	
Teaching scheme							Examination scheme (Marks)					
(Per week) Lecture (DT) P				Pract	ical (Lab.)	Total		CE	CE SEE			Total
		L	TU	Р	TW							
Credi	t	4	-		-	4	Theory	50		50		100
Hour	8	4	I	-	-	4	Practical	-		-		-
Pre-re	equisite	es:										
*	The	learner	s should l	have ba	asic knowled	lge of m	athematics	up to hi	gh sc	chool level.		
Learn	ing Ou	itcome:										
*	The	course	outcom	es of	Mathematic	al Stati	stics aim to	o prepa	re st	tudents for r	igor	ous data
	analy	ysis, re	search ar	nd deci	sion-making	g across	various do	mains	After	successful c	omp	oletion of
the course, the students should be well equipped to apply statistical reasoning and methodo											odologies	
to the real life problems and contributes to evidence based practices in their respective fields.												elds.
Theor	eory Syllabus											
Unit						Conten	t					Hours
1	Function										15	
	Introduction and Definition											
	Domain, Codomain and Range.											
	Notation and Types of Function.											
	Equal and Real Function.											
2	2 Limits											15
		Intro	duction.									
		Limi	t of a Fui	iction.								
		wor	king Rule	es of Li	imit.							
2	م ا بن ا	Stan	Decorrect	iis of L								15
3			Progress	Sorios								15
		Intro	duction of	SCHES	•							
		$h n^{th} T$	erm of ar	ΔP								
		Sum	of First r	n Term	s of AP							
4	Geo	metric	Progres	sion								15
-		 Intro 	duction.	51011								10
	hard a GP											
		Sum	of First r	n Term	s of GP.							
Refer	ence (A	APA St	yle)									
1	Busin	ess Ma	thematic	s by V	. K. Kapoor	, Sultan	Chand & So	ons, Ne	w De	elhi.		
2	Math	ematics	s by V. P.	. Jaggi	& A. B. Ma	thur, Su	ltan Chand	& Sons,	, Nev	v Delhi.		
3	Eleme	entary	Pure Ma	thema	tics by J. D.	Hodson	n, MacMilla	n & Co.	. Ltd.	London.		
4	Princi	ples of	Mathen	natics	by C. B. Alle	endoerfe	er & C. O. C	Dakley, I	McG	raw-Hill, NY	•	
5	Math	ematic	s and Sta	atistics	s for Econo	mics by	G. S. Mor	nga, Vil	kas F	Publishing Ho	ouse	Pvt Ltd,
	Sahibabad (UP).											

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FACULTY OF SOCIAL SCIENCE AND HUMANITIES (DOE)													
Progr	amme		Bachelo	r of Ar	ts	Branch/Spec. BA Statistics							
Semester I (One)							Version/Pattern NEP 2020						
Effect	tive fro	demic Ye	ear	2023-24	Effective f	for the b	atch	Admitted in	2	024-25			
Subje	ct Cod	MI - 101	l	Subject Na	FUNDAM	IENTA	LS (DF STATIST	ICS	– I			
Teaching scheme								Examination scheme (Marks)					
(Per v	veek)	Lectu	re (DT)	Practi	cal (Lab.)	Total	CE SEE			1	Total		
		L	TU P		TW								
Credi	t	4	-		-	4	Theory	50		50		100	
Hours	5	4	-	-	-	4	Practical	-		-		-	
Pre-re	quisite	es:											
*	The	learner	s should l	nave ba	sic understa	nding o	f data and s	hould h	ave a	logical think	ing.		
Learn	ing Ou	tcome:	•							<u> </u>	0		
*	After	· succe	ssfully co	mpleti	ng this cour	se. the s	student will	be able	to p	erform the fo	llow	ing tasks	
	verv	easily.	5	1	0	,			1			0	
	•	Will	l be able t	o unde	rstand the m	eaning	and importa	ance of S	Statis	stics in researc	ch.		
	•	Bec	ome able	to ar	ply the dat	a colle	ction meth	ods and	to	carryout var	ious	surveys	
		inde	pendently	v.				0000 0000			10 000	501 (0)5	
	• Learn to classify and tabulate the data and will be able to interpret it												
	• Will become capable to represent the data in diagrammatic and graphical form												
Theory Syllabus													
Unit Content Hours													
1	Statistics: An Introduction										110010		
-	Origin and Growth										10		
	 Meaning and Definitions 												
	 Functions Uses and Limitations 												
2	Colle	ction c	of Data	und und	2							15	
-		Popu	ilation an	d Samr	ole.							10	
		Ouar	ntitative a	nd Ou	alitative data	l.							
		Prim	arv and S	beconda	arv Data.								
		Meth	nods of co	ollectin	g Primary da	ata.							
		Sour	ces of Se	condar	y data.								
3	Class	ificati	on and T	abulat	ion of Data							15	
	\triangleright	Mea	ning and	Basic t	erminologie	s.							
	Þ	Туре	es of Clas	sificati	on.								
	Þ	Туре	es of Tabi	ilation.									
	\succ	Sim	ole Exam	ples.									
4	Diag	rams a	nd Grap	hs								15	
	\triangleright	Impo	ortance, L	imitati	ons and type	es of dia	gram.						
	Importance, Limitations and types of Graph.												
➢ Simple Examples.													
Reference (APA Style)													
1	Busin	ess Sta	tistics by	J. K. S	Sharma, Pear	son Ind	ia Pvt Ltd,	Chennai	i. –				
2	Statist	tical M	l ethods b	y S. P.	Gupta, Sulta	an Chan	d & Sons, N	New De	lhi.				
3	Busin	ess Sta	tistics by	S. C. 0	Gupta, Hima	laya Pu	blishing Ho	use, Mu	ımba	i.			
4	Progra	ammeo	d Statisti	cs by B	. L. Agarwa	l, New	Age Int. Pu	blishers	, Nev	w Delhi.			
5	5 Comprehensive Statistical Methods by Arora's, S. Chand & Co. Ltd, New Delhi.												

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FACULTY OF SOCIAL SCIENCE AND HUMANITIES (DOE)												
Program	me	Ba	acheloi	of Ar	ts		Branch/Spec. BA Statistics					
Semester	r	Ι ((One)		-		Version/Pattern NEP 2020					
Effective	e from A	Acadei	mic Ye	ar	2023-24		Effective f	or the b	atch	Admitted in	2	024-25
Subject Code MD - 101 Subject Name							MATHEN	IATIC	AL S	STATISTICS	5 – I	
Teaching scheme							Examination scheme (Marks)					
(Per week) Lectu		cture ((DT)	Practi	cal (Lab.)	Total		CE		SEE		Total
	I		TU	Р	TW							
Credit	Credit 4				-	4	Theory	50		50		100
Hours	2	1	-	-	-	4	Practical	-		-		-
Pre-requi	isites:											
◆ T	'he lear	ners sł	hould h	ave ba	sic knowled	ge of m	athematics	up to hig	gh sc	hool level.		
Learning	Outco	me:										
◆ T	he cou	urse o	utcome	es of	Mathematica	al Statis	stics aim to	o prepa	re st	udents for r	igor	ous data
a	nalysis	, resea	arch an	d deci	sion-making	across	various doi	mains. A	After	successful c	omp	oletion of
the course, the students should be well equipped to apply statistical reasoning and methodo											odologies	
to the real life problems and contributes to evidence based practices in their respective fields.												elds.
Theory S	ory Syllabus										TT	
						onten	[Hours
I Fi	Function										15	
	 Introduction and Definition Domain Codomain and Pango 											
	 Domain, Couomain and Kange. Notation and Types of Function 											
	 Found and Types of Function. Equal and Real Eulertion. 											
2 Li	Equal and Real Function. Imits											15
	Limits Introduction										10	
	> I	imit o	of a Fur	ction								
	\succ v	Vorkin	g Rule	s of Li	mit.							
	≻ s	tandar	rd Forn	ns of L	imit.							
3 A	rithme	tic Pr	ogress	ion								15
	≻ s	equen	ce and	Series								
	> Iı	ntrodu	ction o	f AP.								
	≻ n	th Tern	n of an	AP.								
	≻ S	um of	First n	Term	s of AP.							
4 (Geome	tric Pi	rogres	sion								15
	> Iı	ntrodu	ction.									
	> n	^m Tern	n of a (GP.								
	\rightarrow S	um of	First n	Term	s of GP.							
Referenc	e (APA	A Style	e)	- h. X	V V	C1	Chandle C	NT.	- D	11. !		
	siness			s by v	. K. Kapoor,	Sultan	Chand & So	ons, Nev	w De	2ln1.		
	atnema	my D	$\mathbf{y} \mathbf{v} \cdot \mathbf{P}$	Jagg1	α A. D . Mai	unur, Su		x sons,		V Deini.		
	incipla	ry ru s of M	ne Wia Iothom	ution ¹	$\mathbf{UCS} \cup \mathbf{Y} \mathbf{J} \cdot \mathbf{D} \cdot \mathbf{D}$	ndoorfa	$r \& C \cap O$	n & CO. Asklav - M		LUIIUUII. row Hill NV		
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	hihahad	ILLS A	nu sti	1151105		unes Uy	0. 5. WOI	iga, v li	xas r	uonsning IIC	use	I VI LIU,
Sal	moada	(01)	•									