ŀ	KRAN	TIGU	JRU SH	IYAN	IJI KRUS	HNA	VERMA	KACH	ICH	IH UNIVE	RS	TY
		F	ACULT	Y OF S	SOCIAL SO	CIENC	E AND HU	JMANI	TIE	S (DOE)		
Progr	amme		Bachelo	r of Ar	ts		Branch/Sp	ec.	BA	Statistics		
Seme	ster		II (Two))			Version/Pa	attern	NE	P 2020		
Effec	tive fro	m Aca	demic Ye	ear	2023-24		Effective f	or the b	atch	Admitted in	2	024-25
Subje	ct Cod	e	DSCM -	201	Subject Na	ame	FUNDAM	IENTA	LS (DF STATIST	ICS	– II
			Teaching :		, v					scheme (Mar		
(Per v	veek)		re (DT)		ical (Lab.)	Total		CE		SEE		Total
	L TU P TW											
Credi	t	4			_	4	Theory	50		50		100
Hour		4	_	_	_	4	Practical	-		-		_
	equisite					. ·	Tractical					
			s should l	have he	sic understa	nding o	f data and s	hould h		logical think	ina	
		itcome:				nunig o	i uata aliu si		avea		mg.	
				malati	ng this cour	a tha	tudant will	ha ahla	ton	erform the fo	11000	ing tooks
*		easily.	ssiuny co	mpieti	ing this cour	se, the s	student will	be able	to p	enorm the lo	now	ing tasks
	very	•			منا معدمه ما ا	~ 1			1.4			
	•			-	inderstanding	-	-		11at10	on.		
	•		-	-	select approp							
	•				th the basic t	-			•			
	•		-		-				sofe	central tender	icy.	
	•		able to u	ise the	various mea	sures of	central tend	dency.				
	y Sylla	abus										
Unit						Conten	t					Hours
1			Iethods									15
					n and Sample.							
					d Sample Inqu							
					Size of a Sar od Sample.	nple.						
			ods for Sa	•								
2			Central									15
-			ning of Ce		•							10
					ood Measure.							
	≻	Arith	metic Mea	an (Sim	ple Mean).							
		Com	bined, We	ighted a	and Geometri	c Mean.						
					vantages of M	Iean.						
3			Central									15
					res of Position	nal Aver	ages.					
			an, Quarti entiles and									
					vantages of N	ledian						
4	Mea		Central			iculaii.						15
-					ing of Mode.							10
					finding Mode							
		-			finding Mode							
			÷		vantages of M							
				udy of	Mean, Media	n and M	ode.					
		PA Styl		** ***	_	• • • -						
1					arma, Pearson							
2			•		upta, Sultan C							
3 4			•		pta, Himalaya L. Agarwal, N		•			i		
5	0			•	thods by Aro	•						
~								,				

ŀ	KRANTIG	URU SH	IYAN	1JI KRUS	SHNA	VERMA	KACI	HCE	IH UNIVE	RSITY
	I	FACULT	Y OF S	SOCIAL SO	CIENC	E AND HU	JMAN	ITIE	S (DOE)	
Progr	amme	Bachelo	r of Ar	ts		Branch/Spec. BA Statistics				
						Version/Pattern NEP 2020				
Effect	tive from Ac	ademic Ye	ear	2023-24		Effective f	for the b	atch	Admitted in	2024-25
Subje	ct Code	DSCM -	- 202	Subject Na	ame	MATHEN	ЛАТІС	AL S	STATISTICS	5 – II
		Teaching	scheme	è		I	Examina	ation	scheme (Mar	:ks)
(Per v	veek) Lect	ure (DT)	Pract	ical (Lab.)	Total		CE	2	SEE	Total
	L	TU	Р	TW						
Credi	t 4	-		-	4	Theory	50		50	100
Hours	s 4	-	-	-	4	Practical	-		-	_
Pre-re	equisites:		1 1		1					
	The learne	rs should l	have ba	sic knowled	lge of m	nathematics	up to hi	gh sc	chool level.	
	ing Outcom				8			0		
*	0		es of	Mathematic	al Stati	stics aim to	o prepa	are s	tudents for r	igorous data
·									successful c	
	•			-	-				soning and m	-
									their respectiv	
Theor	y Syllabus	1					L		1	
Unit					Conten	t				Hours
1	Determir	ant				-				15
	> Orc	aning and ler 2 x 2 aı perties (Rı	nd 3 x 3							
	> Mir	hors and C mer's Rule	o-facto	ors.						
	> Exa									
2	Matrix									15
-		aning and	Definit	ion						10
	 Meaning and Definition. Types of Matrices. 									
	 Operations on Matrices. 									
	 Adjoint and Inverse. 									
	 Examples. 									
3	Permuta									15
C	 Meaning and Formula. 									
	 Permutations of Different Things. 									
	 Permutations of Different Things. Permutations of Similar Things. 									
	 Circular Permutation. 									
		mples.	iacaciói	•						
4	Combina									15
•		aning and	Formu	la						10
		-		gs taken son	ne or all	at a time				
				nbinations.		u				
				nomanomo.						
	EXS	mples								
Refer		mples.								
	ence (APA S	Style)	by V 🖡	Kanoor Su	ltan Cha	nd & Sone N	Jew Del	hi		
1	ence (APA S Business Ma	Style) thematics	•	. Kapoor, Su A B Mathur					i	I
1 2	ence (APA S Business Ma Mathematic	tyle) thematics s by V. P. J	aggi &	A. B. Mathur	, Sultan	Chand & Son	ns, New	Delh		
1 2 3	ence (APA S Business Ma	Style) thematics s by V. P. J Pure Math	aggi & ematic	A. B. Mathur s by J. D. Ho	, Sultan dson, Ma	Chand & Son acMillan & C	ns, New Co. Ltd. 1	Delhi Londo	on.	

ŀ	KRAN	TIGU	JRU SH	IYAN	IJI KRUS	HNA	VERMA	KACI	ICH	IH UNIVE	RSI	TY
		FA	ACULTY	Y OF S	SOCIAL SO	CIENC	E AND HU	JMAN	TIE	S (DOE)		
Progr	amme		Bachelo	r of Ar	ts		Branch/Sp	ec.	BA	Statistics		
Semester II (Two)							Version/Pattern NEP 2020					
Effec	tive fro	m Aca	demic Ye		2023-24	Effective f	or the b	e batch Admitted in 2024-25 TALS OF STATISTICS – II ination scheme (Marks) CE SEE Total 50 50 100 I have a logical thinking. ble to perform the following tasks opulation. dency. ures of central tendency.				
Subie	ect Code MI - 201 Subject Name										n 2024-25 STICS – II arks) Total 100 - nking. following tasks ency. Hours 15 15 15	
J			Teaching									
(Per v	veek)		re (DT)		ical (Lab.)	Total		CE		,	,	Total
(1 01	(0011)	L	TU	P	TW	1000				~22		1000
Credi	t	4	-	-	-	4	Theory	50		50		100
Hours		4		_	_	4	Practical			-		-
	equisite			I		ª	Tuetieur					
			a chould b	novo ho	nie underste	nding o	f data and a	hould h		logical think	ina	
				lave ba	asic understa	nang o			ave a	t logical think	mg.	
		tcome:			ing this gave	an the c		ha ahla	40.00	aufo una tha fa	11.0.000	in a taalaa
*			ssiully co	mpieti	ing this cour	se, the s	student will	be able	to p	erform the fo	HOW	ing tasks
	very	easily.	1	1	1 / 1	1 (1	1	1			
	•			-			-		11at10	on.		
	•		•	•	select approp							
	•				th the basic t	-			-			
	•		•		-				sof	central tender	icy.	
	•		able to u	se the	various mea	sures of	central tend	lency.				
	y Sylla	abus										
Unit						Conten	t					Hours
1	Sam		lethods									15
					n and Sample.							
					d Sample Inqu							
					Size of a Sar	nple.						
			ods for Sa		od Sample.							
2			Central									15
4			ning of Ce									13
					ood Measure.							
					ple Mean).							
	\succ	Com	bined, We	ighted a	and Geometri	c Mean.						
	\triangleright	Adva	intages and	d Disad	vantages of M	Iean.						
3			Central 7									15
					res of Position	nal Aver	ages.					
			an, Quarti		Deciles. itile Rank.							
					vantages of N	Andian						
4			Central			iculan.						15
-					ning of Mode.							13
					finding Mode							
	\succ				finding Mode							
	\succ	Adva	intages and	d Disad	vantages of M	1ode.						
		-		udy of	Mean, Media	n and M	ode.					
		PA Styl										
1					arma, Pearson							
2			•		upta, Sultan C							
3			•		pta, Himalaya		•			:		
4 5	0			•	L. Agarwal, N thods by Aro	•						
5	Combi	enensi	ve statist	icai wie	uiuus uy Afo	na 8, 0. '	C_{11} Contraction of C_{10}		w Dt	/1111.		

K	KRAN									IH UNIVE	RSITY		
		F				CIENC	E AND HU			()			
Progra			Bachelo		ts		Branch/Spec. BA Statistics						
								Version/Pattern NEP 2020					
					2023-24					Admitted in	2024-25		
Subje	Subject Code MD - 201 Subject Name MATHEMATICAL STATISTIC												
			[eaching :				I			scheme (Mar	,		
(Per v	veek)	Lectu	re (DT)	Practi	ical (Lab.)	Total		CE	Ξ	SEE	Total		
		L	TU	Р	TW								
Credit	Credit 4 - 4 Theory 50 50									50	100		
Hours		4	-	-	-	4	Practical	-		-	-		
Pre-re	quisite	es:											
*	The	learner	s should l	nave ba	sic knowled	lge of m	athematics	up to hi	igh sc	chool level.			
		itcome											
*	The	course	outcom	es of	Mathematic	al Stati	stics aim to	o prepa	are s	tudents for 1	rigorous da		
										successful c			
										soning and n			
										their respectiv			
Theor	y Sylla	abus											
Unit						Conten	t				Hou		
1	Det	ermina	ant								15		
_	 Meaning and Definition. 												
	$\rightarrow \text{ Order } 2 \times 2 \text{ and } 3 \times 3.$												
	 Properties (Rules). 												
	 Minors and Co-factors. 												
	 Cramer's Rule. 												
		Exar											
2	Mat										15		
-			ning and	Definit	ion						10		
	 Meaning and Definition. Types of Matrices. 												
	 Operations on Matrices. 												
	 Adjoint and Inverse. 												
	 Examples. 												
3			±								15		
e	 Permutation Meaning and Formula. 										10		
	 Permutations of Different Things. 												
	 Permutations of Different Things. Permutations of Similar Things. 												
	 Circular Permutation. 												
		Exar		aration									
4		nbinat	1								15		
-			ning and	Formu	la.						10		
			-		gs taken son	ne or all	at a time.						
					nbinations.	or all							
		Exar											
Refer		APA St	.								<u> </u>		
				by V K	Kapoor Su	ltan Cha	nd & Sons, N	lew Del	hi				
							Chand & Sons, 14			i.			
							acMillan & C						
							C. O. Oakley						
							Aonga, Vikas						