

1.	OBJECTIVE	To Provide a sound foundation and exposure to statistical ideas. To steer students towards developing a keen interest in statistical thinking. To instill the rational that Statistics is important for scientific research which forms the basic grounds of decision making in every aspect of life.						
2.	DURATION (IN MONTHS)	24 (Full Time)						
3.	INTAKE	45						
4.	RESERVATION	I.Within the sanctioned intake	a) SC (In Percentage)	b) ST (In Pe) ST In Percentage)		erently abled rcentage)	
			15		7.5	3		
		II.Over and above the sanctioned intake	a) Kashmiri Migra (In Seats)	ints	b) International Students (In Percentage)			
			2 15					
5.	ELIGIBILITY	Graduate from any recognised University/ Institution of National Importance with minimum of 50% marks or equivalent grade (45% marks or equivalent grade for Scheduled Caste/ Scheduled Tribes) in 1. B.Sc. with Statistics as principal and Mathematics at subsidiary level 2. B.Sc. with Mathematics as principal and Statistics at subsidiary level 3. B.Sc. in Actuarial Science with Mathematics and Statistics at subsidiary level 4. B.Sc. with Statistics as one of the subjects 5. B.C.S. with Statistics as one of the subjects 7. B.E. with Mathematics/Statistics at subsidiary level.					nt grade for cipal and al and ematics and ects 5. B.C.S.	
6.	SELECTION PROCEDURE	Selection of students is based on: 1. Academic record with minimum 50 percent (45% for SC/ST) at graduation level 2. Performance at the "Writing Aptitude Test (Technical and Academic)" (WAT) and Personal Interaction (PI) which will be conducted in Kolkata, Noida and Pune. WAT is a written test that will be scheduled along with a comprehensive Personal Interaction (PI). 3. Technical and Academic Writing Test - Essay type written test on a general topic to comprehend the writing skills of the candidate. Personal Interaction - Interaction with a panel of experts						
7.	MEDIUM OF INSTRUCTION	English						
8.	PROGRAMME PATTERN	Semester						
9.	COURSE & SPECIALIZATION	As per Annexure A						
10.	FEE		Academic Fee p.a		stitute Depos			



		Indian Students	210000	10000	220000	
		International Students (USD equivalent to INR)	315000	10000	325000	
11.	ASSESSMENT	institute level. All ex		nent as internal evalua re 60% internal compo on.		
12.	STANDARD OF PASSING	The assessment of the student for each examination is done, based on relative performance. Maximum Grade Point (GP) is 10 corresponding to O (Outstanding). For all courses, a student is required to pass both internal and external examination separately with a minimum Grade Point of 4 corresponding to Grade P. Students securing less than 40% absolute marks in each head of passing will be declared FAIL. The University awards a degree to the student who has achieved a minimum CGPA of 4 out of maximum of 10 CGPA for the programme.				
13.	AWARD OF DEGREE/ DIPLOMA/ CERTIFICATE	Master of Science (Applied Statistics) will be awarded at the end of semester IV examination by taking into consideration the performance of all semester examinations after obtaining minimum CGPA of 4 out of maximum of 10 CGPA				

14. |NATURE WISE DISTRIBUTION OF CREDITS

Semester	Generic Core	Generic Elective	Specialization Core	Specialization Elective	Open Elective	Audit	Total	
1	22	0	0	0	0	1*	22	
2	23	0	0	0	0	0	23	
3	13	3	6	0	0	1*	22	
4	13	0	0	0	0	0	13	
Total	71	3	6	0	0	0	80	

^{*} Satisfactory completion of the non letter grade courses 'Integrated Disaster Management' and 'Research Publication' is mandatory for award of degree.

This Programme Structure is aligned with the norms laid down by the University and is approved by the Academic Council.

Hereafter changes (if any) which conform to the policy on "Curriculum Development and Review" would be permissible, subject to revision of the Programme Structure, following the specified processes.

Head - Academics

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Annexure A

Catalog Course Code	Course Code	Course Title	Specialization	Credit	Internal Marks	External Marks	Total Marks
	•	Se	emester : 1	•	•	•	•
			c Core Courses				
T6684	0606410101	Probability Distributions		4	120	80	200
T6697	0606410102	Statistical Inference		4	120	80	200
T6698	0606410103	Stochastic Processes		4	120	80	200
T6687	0606410104	Sampling Theory		4	120	80	200
T6688	0606410105	Statistical Computing		4	120	80	200
T4725	0606410106	Research Methodology		2	60	40	100
T4005	0606410107	Integrated Disaster Management *		0	0	0	Non Letter Grade
			Total	22	660	440	1100
			emester : 2				
			c Core Courses	•	•		•
T6695	0606410201	Probability Theory and Applications		4	120	80	200
T6696	0606410202	Linear Models		4	120	80	200
T6716	0606410203	Time Series Analysis		4	120	80	200
T6702	0606410204	Computer Intensive Statistical Methods		4	120	80	200
T6700	0606410205	Design of Experiments		4	120	80	200
T6699	0606410206	Multivariate Statistics-1		3	90	60	150
			Total	23	690	460	1150
		Se	emester : 3				
		Generi	c Core Courses				_
T6701	0606410301	Multivariate Statistical Analysis-2		4	120	80	200
T6703	0606410302	Statistical Learning and Data Mining		4	120	80	200
F0003	0606410303	Flexi-Credit Course		3	150	0	150
T6708	0606410304	Scientific and Report Writing		2	100	0	100
T0100	0606410305	Research Publication *		0	0	0	Non Letter Grade
	•		Total	13	490	160	650
		Generic Ele	ctive Courses Group	-			•
F0003	0606410306	Flexi-Credit Course		3	150	0	150
F0003	0606410307	Flexi-Credit Course		3	150	0	150
	•	Total	Required Credits	3	150	0	150
	•	Specialization Core Course	·	Data Ana	llysis	ı	T
T6724	0606410308	Survival Analysis	Bio-Statistics and Data Analysis	3	90	60	150



Annexure A

Catalog Course Code	Course Code	Course Title	Specialization	Credit	Internal Marks	External Marks	Total Marks
T6707	0606410309	Demography and Vital Statistics	Bio-Statistics and Data Analysis	3	90	60	150
			Total	6	180	120	300
					-		
		Specialization Cor	e Courses : Data Sci	ience			
T6705	0606410310	Statistical Simulation	Data Science	3	90	60	150
T6849	0606410311	Big Data Analytics	Data Science	3	90	60	150
			Total	6	180	120	300
	Spe	cialization Core Courses : Indu	ustrial Statistics and Industrial Statistics	Operation	s Resear	ch	
	Spe	cialization Core Courses : Indu		Operation	s Resear	ch	
T6852	0606410312	Stochastic Models in Finance	and Operations Research Industrial Statistics	3	90	60	150
T6851	0606410313	Statistical Quality Control	and Operations Research	3	90	60	150
			Total	6	180	120	300
		Se	mester : 4			-	
		Generio	Core Courses				
T6706	0606410401	Statistical Machine Learning		4	120	80	200
T6808	0606410402	Industry Project in Specialization		8	200	200	400
T6709	0606410403	Seminar		1	50	0	50
			Total	13	370	280	650



Semester	Internal Credits	External Credits	Total Credits	Total Marks
	Bio-Sta	atistics and Data Ana	alysis	ļ
Semester 1	0	22	22	1100
Semester 2	0	23	23	1150
Semester 3	8	14	22	1100
Semester 4	1	12	13	650
Total	9	71	80	4000
		Data Science		•
Semester 1	0	22	22	1100
Semester 2	0	23	23	1150
Semester 3	8	14	22	1100
Semester 4	1	12	13	650
Total	9	71	80	4000
	Industrial Sta	tistics and Operation	s Research	
Semester 1	0	22	22	1100
Semester 2	0	23	23	1150
Semester 3	8	14	22	1100
Semester 4	1	12	13	650
Total	9	71	80	4000