

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	·		fferently abled Percentage)	
			15		7.5		3	
		II.Over and above the sanctioned intake	a) Kashmiri Migra (In Seats)	ints	s b) International Students (In Percentage)			
			2			15	5	
5.	ELIGIBILITY	Graduate from any s (45% for SC/ST) in 1. B.Sc. (Second cla level 2. B.Sc. (Second cla level 3. B.Sc. (Second cla subsidiary level 4. B.Sc. (Second cla 5. B C S (Second cla 6. B C A (Second cl 7. B.E. with Mathen	ss) with Statistics as ss) with Mathematic ss) in Actuarial Scie ss), with Statistics as ass), with Statistics a	s as prince with some or some	pal and Mathernation of the subjects of the subjects of the subjects of the subjects.	ematic tatistic cs and	s at subsidiary s at subsidiary	
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	a In	stitute Depo	sit	Total	



		Indian Students	210000	10000	220000	
		International Students (USD equivalent to INR)	315000	10000	325000	
11.	ASSESSMENT	All internal courses will have 100% component as internal evaluation at the institute level. All external courses will have 60% internal component and 40% external component [University] examination.				
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				
1.4	NAME TO BE THE WAR DESCRIPTION OF CREDITS					

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	16	4	3	0	0	1*	23	
4	8	0	0	4	0	0	12	
Total	69	4	3	4	0	0	80	

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

Programme Structure is approved by the Academic Council subject to its norms & conditions. Any provision in the Programme Structure which violates the basic rules & regulations is deemed to be termed "Null & Void".

Head-Academics

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Annexure A

	fears of Excellence		Annexure A	<u> </u>		•	
Catalog Course Code	Course Code	Course Title	Specialization	Credit	Internal Marks	External Marks	Total Marks
			mester : 1				
		•	Core Courses		T	ı	ı
T6684		Probability Distributions		4	120	80	200
T6685		Linear Algebra		4	120	80	200
T6686		Mathematical Analysis		4	120	80	200
T6687		Sampling Theory Statistical Computing		4	120	80 80	200
T6688 T4725		Research Methodology		2	120 60	40	200 100
T4005	0606410107	Integrated Disaster		0	0	0	Non Letter
		Management *	 Total	22	660	440	Grade 1100
		Se	mester : 2	'	•		
		Generio	Core Courses				
T6695	0606410201	Probability Theory and Applications		4	120	80	200
T6696	0606410202	Linear Models		4	120	80	200
T6697	0606410203	Statistical Inference		4	120	80	200
T6698	0606410204	Stochastic Processes		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	mester : 3			-	-
		Generio	Core Courses				
T6701	0606410301	Multivariate Statistical Analysis-2		4	120	80	200
T6702	0606410302	Computer Intensive Statistical Methods		4	120	80	200
T6703	0606410303	Statistical Learning and Data Mining		4	120	80	200
T6904	0606410304	Internship		4	200	0	200
T0100	0606410305	Research Publication *		0	0	0	Non Letter Grade
			Total	16	560	240	800
		Specialization Core Course	s : Bio-Statistics and	Data Ana	lysis	•	•
T6724	0606410306	Survival Analysis	Bio-Statistics and Data Analysis	3	90	60	150
	•		Total	3	90	60	150
		Specialization Co	re Courses : Data Sc	ience			
T6705	0606410307	Statistical Simulation	Data Science	3	90	60	150
	•	•	Total	3	90	60	150
	Spe	cialization Core Courses : Indu	ustrial Statistics and	Operation	s Resear	ch	ļ
T6725		Time Series Analysis	Industrial Statistics and Operations	3	90	60	150
			Research Total	3	90	60	150
		Generic Flec	tive Courses Group				
F0004	0606410309	Flexi-Credit Course		4	200	0	200
F0004		Flexi-Credit Course		4	200	0	200
-	,		Required Credits	4	200	0	200
			mester : 4	<u> </u>	1	<u> </u>	ı
			Core Courses				
T6706	0606410401	Statistical Machine Learning	-	4	120	80	200
T6804	0606410402	Industry Project In Specialization		4	200	0	200
		A	Total	8	320	80	400
			on Elective Courses	\ mal !			
E0004	0606440400	Specialization : Bio-	Statistics and Data A		200	0	200
F0004		Flexi-Credit Course Flexi-Credit Course		4	200	0	200
F0004	10000410404		l tion : Data Science	<u> </u>	<u> </u>	<u> </u>	200
F0004	0606410405	Flexi-Credit Course	non . Data Science	4	200	0	200
		1	1	·		·	



Annexure A

Catalog Course Code	Course Code	Course Title	Specialization	Credit	Internal Marks	External Marks	Total Marks	
F0004	0606410406	Flexi-Credit Course		4	200	0	200	
	Specialization : Industrial Statistics and Operations Research							
F0004	0606410407	Flexi-Credit Course		4	200	0	200	
F0004	0606410408	Flexi-Credit Course		4	200	0	200	
		Total I	Required Credits	4	200	0	200	



Semester	Internal Credits	External Credits	Total Credits	Total Marks
	Bio-Sta	atistics and Data Ana	alysis	
Semester1	0	22	22	1100
Semester2	0	23	23	1150
Semester3	8	15	23	1150
Semester4	8	4	12	600
Total	16	64	80	4000
		Data Science		•
Semester1	0	22	22	1100
Semester2	0	23	23	1150
Semester3	8	15	23	1150
Semester4	8	4	12	600
Total	16	64	80	4000
	Industrial Sta	tistics and Operation	ns Research	
Semester1	0	22	22	1100
Semester2	0	23	23	1150
Semester3	8	15	23	1150
Semester4	8	4	12	600
Total	16	64	80	4000