

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	60						
4.	RESERVATION	I.Within the sanctioned intake	a) SC (In Percentage)	b) ST (In Percentage) c) Differently a (In Percentage)				
			15	7.5			3	
		II.Over and above the sanctioned intake	the sanctioned (In Seats) (In Percentage)					
			2			15		
5.	ELIGIBILITY	minimum of 50% m Scheduled Caste/ Sc 1. B.Sc. with Statist 2. B.Sc. with Mathe 3. B.Sc. in Actuarial 4. B.Sc. with Statist 5. B.C.S. with Statist	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  6. B.C.A. with Statistics as one of the subjects					
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 Institute Deposit Total						
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	Indian Students (Amount in INR)		220000	20000	240000		
	International Students	NRI/ PIO/ OCI Category (Amount in US\$)	4300	275	4575		
	International Students	Foreign National Category (Amount in US\$)	1950	275	2225		
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	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 4.00 CGPA out of 10 CGPA					

### 14. CLASSIFICATION OF CREDITS

Semester	Generic Core	Generic Elective	Specializa- tion Core	Specializa- tion Elective	Open Elective	Non-Letter Grade Mandatory Course/s	Non-Letter Grade Audit Course/s	Total		
Common										
1	21	0	0	0	0	1		21		
2	23	0	0	0	0	0	As per the student's choice	23		
3	15	3	6	0	0	0		24		
4	12	0	0	0	0	0		12		
Total	71	3	6	0	0	0		80		



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.

Director - Academics

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### Annexure A

Catalog Course Code	Course Code	Course Title	Specialization	Credit	Internal Marks	External Marks	Total Marks				
	Semester : 1										
Generic Core Courses											
T6684	0606410101	Probability Distributions		4	120	80	200				
T6695	0606410102	Probability Theory and Applications		4	120	80	200				
T6687	0606410103	Sampling Theory		4	120	80	200				
T6688	0606410104	Statistical Computing		4	120	80	200				
T6699	0606410105	Multivariate Statistics-1		3	90	60	150				
T4725	0606410106	Research Methodology		2	60	40	100				
T4005	0606410107	Integrated Disaster Management		0	0	0	Non - Letter Grade Mandatory				
			Total	21	630	420	1050				
			ster : 2								
		Generic Co	ore Courses								
T6700	0606410201	Design of Experiments		4	120	80	200				
T6696	0606410202	Linear Models		4	120	80	200				
T6701	0606410203	Multivariate Statistical Analysis-2		4	120	80	200				
T6697	0606410204	Statistical Inference		4	120	80	200				
T6698	0606410205	Stochastic Processes		4	120	80	200				
T6725	0606410206	Time Series Analysis		3	90	60	150				
			Total	23	690	460	1150				
		Seme	ster : 3								
		Generic Co	ore Courses		_	,					
T6703	0606410301	Statistical Learning and Data Mining		4	120	80	200				
T6702	0606410302	Computer Intensive Statistical Methods		4	120	80	200				
T6706		Statistical Machine Learning		4	120	80	200				
T6903	0606410304	Internship		3	150	0	150				
			Total	15	510	240	750				
			re Course Group y one course)		-						
F0003	0606410305	Flexi-Credit Course	,	3	150	0	150				
F0003		Flexi-Credit Course		3	150	0	150				
	•		Required Credits	3	150	0	150				
		On a siglination Orang Orang	Dia Otatiatica au LD	_4_ 4 '							
T6724	0606410307	Specialization Core Courses : Survival Analysis	Bio-Statistics and D Bio-Statistics and Data Analysis	ata Ana	90	60	150				





#### **Annexure A**

Catalog Course Code	Course Code	Course Title	Specialization	Credit	Internal Marks	External Marks	Total Marks
T6707	0606410308	Demography and Vital Statistic	Bio-Statistics and Data Analysis	3	90	60	150
			Total	6	180	120	300
		Specialization Core	Courses : Data Scien	се			
T6705	0606410309	Statistical Simulation	Data Science	3	90	60	150
T6849	0606410310	Big Data Analytics	Data Science	3	90	60	150
			Total	6	180	120	300
				•			
	Special	ization Core Courses : Indust	rial Statistics and Op	eration	s Resear	ch	
T6852	0606410311	Stochastic Models in Finance	Industrial Statistics and Operations Research	3	90	60	150
T6851	0606410312	Statistical Quality Control	Industrial Statistics and Operations Research	3	90	60	150
			Total	6	180	120	300
		Specialization Core Cou	ırses : Actuarial Stat	istics			
T6724	0606410307	Survival Analysis	Actuarial Statistics	3	90	60	150
T6848	0606410313	Actuarial Mathematics	Actuarial Statistics	3	90	60	150
			Total	6	180	120	300
		Seme	ester : 4				
		Generic C	ore Courses				
T6810	0606410401	Industry Project in Specialization		10	300	200	500
T6802	0606410402	Seminar		2	100	0	100
			Total	12	400	200	600

WAA.



Semester	Internal Credits	External Credits	Total Credits	Total Marks				
Common								
Semester 1	0	21	21	1050				
Semester 2	0	23	23	1150				
Semester 3	6	18	24	1200				
Semester 4	2	10	12	600				
Total	8	72	80	4000				

