

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)			c) Differently abled (In Percentage)		
			15		7.5	3		
		II.Over and above the sanctioned intake	a) Kashmiri Migra (In Seats)	ants	b) International Students (In Percentage)			
			2			15		
5.	ELIGIBILITY	1. B.Sc. (Second clalevel 2. B.Sc. (Second clalevel 3. B.Sc. (Second clasubsidiary level 4. B.Sc. (Second clasubsidiary level 5. B C S (Second clasubsidiary clause)	2. B.Sc. (Second class) with Mathematics as principal and Statistics at subsidiary level3. B.Sc. (Second class) in Actuarial Science with Mathematics and Statistics at					
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 Ir	stitute Depo	sit Total		



		Indian Students	193000	10000	203000	
		International Students (USD equivalent to INR)	290000	10000	300000	
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				
	NA WEIDE WASE PASSED VICE OF SPECIAL					

14. NATURE WISE DISTRIBUTION OF CREDITS

Semester	Generic Core	Generic Elective	Specialization Core	Specialization Elective	Open Elective	Audit	Total	
1	20	0	0	0	0	1*	20	
2	23	0	0	0	0	0	23	
3	20	0	3	0	0	0	23	
4	14	0	0	0	0	1*	14	
Total	77	0	3	0	0	0	80	

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

The revised programme structure supersedes the previously approved programme structure dated 27/04/2020 for the programme.

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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22/12/2020 (R-02)



Annexure A

Catalog Course	Course Code	Course Title	Specialization	Credit	Internal Marks	External Marks	Total Marks
Code		<u> </u>	 mester : 1				
			Core Courses				
T6684	060641101	Probability Distributions		4	120	80	200
T6685	060641102	Linear Algebra		4	120	80	200
T6686	060641103	Mathematical Analysis		4	120	80	200
T6687	060641104	Sampling Theory		4	120	80	200
T6688	060641105	Statistical Computing		4	120	80	200
T4005	060641106	Integrated Disaster Management *		0	0	0	Non Letter Grade
			Total	20	600	400	1000
		Se	mester : 2	•	•	•	•
		Generio	Core Courses				
T6695	060641201	Probability Theory and Applications		4	120	80	200
T6696	060641202	Linear Models		4	120	80	200
T6697	060641203	Statistical Inference		4	120	80	200
T6698	060641204	Stochastic Processes		4	120	80	200
T6700	060641205	Design of Experiments		4	120	80	200
T6699	060641206	Multivariate Statistics-1		3	90	60	150
			Total	23	690	460	1150
		Se	mester : 3				
		Generio	Core Courses	,			
T6717	060641301	Optimization Techniques		4	200	0	200
T6701	060641302	Multivariate Statistical Analysis-2		4	120	80	200
T6702	060641303	Computer Intensive Statistical Methods		4	120	80	200
T6703	060641304	Statistical Learning and Data Mining		4	120	80	200
T6904	060641305	Internship		4	200	0	200
			Total	20	760	240	1000
		Specialization Core Course	s : Bio-Statistics and	Data Ana	lysis		
T6724	060641306	Survival Analysis	Bio-Statistics and Data Analysis	3	90	60	150
	-	•	Total	3	90	60	150
		Specialization Co	re Courses : Data Sc	ience			
T6705	060641307	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	



Annexure A

Catalog Course Code	Course Code	Course Title	Specialization	Credit	Internal Marks	External Marks	Total Marks
T6725	060641308	Time Series Analysis	Industrial Statistics and Operations Research	3	90	60	150
			Total	3	90	60	150
		Se	mester : 4				
		Generio	Core Courses				
T6721	060641401	Big Data Analytics		4	200	0	200
T6706	060641402	Statistical Machine Learning		4	120	80	200
T6804	060641403	Industry Project In Specialization		4	200	0	200
T6708	060641404	Scientific and Report Writing		2	100	0	100
T0100	060641405	Research Publication *		0	0	0	Non Letter Grade
			Total	14	620	80	700



Semester	Internal Credits	External Credits	Total Credits	Total Marks
	Bio-Sta	ntistics and Data Ana	alysis	
Semester1	0	20	20	1000
Semester2	0	23	23	1150
Semester3	8	15	23	1150
Semester4	10	4	14	700
Total	18	62	80	4000
		Data Science		•
Semester1	0	20	20	1000
Semester2	0	23	23	1150
Semester3	8	15	23	1150
Semester4	10	4	14	700
Total	18	62	80	4000
	Industrial Sta	tistics and Operation	ns Research	
Semester1	0	20	20	1000
Semester2	0	23	23	1150
Semester3	8	15	23	1150
Semester4	10	4	14	700
Total	18	62	80	4000