1.	OBJECTIVE	 -To provide scientific skills and intensive training in Statistics and Data Science to develop data analytics insight with hands-on training -To impart identified set of skills and values at each stage of learning at graduation and post- graduation level through integrated course -To empower candidates to apply relevant statistics and Data Science techniques to solve business and domain specific complex problems -To help developing holistic individuals and responsible citizens. 					
2.	DURATION (IN MONTHS)	48 (Full Time)					
3.	INTAKE	60					
4.	RESERVATION	I.Within the sanctioned intake	a) SC (In Percentage)	b) ST (In Pe	ercentage)	c) Differently abled (In Percentage)	
			15		7.5	3	
		II.Over and above the sanctioned intake	a) Kashmiri Migra (In Seats)	nts	b) Internatio (In Percenta	onal Students age)	
			2			15	
5.	ELIGIBILITY	minimum of 50% m Scheduled Caste / So	Std. XII $(10 + 2)$ pass or equivalent examination from any recognized Board with a minimum of 50% marks or equivalent grade (45% Marks or equivalent grade for Scheduled Caste / Scheduled Tribes), with Mathematics as one of the subjects. Students who wish to opt for Honours with Research must earn a 7.5 CGPA and				
6.	SELECTION PROCEDURE	 Symbiosis Entran Personal Interaction 	ce Test (SET) on (PI) for shortlisted	d candi	idates based o	n SET	
7.	MEDIUM OF INSTRUCTION	English					
8.	PROGRAMME PATTERN	Semester					
9.	COURSE & SPECIALISATION	As per Annexure A	As per Annexure A				
10.	FEE		Academic Fee p.a	ı In	stitute Depos	sit Total	
		Indian Students	236500		20000	256500	
		International Students (USD equivalent to INR)	355000		20000	375000	
	International Students	NRI/ PIO/ OCI Category (Amount in US\$)	355000		20000	375000	

11.	ASSE	SSMENT	[Universit	The courses will have 40% Continuous Assessment and 60% Term End [University] examination however, some courses (not more than 30% of the total programme credits) may have 100% Continuous Assessment.					
17	STAN PASS	DARD OF ING	The assess performar For all co separately securing 1 FAIL. The	sment of the stude nce. Maximum Gr urses, a student is with a minimum ess than 40% abso University awar 4 out of maximum	ent for each exan rade Point (GP) is required to pass Grade –Point of olute marks in e ds a degree to th	nination is done, s 10 correspondi s both internal ar f 4 corresponding ach head of pass e student who ha	based on ing to O (C ad external g to Grade ing will be as achieved	Outstanding) examination P. Students declared	
	DIPL	RD OF DEGI OMA/ IFICATE	end of the examinati OR Bachelor REE/ at the end	of Science (Appli semester-6 by ta ons subject to obtoo of Science (Appli of the semester-8 examinations subj	king into consid taining a minimu ed Statistics and 3 by taking into 6	eration the perfo im of 4.00 CGPA Data Science) H consideration the	rmance of A out of 10 Honours with performation	all semester CGPA. ill be awardence of all	
		-	will be aw performar CGPA out	of Science (Appli varded at the end toce of all semeste t of 10 CGPA.	of the semester-	8 by taking into	considerat	tion the	
14.		-	Bachelor will be aw performar	varded at the end once of all semesters to f 10 CGPA.	of the semester- r examinations s	8 by taking into subject to obtaini	considerat	tion the	
4.	CLAS	SIFICATION Generic Core	Bachelor will be aw performar CGPA out N OF CREDITS Generic Elective	varded at the end once of all semesters tof 10 CGPA. Specialisation Core	of the semester- r examinations s Specialisation Elective	8 by taking into ubject to obtaini Open Elective	considerat ng a minir Audit	ion the num 4.00	
4.	CLAS nester	SIFICATION	Bachelor of will be aw performar CGPA out N OF CREDITS Generic Elective	Arded at the end once of all semesters of 10 CGPA. Specialisation Core 0	of the semester- r examinations s Specialisation Elective	8 by taking into subject to obtain Open Elective	considerating a minir Audit 1*	ion the num 4.00	
4.	CLAS nester	SIFICATION Generic Core 17 23	Bachelor of will be aw performar CGPA out N OF CREDITS Generic Elective 2 0	varded at the end once of all semesters of 10 CGPA. Specialisation Core 0 0 0 0	of the semester- r examinations s Specialisation Elective 0 0	8 by taking into subject to obtain Open Elective 0 0	considerating a minir Audit 1* 1*	tion the num 4.00	
4.	CLAS nester	SIFICATION Generic Core 17 23 21	Bachelor of will be aw performar CGPA out N OF CREDITS Generic Elective	Arded at the end once of all semesters of 10 CGPA. Specialisation Core 0	of the semester- r examinations s Specialisation Elective	8 by taking into subject to obtain Open Elective	considerating a minir Audit 1*	Total 19 23 21	
4.	CLAS nester	SIFICATION Generic Core 17 23	Bachelor of will be aw performar CGPA out N OF CREDITS Generic Elective 2 0	varded at the end once of all semesters of 10 CGPA. Specialisation Core 0 0 0 0	of the semester- r examinations s Specialisation Elective 0 0	8 by taking into subject to obtain Open Elective 0 0	considerating a minir Audit 1* 1*	Total	
4.	CLAS nester 1 2 3	SIFICATION Generic Core 17 23 21	Bachelor of will be aw performar CGPA out N OF CREDITS Generic Elective 2 0 0	Arded at the end once of all semesters to f 10 CGPA. Specialisation Core 0 0 0 0 0	of the semester- r examinations s Specialisation Elective 0 0 0	8 by taking into subject to obtain Open Elective 0 0 0	Considerating a minir Audit 1* 1* 1* 1*	Total 19 23 21	
4.	CLAS nester 1 2 3 4	SIFICATION Generic Core 17 23 21 21 21	Bachelor of will be aw performar CGPA out N OF CREDITS Generic Elective 2 0 0 0	Arded at the end once of all semesters of 10 CGPA. Specialisation Core 0 0 0 0 0 0 0 0	of the semester- r examinations s Specialisation Elective 0 0 0 0 0	8 by taking into subject to obtain Open Elective 0 0 0 0	Considerating a minir Audit 1* 1* 1* 0	Total 19 23 21 21	
<u>4.</u>	CLAS nester 1 2 3 4 5	SIFICATION Generic Core 17 23 21 21 21 21	Bachelor of will be aw performar CGPA out N OF CREDITS Generic Elective 2 0 0 0 0 0 0 0 0 5 7	Arded at the end once of all semesters to f 10 CGPA. Specialisation Core 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	of the semester- r examinations s Specialisation Elective 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 by taking into aubject to obtain Open Elective 0 0 0 0 0 0 0 0 0 0 0 0 0	Considerating a minir Audit 1* 1* 0 0	Total 19 23 21 21 21 21	
14. Sen	CLAS nester 1 2 3 4 5 6	SIFICATION Generic Core 17 23 21 21 21 21 21 16 119	Bachelor of will be aw performar CGPA out N OF CREDITS Generic Elective 2 0 0 0 0 0 0 5 7 Hc	Arded at the end once of all semesters of 10 CGPA. Specialisation Core 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	of the semester- r examinations s Specialisation Elective 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 by taking into abject to obtain Open Elective 0 0 0 0 0 0 0 0 0 0 0	considerating a minir Audit 1* 1* 0 0 0 0 0 0 0 0 0	Total 19 23 21 21 21 21 21 21	
14. Sen	CLAS nester 1 2 3 4 5 6	SIFICATION Generic Core 17 23 21 21 21 21 21 21 16	Bachelor of will be aw performar CGPA out N OF CREDITS Generic Elective 2 0 0 0 0 0 0 0 0 0 5 7 Hc 0	Arded at the end once of all semesters to f 10 CGPA. Specialisation Core 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	of the semester- r examinations s Specialisation Elective 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 by taking into aubject to obtain Open Elective 0 0 0 0 0 0 0 0 0 0 0 0 0	considerating a minir Audit 1* 1* 0 0 0 0 0 0 0 0 0	Total 19 23 21 21 21 21 21 21	
14. Sen	CLAS nester 1 2 3 4 5 6 otal	SIFICATION Generic Core 17 23 21 21 21 21 21 16 119	Bachelor of will be aw performar CGPA out N OF CREDITS Generic Elective 2 0 0 0 0 0 0 5 7 Hc	Arded at the end once of all semesters of 10 CGPA. Specialisation Core 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	of the semester- r examinations s Specialisation Elective 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 by taking into abject to obtain Open Elective 0 0 0 0 0 0 0 0 0 0 0	considerating a minir Audit 1* 1* 0 0 0 0 0 0	Total 19 23 21 21 21 21 21 21 21 126	

* Satisfactory completion of the non letter grade course 'Integrated Disaster Management', 'Fitness for Life' and 'Core Environmental Studies' is mandatory for the award of degree.



The revised programme structure supersedes the previously approved programme structure dated 28/02/2024 for the programme.

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	Specialisation	Credit	Internal Marks	External Marks	Total Marks
			nester : 1				
		Generic	Core Courses				
T6981		Probability Theory		4	40	60	100
T6984		Statistical Data Analysis-I		4	40	60	100
T6978		Mathematics for Data Science		4	40	60	100
T6973	0606210104	Discrete Mathematics		4	40	60	100
T6926	0606210105	Dictionary making across Indian languages		1	25	0	25
TH4095	0606210106	Fitness for Life *		0	0	0	Non - Letter Grade
			Total	17	185	240	425
		Generic Elect	ive Courses Group				
T6925	0606210107	Cultural and Heritage Education		2	50	0	50
T4666	0606210108	Well for Life		2	50	0	50
T6095	0606210109	Culture and Communication		2	50	0	50
		Total F	Required Credits	2	50	0	50
		Sen	nester : 2				
		Generic	Core Courses				
T6985	0606210201	Statistical Data Analysis-II		4	40	60	100
T6971	0606210202	Design and Analysis of Sample Survey Techniques		5	50	75	125
T6684	0606210203	Probability Distributions		4	40	60	100
T6983	0606210204	Statistical Data Analysis Using Microsoft Excel		4	40	60	100
T6977	0606210205	Lilavati		2	20	30	50
T6979	0606210206	Numerical Methods		4	40	60	100
T4005	0606210207	Integrated Disaster Management *		0	0	0	Non - Letter Grade
			Total	23	230	345	575
			nester: 3				
		Generic	Core Courses	1	-		
T6975		Hypothesis Testing		4	40	60	100
T6966		Calculus for Data Science		3	30	45	75
T6970	0606210303	Database Management System		4	40	60	100
T6774	0606210304	Principles of Economics		2	20	30	50
T1314	0606210305	Corporate Governance and Finance		2	50	0	50
T4015	0606210306	Comparative Health Systems		1	25	0	25



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Catalan			Annexure	A		i i	
Catalog Course Code	Course Code	Course Title	Specialisation	Credit	Internal Marks	External Marks	Total Marks
F6009	0606210307	Art Integrated Cultural Education		1	25	0	25
T6804	0606210308	Project - I		4	100	0	100
T2883	0606210309	Core Environmental Studies *		0	0	0	Non - Letter Grade
			Total	21	330	195	525
		Sor	nester : 4				
			Core Courses				
T6972	0606210401	Designs of Experiments and		4	40	60	100
		Analysis					
T6967		Data Science I		4	40	60	100
T6965		Actuarial Statistics		2	20	30	50
T6007		Business Communication		2	50	0	50
T6976	0606210405	Introduction to R		4	40	60	100
T6974	0606210406	Global Citizenship: World is one family		1	25	0	25
T8000	0606210407	Service Learning		4	0	100	100
			Total	21	215	310	525
		-					
			nester : 5 Core Courses				
T6697	0606210501	Statistical Inference		4	40	60	100
T6968		Data Science II		3	30	45	75
T6706		Statistical Machine Learning		4	40	60	100
T6969		Data Visualization		4	40	60	100
FHM6030		Statistics in Sports		2	50	0	50
T6988	0606210506			2	20	30	50
T3198		Introduction to Python		2	50	0	50
			Total	21	270	255	525
					•		
			nester : 6				
	0606240604		Core Courses	1	10	60	100
		Bayesian Inference		4	40	60 60	100
	0606210602			4	40	60	100
	0606210604			6	60	90	150
HIVI6026	0006210605	Data Acquisition Tools	T - 4 - 1	2	50	0	50
			Total	16	190	210	400



			Annexure A	4			
Catalog Course Code	Course Code	Course Title	Specialisation	Credit	Internal Marks	External Marks	Total Marks
THM6029	0606210603	Questionnaire Development		2	50	0	50
T8732	0606210606	Design Thinking		3	30	45	75
T6805	0606210607	Project - II		5	50	75	125
		Total I	5	80	45	125	
			mester : 7				
			ours with Research Core Courses				
THM6027	0606210705	Technical or Report Writing		2	50	0	50
THM6032	0606210701	Stochastic Processes		6	60	90	150
THM6038	0606210702	Optimization Techniques		4	40	60	100
THM6124	0606210703	Statistical Quality Control		4	40	60	100
THM6035	0606210704	Reliability and Survival Analysis		4	40	60	100
			Total	20	230	270	500
			mester : 8				
			onours Core Courses				
THM6039	0606210801	Research Methodology		2	50	0	50
F0003		Flexi-Credit Course		3	75	0	75
T7523		Data Mining		4	40	60	100
T6906		Internship		6	150	0	150
			Total	15	315	60	375
			with Research Core Courses		-		
T6812	0606210802	Research Project		12	300	0	300
F0001	0606210803	Flexi-Credit Course		1	25	0	25
			Total	13	325	0	325



Semester	Internal Credits	External Credits	Total Credits	Total Marks
		Common		1
Semester 1	3	16	19	475
Semester 2	0	23	23	575
Semester 3	8	13	21	525
Semester 4	3	18	21	525
Semester 5	4	17	21	525
Semester 6	4	17	21	525
Total	22	104	126	3150
		Honours		•
Semester 7	2	18	20	500
Semester 8	11	4	15	375
Total	13	22	35	875
	Но	nours with Research	1	•
Semester 7	2	18	20	500
Semester 8	15	0	15	375
Total	17	18	35	875

17/12/2024 (R-3)

Symbiosis Statistical Institute, Pune Bachelor of Science (Applied Statistics and Data Science) Programme Structure 2022-26

