

1.	OBJECTIVE	 Provide expertise in laboratory-based techniques. Impart skill sets to formulate and execute independent research project. Enable students with skill sets to carve a career as a researcher in the field of biotechnology. Empower students with an ability to translate biotechnology research skill set to provide sustainable solutions to societal issues. 						
2.	DURATION (IN MONTHS)	24 (Full Time)						
3.	INTAKE	40						
4.	RESERVATION	I.Within the sanctioned intake						
			15		7.5	3		
		II.Over and above the sanctioned intake	the sanctioned (In Seats) (In Percentage)					
			2 15					
5.	ELIGIBILITY	Sciences OR Gradua in Biotechnology fro Importance and mus		Biotec niversi nimum	hnology/ Grad ty/ Institution of 50% mark	duate of Technology of National s or equivalent grade		
6.	SELECTION PROCEDURE	Written Test / Person	nal Interaction					
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					
	M.Sc. (Biotechnology)							
		Indian Students	210000		20000	230000		
		International Students (USD 315000 20000 335000 equivalent to INR)						
		M.Sc. Biotechnol	ogy (By Research) 1	lst Yea	r			



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		Indian Students	210000	20000	230000			
		International Students (USD equivalent to INR)	315000	20000	335000			
		M.Sc. Biotechnolog	gy (By Research) 2nd	Year				
		Indian Students	420000	0	420000			
		International Students (USD equivalent to INR)	630000	0	630000			
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% component as external (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 (Oustanding). For all courses, a student is required to pass both internal and external examination separately with a minimum Grade Point of 4.000 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 4.000 out of maximum of 10 CGPA for the program.						
13.	AWARD OF DEGREE/ DIPLOMA/ CERTIFICATE	Students opting for Stream-A of the programme will be awarded Master of Science (Biotechnology) at the end of semester IV examination after taking into consideration the performance of all semester examinations after obtaining minimum 4.00 CGPA out of 10 CGPA. Students opting for Stream-B of the programme will be awarded Master of Science (Biotechnology) with specific mention of "By Research" on the degree certificate after taking into consideration the performance of all semester examinations after obtaining minimum 4.00 CGPA out of 10 CGPA.						

14. NATURE WISE DISTRIBUTION OF CREDITS

Semester	Generic Core	Generic Elective	Specialization Core	Specialization Elective	Open Elective	Audit	Total		
	Stream A								
1	20	0	0	0	0	1*	20		
2	20	0	0	0	0	1*	20		
3	18	2	0	0	0	1*	20		
4	20	0	0	0	0	0	20		
Total	78	2	0	0	0	0	80		
			Strear	n B					
1	20	0	0	0	0	1*	20		
2	20	0	0	0	0	1*	20		
3	20	0	0	0	0	1*	20		
4	20	0	0	0	0	0	20		

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Total	80	0	0	0	0	0	80

^{*} Satisfactory completion of the non letter grade courses 'Integrated Disaster Management' and 'Research Publication' and 'Certificate in COVID-19 Care for the Community' is mandatory for award of degree.

The revised programme structure supersedes the previously approved programme structure dated 21/05/2021 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.

Head - Academics

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Annexure A

Catalog Course Code	Course Code	Course Title	Specialization	Credit	Internal Marks	External Marks	Total Marks			
	Semester : 1									
			Core Courses							
TH4099		Biochemistry		3	90	60	150			
TH4097	0403420102	0,		3	90	60	150			
		Advanced Molecular Biology		3	90	60	150			
TH4107	0403420104	<u> </u>		3	90	60	150			
TH4104	0403420105	<u> </u>		3	90	60	150			
	0403420106	Research Methodology and Biostatistics		3	90	60	150			
TH4103	0403420107	,		2	60	40	100			
TH4272	0403420108	Certificate in COVID-19 Care for the Community *		0	0	0	Non Letter Grade			
			Total	20	600	400	1000			
		Se	mester : 2							
		Generio	Core Courses							
TH4113	0403420201	Practicals in microbiology		3	90	60	150			
		Practicals in Biochemistry		3	90	60	150			
	0403420203			3	90	60	150			
TH4114	0403420204	<u> </u>		3	90	60	150			
TH4108	0403420205	Practicals in Animal Tissue Culture		2	60	40	100			
TH4115	0403420206	Practicals in Recombinant DNA Technology		2	60	40	100			
TH4111	0403420207	Practicals in Bioinformatics		2	60	40	100			
TH4105	0403420208	Genomics, Proteomics and Bioinformatics		2	60	40	100			
T4005	0403420209	Integrated Disaster Management *		0	0	0	Non Letter Grade			
			Total	20	600	400	1000			
		Se	mester : 3			•				
			tream - A : Core Courses							
T0100	0403420301	Research Publication *		0	0	0	Non Letter Grade			
TH4109	0403420302	Practicals in Bioanalytical Techniques		3	90	60	150			
TH4118	0403420303	Virology		3	90	60	150			
TH4112	0403420304	Practicals in Immunology and Virology		3	90	60	150			
TH4100	0403420305	Bioprocess engineering		3	90	60	150			
TH4106	0403420306	Introduction to Laboratory Animal Science		2	60	40	100			

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Annexure A

Catalog Course Code	Course Code	Course Title	Specialization	Credit	Internal Marks	External Marks	Total Marks
TH4117	0403420307	Stem Cell Biology		2	60	40	100
T1656	0403420308	Intellectual Property Rights		2	60	40	100
		Total	Required Credits	18	540	360	900
		_	tream - A Elective Courses				
TH4096	0403420309	Advanced Genomics and Proteomics		2	60	40	100
TH4102	0403420310	Environmental Biotechnology		2	60	40	100
		Total	Required Credits	2	60	40	100
			B (By Research) Core Courses		_		
T0100	0403420301	Research Publication *		0	0	0	Non Letter Grade
T4820	0403420311	Project (Part I)		20	600	400	1000
		Total	Required Credits	20	600	400	1000
		Se	mester : 4	•	•	•	
		_	tream - A Core Courses				
T4820	0403420401	Project		20	600	400	1000
		Total	Required Credits	20	600	400	1000
			B (By Research) Core Courses				
T4820	0403420402	Project (Part II)		20	600	400	1000
		Total	Required Credits	20	600	400	1000



Semester	Internal Credits	External Credits	Total Credits	Total Marks
	•			
Semester 1	0	20	20	1000
Semester 2	0	20	20	1000
Semester 3	0	20	20	1000
Semester 4	0	20	20	1000
Total	0	80	80	4000