

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	a) SC (In Percentage) b) ST (In Percentage) c) Differently able (In Percentage)					
			15		7.5		3	
		II.Over and above the sanctioned intake	the sanctioned (In Seats) (In Percentage)					
			2			15		
5.	ELIGIBILITY	Graduate in Life Sci Sciences OR Gradua in Biotechnology fro Importance and mus (45% or equivalent)	ate of Engineering in om any recognized U of have obtained a mi	Biotec Iniversi Inimum	hnology/ Gra ty/ Institution of 50% mark	duate of Nat of Nat as or equ	of Technology tional uivalent 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 T				Total	
		M.Sc.	(Biotechnology)					
		Indian Students	220000		20000		240000	
		International Students (USD 330000 20000 350000 equivalent to INR)						
		M.Sc. Biotechnol	ogy (By Research)	1st Yea	r			

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		Indian Students	220000	20000	240000					
		International Students (USD equivalent to INR)	330000	20000	350000					
	M.Sc. Biotechnology (By Research) 2nd Year									
Indian Students 440000 0										
		International Students (USD equivalent to INR)	660000	0	660000					
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. CLASSIFICATION OF CREDITS

Semester	Generic Core	Generic Elective	Specialization Core	Specialization Elective	Open Elective	Audit	Total		
	Stream A								
1	20	0	0	0	0	0	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	0	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', 'Research Publication' is mandatory for award of degree.

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
	•	Se	mester : 1				
		Generio	Core Courses				
TH4099	0403420101	Biochemistry		3	90	60	150
TH4110	0403420102	Practicals in Biochemistry		3	90	60	150
TH4098	0403420103	Advanced Molecular Biology		3	90	60	150
TH4107	0403420104	Microbiology		3	90	60	150
TH4114	0403420105	Practicals in Molecular Biology		3	90	60	150
TH4116	0403420106	Research Methodology and Biostatistics		3	90	60	150
TH4103	0403420107	Genetic analysis		2	60	40	100
			Total	20	600	400	1000
		Se	mester : 2	•			
		Generio	Core Courses				
TH4113	0403420201	Practicals in Microbiology		3	90	60	150
TH4097	0403420202	Advanced Immunology		3	90	60	150
TH4101	0403420203	Cell Biology		3	90	60	150
TH4104	0403420204	Genetic Engineering		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				
TH4100	0403420301	Bioprocess engineering		3	90	60	150
TH4109	0403420302	Practicals in Bioanalytical Techniques		3	90	60	150
TH4112	0403420303	Practicals in Immunology and Virology		3	90	60	150
TH4118	0403420304	9.		3	90	60	150
T1656	0403420305	Intellectual Property Rights		2	60	40	100
TH4106	0403420306	Introduction to Laboratory Animal Science		2	60	40	100
TH4117	0403420307	Stem Cell Biology		2	60	40	100
T0100	0403420308	Research Publication *		0	0	0	Non Letter Grade

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Annexure A

Catalog Course Code	Course Code	Course Title	Specialization	Credit	Internal Marks	External Marks	Total Marks			
		Total I	Required Credits	18	540	360	900			
	Stream - A Generic Elective Courses									
TH4096	0403420309	Advanced Genomics and Proteomics		2	60	40	100			
TH4102	0403420310	Environmental Biotechnology		2	60	40	100			
		Total I	Required Credits	2	60	40	100			
			B (By Research) Core Courses							
T0100	0403420308	Research Publication *		0	0	0	Non Letter Grade			
T4820	0403420311	Project (Part I)		20	600	400	1000			
		Total I	Required Credits	20	600	400	1000			
		Se	mester : 4		_					
		Stream - A (Generi	c Elective Courses C	Froup)						
T4820	0403420401	Project		20	600	400	1000			
T4920	0403420402	Internship		20	600	400	1000			
		Total 1	Required Credits	20	600	400	1000			
		Stream -	B (By Research)							
T4820	0403420403	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	

