

Symbiosis School of Biological Sciences, Pune Master of Science (Biotechnology) Programme Structure 2023-25

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)	A								
3.	INTAKE	40	40								
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 intakea) Kashmiri Migrants (In Seats)b) International Students (In Percentage)									
			2			20					
5.	ELIGIBILITY	Graduate in Life Sciences/ Health Sciences/ Biotechnology/ any other Biological Sciences OR Graduate of Engineering in Biotechnology/ Graduate of Technology in Biotechnology from any recognized University/ Institution of National Importance and must have obtained a minimum of 50% marks or equivalent grade (45% or equivalent grade for Scheduled Caste/ Scheduled Tribes) at graduation									
6.	SELECTION PROCEDURE	Written Test / Personal Interaction									
7.	MEDIUM OF INSTRUCTION	English									
8.	PROGRAMME PATTERN	Semester									
9.	COURSE & SPECIALIZATION	As per Annexure A									
10.	FEE		Academic Fee p.a	a In	stitute Depos	sit	Total				
		M.Sc.	(Biotechnology)								
	Indian Students (Amount in INR)		240000		20000		260000				
	International Students	NRI/ PIO/ OCI Category (Amount in US\$)	4700		275		4975				
		Foreign National Category (Amount in US\$)	1950		275		2225				
		M.Sc. Biotechnol	ogy (By Research)	lst Yea	ar						



09/08/2023







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		ndian Studer mount in IN				24	.0000	2000	0	260000
	International Students			RI/ PIO/ OC Category nount in US	4	700	275		4975	
	International Students				eign Nation: Category nount in US\$	1	950	275		2225
	_			M.	Sc. Biotechn	ology (By R	esearch) 2nd	Year		
		ndian Studer mount in IN				48	30000	0		480000
	International Students				RI/ PIO/ OC Category nount in US	9	9400	0		9400
					eign Nationa Category nount in USS	3	900	0		3900
11.	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.	2. 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 minimum CGPA of 4.000 out of maximum of 10 CGPA for the program.							Oustanding). examination de P. g will be achieved a		
13. AWARD OF DEGREE				Stud (Bio cons mini Stud (Bio after	ents opting for technology) a ideration the mum 4.00 Co lents opting for technology) v	or Stream-A of at the end of s performance GPA out of 1 or Stream-B of with specific onsideration	of the progra semester 4 ex of all semes 0 CGPA. of the program mention of " the performa	mme will be camination af ter examinati mme will be By Research' mce of all ser	awarded Maste ter taking into ons after obtai awarded Maste ' on the degree nester examina	er of Science ning er of Science certificate
14.	CLAS	SIFICATIO	N OF C		DITS					
Ser	nester	Generic Core	Gene Elect		Specializa- tion Core	Specializa- tion Elective	Open Elective	Non-Letter Grade Mandatory Course/s	Non-Letter Grade Audit Course/s	Total
					·	Stream A				
	1	20	0		0	0	0	0		20
	2	20	0		0	0	0	1	As per the	20



							student's choice		
3	18	2	0	0	0	0		20	
4	0	20	0	0	0	0		20	
Total	58	22	0	0	0	0		80	
Stream B									
1	20	0	0	0	0	0		20	
2	20	0	0	0	0	1	As per the student's choice	20	
3	20	0	0	0	0	0		20	
4	20	0	0	0	0	0		20	
Total	80	0	0	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

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Catalog Course Code	Course Code	Course Title	Specialization	Credit	Internal Marks	External Marks	Total Marks
		Seme	ster : 1		•		
		Generic Co	ore 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
		Seme	ster: 2				
			ore 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 Mandatory
			Total	20	600	400	1000
			ster: 3				
			im - A ore 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	Virology		3	90	60	150
T1656	0403420305	Intellectual Property Rights		2	60	40	100
TH4106	0403420306	Introduction to Laboratory Animal Science		2	60	40	100
				2	60	40	100



Course

Code

Catalog

Course

Code

Total

Marks

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	Annexure A			
Course Title	Specialization	Credit	Internal Marks	External Marks

		Total	Required Credits	18	540	360	900
			e Course Group se any one course)				
TH4096	0403420308	Advanced Genomics and Proteomics		2	60	40	100
TH4102	0403420309	Environmental Biotechnology		2	60	40	100
		Total	Required Credits	2	60	40	100
		(By Re	ore Course search)				
T4820	0403420310	Project (Part I)		20	600	400	1000
		Required Credits	20	600	400	1000	
		Seme	ster:4				
			e Course Group se any one course)				
T4820	0403420401	Project		20	600	400	1000
T4920	0403420402	Internship		20	600	400	1000
		Total	Required Credits	20	600	400	1000
		Generic C	im - B ore Course search)			-	
T4820	0403420403	Project (Part II)		20	600	400	1000





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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

