

Symbiosis School of Biological Sciences, Pune
Master of Science (Biochemistry)
Programme Structure 2024-26

1.	OBJECTIVE	1. Provide expertise in laboratory-based biochemical techniques. 2. Impart skill sets to formulate and execute independent research project. 3. Enable students with skill sets to carve a career as a researcher in the field of biochemistry. 4. Empower students with an ability to translate biochemistry research skill set to provide sustainable solutions to societal issues.			
2.	DURATION (IN MONTHS)	24 (Full Time)			
3.	INTAKE	30			
4.	RESERVATION	I.Within the sanctioned intake	a) SC (In Percentage)	b) ST (In Percentage)	c) Differently abled (In Percentage)
			15	7.5	3
		II.Over and above the sanctioned intake	a) Kashmiri Migrants (In Seats)	b) International Students (In Percentage)	
			2	20	
5.	ELIGIBILITY	Graduate in Science with Chemistry as one of the subjects in the third year OR Graduate in Life Sciences/ Health Sciences/ Biotechnology/ any other Biological Science from any recognized University/ Institution of National Importance with a minimum of 50% marks or equivalent grade (45% or equivalent grade for Scheduled Caste/Scheduled Tribes)			
6.	SELECTION PROCEDURE	Written Test / Personal Interaction			
7.	MEDIUM OF INSTRUCTION	Engilsh			
8.	PROGRAMME PATTERN	Semester			
9.	COURSE & SPECIALISATION	As per Annexure A			
10.	FEE		Academic Fee p.a	Institute Deposit	Total
	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
11.	ASSESSMENT	The courses will have 60% Continuous Assessment and 40% Term End [University] examination however, some courses (not more than 30% of the total			

		programme credits) may have 100% Continuous Assessment.
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 4.000 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	Master of Science (Biochemistry) will be awarded at the end of semester 4 examination by 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	Specialisation Core	Specialisation Elective	Open Elective	Mandatory Non-Credit Course/s	Non-Letter Grade Audit Course/s	Total
Common								
1	20	0	0	0	0	0	As per the student's choice	20
2	18	2	0	0	0	2		20
3	20	0	0	0	0	0		20
4	0	20	0	0	0	0		20
Total	58	22	0	0	0	0		80

The revised programme structure supersedes the previously approved programme structure dated 09/09/2024 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

THIS IS SYSTEM GENERATED DOCUMENT AND REQUIRES NO SIGNATURE.

Symbiosis School of Biological Sciences, Pune
Master of Science (Biochemistry)
Programme Structure 2024-26

Annexure A

Catalog Course Code	Course Code	Course Title	Specialisation	Credit	Continuous Assessment	Term End Examination	Total Marks
Semester : 1							
Generic Core Courses							
TH4098	0403470101	Advanced Molecular Biology		3	90	60	150
TH4425	0403470102	Biomolecules		3	90	60	150
TH4107	0403470103	Microbiology		3	90	60	150
TH4275	0403470104	Practicals in Biochemical Techniques		3	90	60	150
TH4274	0403470105	Practicals in Microbiology and Molecular Biology		3	90	60	150
TH4588	0403470106	Research Methodology and Biostatistics		3	90	60	150
TH4584	0403470107	Genetic Analysis		2	60	40	100
Total				20	600	400	1000
Semester : 2							
Generic Core Courses							
TH4589	0403470201	Advanced Immunology		3	90	60	150
TH4101	0403470202	Cell Biology		3	90	60	150
TH4277	0403470203	Metabolism		3	90	60	150
TH4273	0403470204	Proteins and Enzymes		3	90	60	150
TH4278	0403470205	Biophysical Techniques		2	60	40	100
TH4583	0403470206	Bioinformatics		2	60	40	100
TH4276	0403470207	Practicals in Enzymology		2	60	40	100
TH4788	0403470208	Health and Wellness Module I		0	0	0	Mandatory Non-Credit Course
TH4789	0403470211	Health and Wellness Module II		0	0	0	Mandatory Non-Credit Course
Total				18	540	360	900
Generic Elective Course Group (Choose any one Course)							
TH4108	0403470209	Practicals in Animal Tissue Culture		2	60	40	100
TH4585	0403470210	Practicals in Bioinformatics		2	60	40	100
Total Required Credits				2	60	40	100
Semester : 3							
Generic Core Courses							
TH4282	0403470301	Drug Discovery and Pharmacology		3	90	60	150

Symbiosis School of Biological Sciences, Pune
Master of Science (Biochemistry)
Programme Structure 2024-26

Annexure A

Catalog Course Code	Course Code	Course Title	Specialisation	Credit	Continuous Assessment	Term End Examination	Total Marks
TH4279	0403470302	Genetic and Metabolic Engineering		3	90	60	150
TH4109	0403470303	Practicals in Bioanalytical Techniques		3	90	60	150
TH4281	0403470304	Practicals in Clinical Biochemistry		3	90	60	150
TH4280	0403470305	Clinical Biochemistry		2	60	40	100
T1656	0403470306	Intellectual Property Rights		2	60	40	100
TH4106	0403470307	Introduction to Laboratory Animal Science		2	60	40	100
TH4283	0403470308	Structural Biology		2	60	40	100
Total				20	600	400	1000
Semester : 4							
Generic Elective Course Group (Choose any one course)							
T4820	0403470401	Project		20	600	400	1000
T4920	0403470402	Internship		20	600	400	1000
Total Required Credits				20	600	400	1000

Symbiosis School of Biological Sciences, Pune
Master of Science (Biochemistry)
Programme Structure 2024-26

Semester	Continuous Assessment	Term End Examination	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