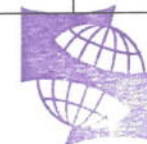


Program Name	Catalog Course Code	Catalog Course Name	Course Type	Batch 2020	Batch 2021	Change in T-Code Yes / No	Change in course/Nature	Change in Pedagogy	Change in evaluation	Change in instruction method	Add on course	Changes Yes: Revised No: Not Revised
M.Sc. (Biotechnology)	GEN002	Project	Core	Base PS	Dropped	Yes						Yes
M.Sc. (Biotechnology)			Elective	Base PS	No Change	No						No
M.Sc. (Biotechnology)	T0100	Research Publication	Core	Base PS	Dropped	Yes						Yes
M.Sc. (Biotechnology)			Elective		Added	Yes						Yes
M.Sc. (Biotechnology)	T1656	Intellectual Property Rights	Elective		Added	Yes						Yes
M.Sc. (Biotechnology)	T4005	Integrated Disaster Management	Core	Base PS	No Change	No						No
M.Sc. (Biotechnology)	T4703	Intellectual Property Rights	Core	Base PS	Dropped	Yes						Yes
M.Sc. (Biotechnology)	TH4059	Practicals in Biochemistry	Core	Base PS	Dropped	Yes						Yes
M.Sc. (Biotechnology)	TH4060	Practicals in Microbiology	Core	Base PS	Dropped	Yes						Yes
M.Sc. (Biotechnology)	TH4061	Practicals in Immunology and Virology	Core	Base PS	Dropped	Yes						Yes
M.Sc. (Biotechnology)	TH4062	Stem Cell Biology	Core	Base PS	Dropped	Yes						Yes
M.Sc. (Biotechnology)	TH4063	Bioinformatics	Elective	Base PS	Dropped	Yes						Yes
M.Sc. (Biotechnology)	TH4064	Genetic Analysis	Core	Base PS	Dropped	Yes						Yes
M.Sc. (Biotechnology)	TH4065	Genomics and Proteomics	Core	Base PS	Dropped	Yes						Yes
M.Sc. (Biotechnology)	TH4066	Practicals in Industrial and Clinical biotechnology	Core	Base PS	Dropped	Yes						Yes
M.Sc. (Biotechnology)	TH4067	Practical in Recombinant DNA Technology	Core	Base PS	Dropped	Yes						Yes
M.Sc. (Biotechnology)	TH4068	Molecular Immunology	Core	Base PS	Dropped	Yes						Yes
M.Sc. (Biotechnology)	TH4069	Research Methodology and Biostatistics	Core	Base PS	Dropped	Yes						Yes
M.Sc. (Biotechnology)	TH4070	Virology	Core	Base PS	Dropped	Yes						Yes
M.Sc. (Biotechnology)	TH4071	Practicals in Animal Tissue Culture	Core	Base PS	Dropped	Yes						Yes
M.Sc. (Biotechnology)	TH4072	Microbiology	Core	Base PS	Dropped	Yes						Yes
M.Sc. (Biotechnology)	TH4073	Advanced Molecular Biology	Core	Base PS	Dropped	Yes						Yes
M.Sc. (Biotechnology)	TH4074	Environmental Biotechnology	Elective	Base PS	Dropped	Yes						Yes
M.Sc. (Biotechnology)	TH4075	Practicals in Molecular Biology	Core	Base PS	Dropped	Yes						Yes
M.Sc. (Biotechnology)	TH4076	Biochemistry	Core	Base PS	Dropped	Yes						Yes
M.Sc. (Biotechnology)	TH4088	Clinical Biochemistry	Elective	Base PS	Dropped	Yes						Yes
M.Sc. (Biotechnology)	TH4089	Recombinant DNA Technology	Core	Base PS	Dropped	Yes						Yes
M.Sc. (Biotechnology)	TH4090	Cell Biology	Core	Base PS	Dropped	Yes						Yes
M.Sc. (Biotechnology)	TH4091	Bioprocess Engineering	Elective	Base PS	Dropped	Yes						Yes
M.Sc. (Biotechnology)	TH4096	Advanced Genomics and Proteomics	Elective		Added	Yes						Yes
M.Sc. (Biotechnology)	TH4097	Advanced Immunology	Core		Added	Yes						Yes
M.Sc. (Biotechnology)	TH4098	Advanced Molecular Biology	Core		Added	Yes						Yes
M.Sc. (Biotechnology)	TH4099	Biochemistry	Core		Added	Yes						Yes
M.Sc. (Biotechnology)	TH4100	Bioprocess Engineering	Elective		Added	Yes						Yes
M.Sc. (Biotechnology)	TH4101	Cell Biology	Core		Added	Yes						Yes
M.Sc. (Biotechnology)	TH4102	Environmental Biotechnology	Elective		Added	Yes						Yes
M.Sc. (Biotechnology)	TH4103	Genetic Analysis	Core		Added	Yes						Yes
M.Sc. (Biotechnology)	TH4104	Genetic engineering	Core		Added	Yes						Yes
M.Sc. (Biotechnology)	TH4105	Genomics, Proteomics and Bioinformatics	Core		Added	Yes						Yes

W. S. Joshi
DIRECTOR

Symbiosis School of Biological Sciences
Gram: Lavale, Pune - 412 115.



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M.Sc. (Biotechnology)	TH4106	Introduction to Laboratory Animal Science	Elective	Added	Yes						Yes
M.Sc. (Biotechnology)	TH4107	Microbiology	Core	Added	Yes						Yes
M.Sc. (Biotechnology)	TH4108	Practicals in Animal Tissue Culture	Core	Added	Yes						Yes
M.Sc. (Biotechnology)	TH4109	Practicals in Bioanalytical Techniques	Elective	Added	Yes						Yes
M.Sc. (Biotechnology)	TH4110	Practicals in Biochemistry	Core	Added	Yes						Yes
M.Sc. (Biotechnology)	TH4111	Practicals in Bioinformatics	Core	Added	Yes						Yes
M.Sc. (Biotechnology)	TH4112	Practicals in Immunology and Virology	Elective	Added	Yes						Yes
M.Sc. (Biotechnology)	TH4113	Practicals in Microbiology	Core	Added	Yes						Yes
M.Sc. (Biotechnology)	TH4114	Practicals in Molecular Biology	Core	Added	Yes						Yes
M.Sc. (Biotechnology)	TH4115	Practicals in Recombinant DNA Technology	Core	Added	Yes						Yes
M.Sc. (Biotechnology)	TH4116	Research Methodology and Biostatistics	Core	Added	Yes						Yes
M.Sc. (Biotechnology)	TH4117	Stem Cell Biology	Elective	Added	Yes						Yes
M.Sc. (Biotechnology)	TH4118	Virology	Elective	Added	Yes						Yes
M.Sc. (Biotechnology)	TH4272	Certificate in COVID-19 Care for the Community	Core	Added	Yes						Yes

Awadhys

DIRECTOR

Symbiosis School of Biological Sciences
Gram: Lavale, Pune - 412 115.



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SSBS

SYMBIOSIS SCHOOL OF BIOLOGICAL SCIENCES

Symbiosis International (Deemed University)

(Established under section 3 of the UCT Act, 1956)

Re-accredited by NAAC with 'A' grade (3.54/4) | Awarded Category – I by UGC

Founder: Prof. Dr. S.B. Mujumdar, M.Sc., Ph.D. (Awarded Padma Bhushan and Padma Shri by President of India)



Celebrating 50 Years of Excellence

Name of the institute: Symbiosis School of Biological Sciences

Name of the program: Master of Science (Biotechnology)

Academic Year: 2021-22

Index

Sr. No.	Program		Page number
1	MSc (Biotechnology)	Approval of programme structure of batch 2021-2023	1
2	MSc (Biotechnology)	Program structure 2020-21	2-8
3	MSc (Biotechnology)	Program structure 2021-22	9-13

A handwritten signature in blue ink, which appears to be 'A. Waidya', is located below the index table.

Director,

Symbiosis School of Biological Sciences



SYMBIOSIS INTERNATIONAL (DEEMED UNIVERSITY)

(Established under Section 3 of the UGC Act, 1956)

Re-accredited by NAAC with 'A' grade (3.58/4) | Awarded Category - I by UGC

SIU/ACAD/2022/1888

Date: 13/04/2022

To
The Director
Symbiosis School of Biological Sciences, Pune

Subject: Revised Programme Structure.

Dear Sir/Madam,

Reference to SIU letter no SIU/U-110(SSBS,Pune)/2021/3119 dated 16/08/2021 regarding approval of programme structure of batch 2021-2023. The details of the revision are as follows:

Academic Year : 2021-2022

Sr.No.	Programme	Batch
1	Master of Science (Biotechnology) (Revision 02)	2021-2023

The revised programme structure supersedes the previously approved programme structures referred in the above letters.

You are requested to download the same using your Login Credentials the link is :

<http://eduwiz.intechsolutionspune.in/eduwiz/login.html>

Path: Academics->Catalogue->Programme Structure-> View Course Structure -> Select Institute -> Select Academic Year -> Select Programme -> Select Batch -> Select Revision-> Show Course Structure -> Print Programme Structure.

Thanking you.

Sincerely,

Dr. Pravin Dange
Head- Academics

Copy to: Controller of Examinations, SIU



Symbiosis School of Biological Sciences, Pune
Master of Science (Biotechnology)
Programme Structure 2021-23

1.	OBJECTIVE	1. Provide expertise in laboratory-based 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 biotechnology. 4. 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 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	15	
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	Institute Deposit	Total
M.Sc. (Biotechnology)					
		Indian Students	210000	20000	230000
		International Students (USD equivalent to INR)	315000	20000	335000
M.Sc. Biotechnology (By Research) 1st Year					



Symbiosis School of Biological Sciences, Pune
Master of Science (Biotechnology)
Programme Structure 2021-23

		Indian Students	210000	20000	230000		
		International Students (USD equivalent to INR)	315000	20000	335000		
M.Sc. Biotechnology (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 (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/ DIPLOMA/ CERTIFICATE	<p>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.</p> <p>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.</p>						
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
Stream 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

Total	80	0	0	0	0	0	80
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* 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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Celebrating 50 Years of Excellence

Symbiosis School of Biological Sciences, Pune
Master of Science (Biotechnology)
Programme Structure 2021-23

Annexure A

Catalog Course Code	Course Code	Course Title	Specialization	Credit	Internal Marks	External Marks	Total Marks
Semester : 1							
Generic Core Courses							
TH4099	0403420101	Biochemistry		3	90	60	150
TH4097	0403420102	Advanced Immunology		3	90	60	150
TH4098	0403420103	Advanced Molecular Biology		3	90	60	150
TH4107	0403420104	Microbiology		3	90	60	150
TH4104	0403420105	Genetic Engineering		3	90	60	150
TH4116	0403420106	Research Methodology and Biostatistics		3	90	60	150
TH4103	0403420107	Genetic analysis		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
Semester : 2							
Generic Core Courses							
TH4113	0403420201	Practicals in microbiology		3	90	60	150
TH4110	0403420202	Practicals in Biochemistry		3	90	60	150
TH4101	0403420203	Cell Biology		3	90	60	150
TH4114	0403420204	Practicals in molecular biology		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
Semester : 3							
Stream - A							
Generic 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



Celebrating 50 Years of Excellence

Symbiosis School of Biological Sciences, Pune
Master of Science (Biotechnology)
Programme Structure 2021-23

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
Stream - A							
Generic 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
Stream-B (By Research)							
Generic 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
Semester : 4							
Stream - A							
Generic Core Courses							
T4820	0403420401	Project		20	600	400	1000
Total Required Credits				20	600	400	1000
Stream - B (By Research)							
Generic Core Courses							
T4820	0403420402	Project (Part II)		20	600	400	1000
Total Required Credits				20	600	400	1000



Celebrating 50 Years of Excellence

Symbiosis School of Biological Sciences, Pune
Master of Science (Biotechnology)
Programme Structure 2021-23

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



Celebrating 50 Years of Excellence

Symbiosis School of Biological Sciences, Pune
Master of Science (Biotechnology)
Programme Structure 2020-22

1.	OBJECTIVE	1. Provide expertise in laboratory-based 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 biotechnology. 4. 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 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	15	
5.	ELIGIBILITY	Graduate in Life Science/ 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 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	English			
8.	PROGRAMME PATTERN	Semester			
9.	COURSE & SPECIALIZATION	As per Annexure A			
10.	FEE		Academic Fee p.a	Institute Deposit	Total
		Indian Students	210000	20000	230000
		International Students (USD equivalent to INR)	315000	20000	335000
M.Sc. Biotechnology (By Research) 1st Year					



Symbiosis School of Biological Sciences, Pune
Master of Science (Biotechnology)
Programme Structure 2020-22

		Indian Students	210000	20000	230000		
		International Students (USD equivalent to INR)	315000	20000	335000		
M.Sc. Biotechnology (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 (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/ DIPLOMA/ CERTIFICATE	<p>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.</p> <p>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.</p>						
14. NATURE WISE DISTRIBUTION OF CREDITS							
Semester	Generic Core	Generic Elective	Specialization Core	Specialization Elective	Open Elective	Audit	Total
1	20	0	0	0	0	0	20
2	20	0	0	0	0	1*	20
3	15	5	0	0	0	1*	20
4	20	0	0	0	0	0	20
Total	75	5	0	0	0	0	80
* Satisfactory completion of the non letter- grade courses 'Integrated Disaster Management' and 'Research Publication' is mandatory for award of degree.							

Programme Structure is approved by the Academic Council subject to its norms & conditions. Any provision in the Programme Structure which violates the basic rules & regulations is deemed to be termed "Null & Void".

Head-Academics

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Celebrating 50 Years of Excellence

Symbiosis School of Biological Sciences, Pune
Master of Science (Biotechnology)
Programme Structure 2020-22

Annexure A

Catalog Course Code	Course Code	Course Title	Specialization	Credit	Internal Marks	External Marks	Total Marks
Semester : 1							
Generic Core Courses							
TH4076	0403420101	Biochemistry		3	90	60	150
TH4072	0403420102	Microbiology		3	90	60	150
TH4073	0403420103	Advanced Molecular Biology		3	90	60	150
TH4069	0403420104	Research Methodology and Biostatistics		3	90	60	150
TH4089	0403420105	Recombinant DNA Technology		3	90	60	150
TH4090	0403420106	Cell Biology		3	90	60	150
TH4064	0403420107	Genetic Analysis		2	60	40	100
Total				20	600	400	1000
Semester : 2							
Generic Core Courses							
TH4059	0403420201	Practicals in Biochemistry		3	90	60	150
TH4060	0403420202	Practicals in Microbiology		3	90	60	150
TH4071	0403420203	Practicals in Animal Tissue Culture		3	90	60	150
TH4075	0403420204	Practicals in Molecular Biology		3	90	60	150
TH4067	0403420205	Practical in Recombinant DNA Technology		3	90	60	150
TH4068	0403420206	Molecular Immunology		3	90	60	150
TH4065	0403420207	Genomics and Proteomics		2	60	40	100
T4005	0403420208	Integrated Disaster Management *		0	0	0	Non Letter Grade
Total				20	600	400	1000
Semester : 3							
STREAM-A							
Generic Core Courses							
T4703	0403420301	Intellectual Property Rights		3	90	60	150
TH4061	0403420302	Practicals in Immunology and Virology		3	90	60	150
TH4062	0403420303	Stem cell biology		3	90	60	150
TH4070	0403420304	Virology		3	90	60	150
TH4066	0403420305	Practicals in Industrial and Clinical Biotechnology		3	90	60	150
T0100	0403420306	Research Publication *		0	0	0	Non Letter Grade
Total				15	450	300	750
STREAM-B (By Research)							
Generic Core Courses							
T0100	0403420306	Research Publication *		0	0	0	Non Letter Grade



Celebrating 50 Years of Excellence

Symbiosis School of Biological Sciences, Pune
Master of Science (Biotechnology)
Programme Structure 2020-22

Annexure A

Catalog Course Code	Course Code	Course Title	Specialization	Credit	Internal Marks	External Marks	Total Marks
T4820	0403420307	Project (Part I)		20	600	400	1000
Total				20	600	400	1000
STREAM-A							
Generic Elective Courses Group							
TH4063	0403420308	Bioinformatics		2	60	40	100
TH4074	0403420309	Environmental Biotechnology		2	60	40	100
Total Required Credits				2	60	40	100
STREAM-A							
Generic Elective Courses Group							
TH4088	0403420311	Clinical Biochemistry		3	90	60	150
TH4091	0403420310	Bioprocess Engineering		3	90	60	150
Total Required Credits				3	90	60	150
Semester : 4							
STREAM-A							
Generic Core Courses							
T4820	0403420401	Project		20	600	400	1000
Total				20	600	400	1000
STREAM-B (By Research)							
Generic Core Courses							
T4820	0403420402	Project (Part II)		20	600	400	1000
Total				20	600	400	1000



Celebrating 50 Years of Excellence

Symbiosis School of Biological Sciences, Pune
Master of Science (Biotechnology)
Programme Structure 2020-22

Semester	Internal Credits	External Credits	Total Credits	Total Marks
Semester1	0	20	20	1000
Semester2	0	20	20	1000
Semester3	0	20	20	1000
Semester4	0	20	20	1000
Total	0	80	80	4000