

# **SCHEME**

**Bachelor of Science in Biotechnology (Hons.)**

**Faculty of Sciences**

**Department of Biotechnology**



**Study and Evaluation Scheme  
of**

**B.Sc. (Hons.) Biotechnology**

(Applicable w.e.f. Academic Session 2018-21, till revised)

**Duration of Course: 03 year**

**Mode of Examination: Semester**

**SWAMI VIVEKANAND  
UNIVERSITY, SIRONJA, SAGAR,  
(M.P.)**

\*\* The University Authorities reserve all the rights to make any additions/ deletions or changes.



# Swami Vivekanand University, Sagar (M.P.)



## Scheme- First Semester B.Sc. Biotechnology (Hons.) Course Code: BSCBT

### SUBJECT WISE DISTRIBUTION OF MARKS AND CORRESPONDING CREDITS

Paper Code	Paper Name	Period per week			Credit	Theory				Practical		Grand Total	Remarks
		L	T	P		Final Semester	CCE	Total Marks		Total Marks			
								Max	Min	Max	Min		
BSCBT-101	Frontiers in Biotechnology	3	1	0	4(3-1-0)	80	20	100	40	-	-	100	
BSCBT-102	Bio-Instrumentation	3	1	0	4(3-1-0)	80	20	100	40	-	-	100	
BSCBT-103	General Microbiology	3	1	0	4(3-1-0)	80	20	100	40	-	-	100	
BSCBT-104	Physical Chemistry	3	1	2	6(3-1-2)	80	20	100	40	50	25	150	
BSCBT-105	Ecology & Environmental Studies	3	1	0	4(3-1-0)	80	20	100	40	-	-	100	
BSCBT-106	Agriculture Biotechnology	3	1	2	6(3-1-2)	80	20	100	40	50	25	150	
BSCBT-107	English-I	3	1	0	4(3-1-0)	80	20	100	40	-	-	100	
BSCBT-108	Biotechnology Lab-I	0	0	2	2(0-0-2)	-	-	-	-	50	25	50	
<b>Total Credits</b>					<b>34(21-7-6)</b>	<b>Total Marks</b>						<b>850</b>	

Minimum Marks for passing in End Semester Theory– 40%

Minimum Marks for passing in End Semester Practical – 50%



# Swami Vivekanand University, Sagar (M.P.)



## Scheme- Second Semester B.Sc. Biotechnology (Hons.) Course Code: BSCBT

### SUBJECT WISE DISTRIBUTION OF MARKS AND CORRESPONDING CREDITS

Paper Code	Paper Name	Period per week			Credit	Theory				Practical		Grand Total	Remarks
		L	T	P		Final Semester	CCE	Total Marks		Total Marks			
								Max	Min	Max	Min		
BSCBT-201	Fundamentals of Biochemistry	3	1	0	4(3-1-0)	80	20	100	40	-	-	100	
BSCBT-202	Molecular Biology –I	3	1	0	4(3-1-0)	80	20	100	40	-	-	100	
BSCBT-203	Immunology	3	1	0	4(3-1-0)	80	20	100	40	-	-	100	
BSCBT-204	Inorganic Chemistry	3	1	2	6(3-1-2)	80	20	100	40	50	25	150	
BSCBT-205	Plant Tissue Culture	3	1	2	6(3-1-2)	80	20	100	40	50	25	150	
BSCBT-206	Bioinformatics	3	1	0	4(4-0-0)	80	20	100	40	-	-	100	
BSCBT-207	Hindi-I	3	1	0	4(3-1-0)	80	20	100	40	-	-	100	
BSCBT-208	Biotechnology Lab-II	0	0	2	2(0-0-2)	-	-	-	-	50	25	50	
<b>Total Credits</b>					<b>34(22-6-6)</b>	<b>Total Marks</b>						<b>850</b>	

Minimum Marks for passing in End Semester Theory– 40%  
Minimum Marks for passing in End Semester Practical – 50%



# Swami Vivekanand University, Sagar (M.P.)



## Scheme- Third Semester B.Sc. Biotechnology (Hons.) Course Code: BSCBT

### SUBJECT WISE DISTRIBUTION OF MARKS AND CORRESPONDING CREDITS

Paper Code	Paper Name	Period per week			Credit	Theory				Practical		Grand Total	Remarks
		L	T	P		Final Semester	CCE	Total Marks		Total Marks			
								Max	Min	Max	Min		
BSCBT-301	Cell Structure & Dynamics	3	1	0	4(3-1-0)	80	20	100	40	-	-	100	
BSCBT-302	Molecular Biology –II	3	1	0	4(3-1-0)	80	20	100	40	-	-	100	
BSCBT-303	General Anatomy & Comparative Anatomy of Vertebrates	3	1	0	4(3-1-0)	80	20	100	40	-	-	100	
BSCBT-304	Organic Chemistry	3	1	2	6(3-1-2)	80	20	100	40	50	25	150	
BSCBT-305	Food Microbiology	3	1	2	6(3-1-2)	80	20	100	40	50	25	150	
BSCBT-306	Fundamentals of Biostatistics and Computer Applications	3	1	0	4(3-1-0)	80	20	100	40	-	-	100	
BSCBT-307	English-II	3	1	0	4(3-1-0)	80	20	100	40	-	-	100	
BSCBT-308	Biotechnology Lab-III	0	0	2	2(0-0-2)	-	-	-	-	50	25	50	
<b>Total Credits</b>					<b>34(21-7-6)</b>	<b>Total Marks</b>						<b>850</b>	

Minimum Marks for passing in End Semester Theory– 40%

Minimum Marks for passing in End Semester Practical – 50%



# Swami Vivekanand University, Sagar (M.P.)



## Scheme- Fourth Semester B.Sc. Biotechnology (Hons.) Course Code: BSCBT

### SUBJECT WISE DISTRIBUTION OF MARKS AND CORRESPONDING CREDITS

Paper Code	Paper Name	Period per week			Credit	Theory				Practical		Grand Total	Remarks
		L	T	P		Final Semester	CCE	Total Marks		Total Marks			
								Max	Min	Max	Min		
BSCBT-401	Genetic Engineering-Tools and application	3	1	0	4(3-1-0)	80	20	100	40	-	-	100	
BSCBT-402	Bioprocess Engineering	3	1	0	4(3-1-0)	80	20	100	40	-	-	100	
BSCBT-403	Enzymology	3	1	0	4(3-1-0)	80	20	100	40	-	-	100	
BSCBT-404	Industrial Chemistry	3	1	2	6(3-1-2)	80	20	100	40	50	25	150	
BSCBT-405	Environmental Biotechnology	3	1	0	4(3-1-0)	80	20	100	40	-	-	100	
BSCBT-406	Applied Biology Sciences	3	1	2	6(3-1-2)	80	20	100	40	50	25	150	
BSCBT-407	Hindi-II	3	1	0	4(3-1-0)	80	20	100	40	-	-	100	
BSCBT-408	Biotechnology Lab-IV	0	0	2	2(0-0-2)	-	-	-	-	50	25	50	
<b>Total Credits</b>					<b>34(21-7-6)</b>	<b>Total Marks</b>						<b>850</b>	

Minimum Marks for passing in End Semester Theory– 40%  
Minimum Marks for passing in End Semester Practical – 50%



# Swami Vivekanand University, Sagar (M.P.)



## Scheme- Fifth Semester B.Sc. Biotechnology (Hons.) Course Code: BSCBT

### SUBJECT WISE DISTRIBUTION OF MARKS AND CORRESPONDING CREDITS

Paper Code	Paper Name	Period per week			Credit	Theory				Practical		Grand Total	Remarks
		L	T	P		Final Semester	CCE	Total Marks		Total Marks			
								Max	Min	Max	Min		
BSCBT-501	Cell Biology and Genetics	3	1	0	4(3-1-0)	80	20	100	40	-	-	100	
BSCBT-502	Introduction to Bio-nanotechnology	3	1	0	4(3-1-0)	80	20	100	40	-	-	100	
BSCBT-503	Genomics and Proteomics	3	1	0	4(3-1-0)	80	20	100	40	-	-	100	
BSCBT-504	Plant Diversity	3	1	2	6(3-1-2)	80	20	100	40	50	25	150	
BSCBT-505	Plant Physiology	3	1	2	6(3-1-2)	80	20	100	40	50	25	150	
BSCBT-506	Climate Change & Remedial Technologies	3	1	0	4(3-1-0)	80	20	100	40	-	-	100	
BSCBT-507	Waste Management	3	1	0	4(3-1-0)	80	20	100	40	-	-	100	
BSCBT-508	Biotechnology Lab-V	0	0	2	2(0-0-2)	-	-	-	-	50	25	50	
<b>Total Credits</b>					<b>34(21-7-6)</b>	<b>Total Marks</b>						<b>850</b>	

Minimum Marks for passing in End Semester Theory– 40%

Minimum Marks for passing in End Semester Practical – 50%



# Swami Vivekanand University, Sagar (M.P.)



## Scheme- Sixth Semester B.Sc. Biotechnology (Hons.) Course Code: BSCBT

### SUBJECT WISE DISTRIBUTION OF MARKS AND CORRESPONDING CREDITS

Paper Code	Paper Name	Period per week			Credit	Theory				Practical		Grand Total	Remarks
		L	T	P		Final Semester	CCE	Total Marks		Total Marks			
								Max	Min	Max	Min		
<b>BSCBT-601</b>	Bioethics; IPR; Scientific Writing & Bio-entrepreneurship	3	1	0	<b>4(3-1-0)</b>	<b>80</b>	<b>20</b>	<b>100</b>	<b>40</b>	-	-	<b>100</b>	
<b>BSCBT-602</b>	Field work, Study Tour/Industrial Visit	0	0	2	<b>2(0-0-2)</b>	-	-	-	-	<b>50</b>	<b>25</b>	<b>50</b>	
<b>BSCBT-603</b>	Disaster Management	3	1	0	<b>4(3-1-0)</b>	<b>80</b>	<b>20</b>	<b>100</b>	<b>40</b>	-	-	<b>100</b>	
<b>BSCBT-604</b>	Seminar	0	0	4	<b>4(0-0-4)</b>	-	-	-	-	<b>100</b>	<b>60</b>	<b>100</b>	
<b>BSCBT-605</b>	Major Project	0	0	6	<b>6(0-0-6)</b>	-	-	-	-	<b>150</b>	<b>90</b>	<b>150</b>	
<b>Total Credits</b>					<b>20(6-2-12)</b>	<b>Total Marks</b>						<b>500</b>	

Minimum Marks for passing in End Semester Theory– 40%

Minimum Marks for passing in End Semester Practical – 50%