

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

As per model syllabus of U.G.C. New Delhi, drafted by  
Central Board of Studies and Approved by Higher  
Education and the Governor of M.P.



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**Faculty of Science**

**Syllabus & Prescribed Books**

**Subject- Biotechnology**

**M.Sc. Semester Examination**

**2016-18**

**I to IV Semester**

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## COURSEWISE SCHEME I<sup>st</sup> SEMESTER

1. Course Code	: MSCBT	5. Total Practical	: 2
2. Course Name	: M.Sc. Biotechnology	6. Total Practical Marks	: 100
3. Total Theory Subject	: 4	7. Total Marks	: 300
4. Total Theory Marks	: 200	8. Minimum Passing Percentage	: 36

Sub. Code	Subject Name	Theory									Practical		Total	
		Paper					CCE		Total Marks		Max.	Min.	Max.	Min.
1st	2nd	3rd	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.				
<b>Compulsory</b>														
MSCBT 101	Cell Biology	42	0	0	42	15	8	3	50	18	0	0	50	18
MSCBT 102	Structure Function, Metabolism of Bimolecules	42	0	0	42	15	8	3	50	18	0	0	50	18
MSCBT 103	General & Applied Microbiology	42	0	0	42	15	8	3	50	18	0	0	50	18
MSCBT 104	Analytical Techniques & Biotechnology	42	0	0	42	15	8	3	50	18	0	0	50	18
MSCBT 105	<b>Practical-I</b>	0	0	0	0	0	0	0	0	0	50	18	50	18
MSCBT 106	<b>Practical-II</b>	0	0	0	0	0	0	0	0	0	50	18	50	18



## COURSEWISE SCHEME

### II<sup>nd</sup> SEMESTER

1. Course Code	: MSCBT	5. Total Practical	: 2
2. Course Name	: M.Sc. Biotechnology	6. Total Practical Marks	: 100
3. Total Theory Subject	: 4	7. Total Marks	: 300
4. Total Theory Marks	: 200	8. Minimum Passing Percentage	: 36

Sub. Code	Subject Name	Theory									Practical		Total	
		Paper					CCE		Total Marks		Max.	Min.	Max.	Min.
		1st	2nd	3rd	Max.	Min.	Max.	Min.	Max.	Min.				
<b>Compulsory</b>														
MSCBT 201	Molecular Genetics	42	0	0	42	15	8	3	50	18	0	0	50	18
MSCBT 202	Basic Enzymology & Enzymma Technology	42	0	0	42	15	8	3	50	18	0	0	50	18
MSCBT 203	Molecular Biology	42	0	0	42	15	8	3	50	18	0	0	50	18
MSCBT 204	Immunology & Animal Cell Culture	42	0	0	42	15	8	3	50	18	0	0	50	18
MSCBT 205	<b>Practical-I</b>	0	0	0	0	0	0	0	0	0	50	18	50	18
MSCBT 206	<b>Practical-II</b>	0	0	0	0	0	0	0	0	0	50	18	50	18



## COURSEWISE SCHEME III<sup>rd</sup> SEMESTER

1. Course Code	: MSCBT	5. Total Practical	: 2
2. Course Name	: M.Sc. Biotechnology	6. Total Practical Marks	: 100
3. Total Theory Subject	: 4	7. Total Marks	: 300
4. Total Theory Marks	: 200	8. Minimum Passing Percentage	: 36

Sub. Code	Subject Name	Theory									Practical		Total	
		Paper					CC E		Total Marks		Max.	Min.	Max.	Min.
		1st	2nd	3rd	Max.	Min.	Max.	Min.	Max.	Min.				
<b>Compulsory</b>														
MSCBT 301	Genetic Engineering	42	0	0	42	15	8	3	50	18	0	0	50	18
MSCBT 302	Biostatistics and Bioinformatics	42	0	0	42	15	8	3	50	18	0	0	50	18
MSCBT 303	Plant Biotechnology	42	0	0	42	15	8	3	50	18	0	0	50	18
MSCBT 304	Bioprocesses & Biochemical Engineering	42	0	0	42	15	8	3	50	18	0	0	50	18
MSCBT 305	Practical – I	0	0	0	0	0	0	0	0	0	50	18	50	18
MSCBT 306	Practical – II	0	0	0	0	0	0	0	0	0	50	18	50	18



## COURSEWISE SCHEME IV<sup>th</sup> SEMESTER

1. Course Code	: MSCBT	6. Total Practical Marks	: 100
2. Course Name	: M.Sc. Biotechnology	7. Project Marks	: 50
3. Total Theory Subject	: 4	8. Total Marks	: 350
4. Total Theory Marks	: 200	9. Minimum Passing Percentage	: 36
5. Total Practical	: 2		

Sub. Code	Subject Name	Theory									Practical		Total	
		Paper					CCE		Total Marks		Max.	Min.	Max.	Min.
1st	2nd	3rd	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.				
<b>Compulsory</b>														
MSCBT 401	Food Biotech	42	0	0	42	15	8	3	50	18	0	0	50	18
MSCBT 402	Industrial Biotech	42	0	0	42	15	8	3	50	18	0	0	50	18
MSCBT 403	Environmental Biotech	42	0	0	42	15	8	3	50	18	0	0	50	18
MSCBT 404	Agriculture Biotech	42	0	0	42	15	8	3	50	18	0	0	50	18
MSCBT 405	Practical – I	0	0	0	0	0	0	0	0	0	50	18	50	18
MSCBT 406	Practical – II	0	0	0	0	0	0	0	0	0	50	18	50	18
MSCBT 407	Project Work	0	0	0	0	0	0	0	50	18	0	0	50	18