

**People's University, Bhopal**  
**Faculty of Science**  
**Master of Science in Microbiology (M.Sc. Microbiology)**  
**SCHEME OF EXAMINATION**  
**w.e.f. Academic Session 2022-2023**

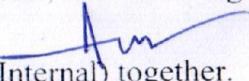
SEMESTER I

Paper code	Paper Name	T/P	Credit points	Theory		Practical		Total	Min Marks for passing
				External Assessment	Internal Assessment	External Assessment	Internal Assessment		
MSC- 102	Immunology	T	4	80	20	-	-	100	40
MSC- 103	General Microbiology	T	3	80	20	-	-	100	40
MSC- 109	Bio-analytical techniques	T	4	80	20	-	-	100	40
MSC- 113	Biochemistry	T	3	80	20	-	-	100	40
MSC- 111	Practical I (Based on MSC- 102 and MSC- 103)	P	4	-	-	80	20	100	40
MSC- 114	Practical II (Based on MSC- 109 and MSC- 113)	P	4	-	-	80	20	100	40
MSC- 108	Communication Skills	T	1	-	50	-	-	50	20
MSC- 120	Journal club	T	1	-	50	-	-	50	20
<b>Total</b>			<b>24</b>	<b>320</b>	<b>180</b>	<b>160</b>	<b>40</b>	<b>700</b>	<b>280</b>

**Note:**

- Internal assessment marks will be based on written test, seminar/assignment & attendance in theory paper and practical-record & attendance in practical papers respectively.
- Passing criteria will be 40% of marks (External and Internal) together.

  
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SEMESTER II

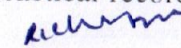
Paper code	Paper Name	T/P	Credit points	Theory		Practical		Total	Min Marks for passing
				External Assessment	Internal Assessment	External Assessment	Internal Assessment		
MSC- 201	Genetic Engineering	T	4	80	20	-	-	100	40
MSC- 206	Molecular Biology	T	4	80	20	-	-	100	40
MSC- 207	Biostatistics and Bioinformatics	T	3	80	20	-	-	100	40
MSC- 211	Microbial Physiology	T	3	80	20	-	-	100	40
MSC- 212	Practical III (Based on MSC- 201 and MSC- 206)	P	4	-	-	80	20	100	40
MSC- 213	Practical IV (Based on MSC- 207 and MSC- 211)	P	4	-	-	80	20	100	40
MSC- 220	Research Methodology	T	1	-	50	-	-	50	20
<b>Total</b>			<b>23</b>	<b>320</b>	<b>130</b>	<b>160</b>	<b>40</b>	<b>650</b>	<b>260</b>

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**SEMESTER III**

Paper code	Paper Name	T/P	Credit points	Theory		Practical		Total	Min Marks for passing
				External Assessment	Internal Assessment	External Assessment	Internal Assessment		
MSC- 311	Environmental and Agriculture Microbiology	T	3	80	20	-	-	100	40
MSC- 312	Medical Microbiology	T	3	80	20	-	-	100	40
MSC- 313	Food and Dairy Microbiology	T	4	80	20	-	-	100	40
MSC- 317	Fermentation Technology and Bioprocess Engineering	T	4	80	20	-	-	100	40
MSC- 315	Practical V (Based on MSC- 311 and MSC- 312)	P	4	-	-	80	20	100	40
MSC- 316	Practical VI (Based on MSC- 313 and MSC- 314)	P	4	-	-	80	20	100	40
MSC- 307	Project Proposal Presentation	T	1	-	50	-	-	50	20
<b>Total</b>			<b>23</b>	<b>320</b>	<b>130</b>	<b>240</b>	<b>60</b>	<b>750</b>	<b>300</b>

**Note:**

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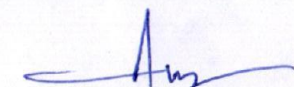
SEMESTER IV

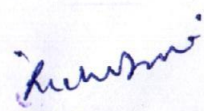
Paper code	Paper Name	T/P	Credit points	Theory		Viva Voice		Total	Min Marks for passing
				External Assessment	Internal Assessment	External Assessment	Internal Assessment		
Elective III MSC - 401	Intellectual Property Rights, Biosafety and Bioethics	T	3	80	20	-	-	100	40
MSC - 402	Clinical and Translational Research								
MSC - 403	Dissertation and Viva-Voce	P	20	-	-	100	100	200	80
<b>Total</b>			<b>23</b>	<b>80</b>	<b>20</b>	<b>100</b>	<b>100</b>	<b>300</b>	<b>120</b>

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