

**GONDWANA UNIVERSITY**

**GADCHIROLI**

**CHOICE BASE CREDIT SYSTEM  
(CBCS)**

**SYLLABUS FOR**

**M.Sc.**

**TWO-YEARS DEGREE COURSE  
IN**

**MICROBIOLOGY**

**From**

**Academic Year**

**2021-2022**

*V. M. Jadhav*  
11/10/22

*A. Jadhav*  
11/10/22

*[Signature]*  
11/20/2022

**CHOICE BASED CREDIT SYSTEM (CBCS)**  
**SEMESTER PATTERN**  
**M.Sc. Microbiology (PG) Program under Faculty of Science**  
**(Affiliated Colleges)**  
(W.e.f. Academic Year 2021-22)

**Appendix-1**

**Scheme of teaching and examination under semester pattern Choice Based Credit System (CBCS) for M.Sc. Program in Microbiology.**

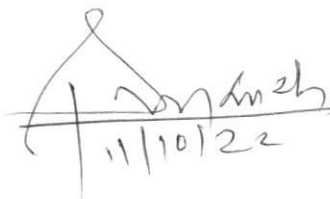
	Core Course	Ability Enhancement	Skill Based Course	Discipline Specific Elective
<b>SEM I</b>	Core 1 Th. Paper 1 (4 Credits) (4 Hours/Week)	Seminar I (1 Credit) (2 Hours/Week)		
	Core 2 Th. Paper 2(4 Credits) (4 Hours/Week)			
	Core 3 Th. Paper 3 (4 Credits) (4 Hours/Week)			
	Core 4 Th. Paper 4 (4 Credits) (4 Hours/Week)			
	Pract. Core Pr. 1 {Based on Core Th. 1&2} (4 Credits) (3-8 Hours/Week)			
	Pract. Core Pr. 2 {Based on Core Th. 3&4} (4 Credits) (3-8 Hours/Week)			

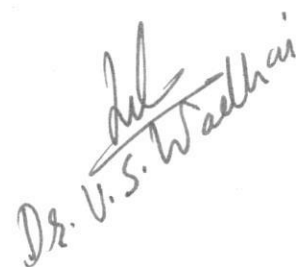
Total 25 Credits

	Core Subject	Ability Enhancement	Skill Based Course	Discipline Specific Elective
<b>SEM II</b>	Core 5 Th. Paper 5 (4 Credits) (4 Hours/Week)	Seminar II (1 Credit) (2 Hours/Week)		
	Core 6 Th. Paper 6 (4 Credits) (4 Hours/Week)			
	Core 7 Th. Paper 7 (4 Credits)			
	Core 8 Th. Paper 8 (4 Credits) (4 Hours/Week)			
	Pr. Core Pr. 3 {Based on Core Th. 5&6} (4 Credits) (3-8 Hours/Week)			
	Pr. Core Pr. 4 {Based on Core Th. 7&8} (4 Credits) (3-8 Hours/Week)			

Total 25 Credits

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Dr. V. S. Wadhwa

**Scheme of teaching and examination under semester pattern Choice Based Credit System (CBCS) for M.Sc. Program.**

**Semester I**

Code	Theory / Practical	Teaching Scheme			Credit	Examination Scheme					
		Hrs/ week				Duration in hrs.	Max. Marks		Total	Minimum Marks	
		Theory	Practical	Total			External	Internal		Theory	Practical
Core 1	Paper 1	4	-	4	4	3	80	20	100	40	
Core 2	Paper 2	4	-	4	4	3	80	20	100	40	
Core 3	Paper 3	4	-	4	4	3	80	20	100	40	
Core 4	Paper 4	4	-	4	4	3	80	20	100	40	
Pract. Core 1 & 2	Practical 1	-	8	8	4	3-8*	80	20	100	40	40
Pract. Core 3 & 4	Practical 2	-	8	8	4	3-8*	80	20	100	40	40
Seminar 1	Seminar 1	2	-	2	1			25	25	10	
<b>TOTAL</b>		<b>18</b>	<b>16</b>	<b>34</b>	<b>25</b>		<b>480</b>	<b>145</b>	<b>625</b>	<b>170</b>	<b>80</b>

**Semester II**

Code	Theory / Practical	Teaching Scheme			Credit	Examination Scheme					
		Hrs/ week				Duration in hrs.	Max. Marks		Total	Minimum Marks	
		Theory	Practical	Total			External	Internal		Theory	Practical
Core 5	Paper 5	4	-	4	4	3	80	20	100	40	
Core 6	Paper 6	4	-	4	4	3	80	20	100	40	
Core 7	Paper 7	4	-	4	4	3	80	20	100	40	
Core 8	Paper 8	4	-	4	4	3	80	20	100	40	
Pract. Core 5 & 6	Practical 3	-	8	8	4	3-8*	80	20	100	40	40
Pract. Core 7 & 8	Practical 4	-	8	8	4	3-8*	80	20	100	40	40
Seminar 2	Seminar 2	2	-	2	1			25	25	10	
<b>TOTAL</b>		<b>18</b>	<b>16</b>	<b>34</b>	<b>25</b>		<b>480</b>	<b>145</b>	<b>625</b>	<b>170</b>	<b>80</b>

***Project Work/Dissertation Scheme / Guidelines for the Students, Supervisors and Examiners***

Every student is required to carry out a project work in semester IV. The project can be of following types. A) Experimental Project Work; OR B) Field Based Project Work; OR C) Review writing based Project Work.

***Experimental Project Work and Field Based Project Work:***

Student can carry out Experimental / Field Based Project Work on a related research topic of the subject /course. It must be an original work and must indicate some degree of experimental work / Field work. On

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