

Department of Microbiology

School of Biological Sciences



Curriculum Framework- 2022

Based on National Education Policy- 2020

Date of BoS: 13 August 2022

**Doctor Harisingh Gour Vishwavidyalaya
(A Central University)
Sagar-Madhya Pradesh
470003**

Post Graduate Curriculum Framework

M.Sc. Microbiology

Level: L8

Semester I

Nature of Course	Course Code	Course Title	Credits
Discipline Specific Major-1	MIC-DSM-121	General Microbiology and Microbial Diversity (T)	4
	MIC-DSM-122	General Microbiology and Microbial Diversity (P)	2
Discipline Specific Major-2	MIC-DSM-123	Medical Microbiology and Immunology (T)	4
	MIC-DSM-124	Medical Microbiology and Immunology (P)	2
Multi-Disciplinary Major-3	MIC-MDM-121	Principles of Biochemistry (T)	4
	MIC-MDM-122	Principles of Biochemistry (P)	2
Skill Enhancement Course (SEC)	MIC-SEC-121	Bioinstrumentation and Bioinformatics (T)	3
	MIC-SEC-122	Bioinstrumentation and Bioinformatics (P)	1

Semester II

Nature of Course	Course Code	Course Title	Credits
Discipline Specific Major-1	MIC-DSM-221	Microbial Physiology (T)	4
	MIC-DSM-222	Microbial Physiology (P)	2
Discipline Specific Major-2	MIC-DSM-223	Environmental Microbiology (T)	4
	MIC-DSM-224	Environmental Microbiology (P)	2
Multi-Disciplinary Major-3	MIC-MDM-221	Pharmaceutical Microbiology and IPR (T)	4
	MIC-MDM-222	Pharmaceutical Microbiology and IPR (P)	2
Skill Enhancement Course (SEC)	MIC-SEC-221	Methods in Molecular Biology and Biocatalysis (T)	3
	MIC-SEC-222	Methods in Molecular Biology and Biocatalysis (P)	1
Exit: PG Diploma in Applied Microbiology			

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Total Credits: 16

- Credits through course work = 16
- 3 Courses X4 Credits = 12Credits through course work
+ 04 Credits from scientific review writing
- Research and Publication Ethics = 02

Paper	Code	Title	Credits
Paper 1	MIC CC 141	Research Methodology	4
Paper 2	MIC CC 142	Fundamentals of Biotechnology	4
Paper 3	MIC EC 141	Techniques in Microbiology	4
	MIC EC 142	Microbiology & Human Health	4
Paper 4	MIC CC 143	Reviewing of Literature/ Scientific writing/ Presentations etc	4
Paper 5	CPE-RPE	Research and Publication Ethics	2

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