LAHORE GARRISON UNIVERSITY

Main Campus, Sector – C Phase- VI, DHA Lahore

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DEPARTMENT OF BIOLOGY

BS Microbiology (BSMB) Curriculum mapping with Sustainable Development Goals
Sustainability Development Goals:
GOAL 1: No Poverty
GOAL 2: Zero Hunger
GOAL 3: Good Health and Well-being
GOAL 4: Quality Education
GOAL 5: Gender Equality
GOAL 6: Clean Water and Sanitation
GOAL 7: Affordable and Clean Energy
GOAL 8: Decent Work and Economic Growth
GOAL 9: Industry, Innovation and Infrastructure
GOAL 10: Reduced Inequality
GOAL 11: Sustainable Cities and Communities
GOAL 12: Responsible Consumption and Production
GOAL 13: Climate Action
GOAL 14: Life Below Water

GOAL 15: Life on Land

GOAL 16: Peace and Justice Strong Institutions

GOAL 17: Partnerships to achieve the Goal

S/No	Code	Subjects	Sustainability Development Goals																
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	MICB311	Fundamentals of Microbiology-I			✓	✓		✓	✓		✓			✓	✓	✓	✓		
2	MICB312	Biochemistry-I			✓	✓					✓								
3	MICB313	Botany				✓			✓		✓			✓	✓		✓		
4	MATH117	Mathematics				✓												✓	
5	ENG101	English I				✓	✓											✓	✓
6	ISL101	Islamic Studies				✓	✓			✓		✓						✓	
SEMESTER 2																			
S/ No	**Code**	**Subjects**																	
1	MICB321	Fundamentals of Microbiology-II			✓	✓		✓	✓		✓			✓	✓	✓	✓		
2	MICB322	Zoology		✓	✓	✓				✓	✓			✓		✓	✓		
3	MICB323	Biochemistry-II			✓	✓					✓								
4	CSC101	Introduction to Computer				✓				✓	✓								
5	ENG102	English II			✓	✓												✓	✓
6	PAKS101	Pakistan Studies				✓	✓			✓								✓	
SEMESTER 3																			
S/ No	**Code**	**Subjects**																	
1	MICB331	Genetics			✓												✓		
2	MICB332	Microbial Taxonomy																	
3	MICB333	Fundamentals of Mycology				✓													
4	STAT111	Biostatistics																	
5	CHEM101	Chemistry		✓	✓			✓			✓								
6	MICB334	Fundamentals of Epidemiology and Public Health			✓														

SEMESTER 4																			
S/ No	**Code**	**Subjects**																	
1	MICB341	Ecology and Ecosystem										✓	✓			✓			
2	MICB342	Microbial Anatomy and Physiology			✓											✓			
3	MICB343	General Virology			✓														
4	MICB344	Cell Biology I			✓											✓			
5	MICB345	General Immunology			✓								✓						
6	MICB346	Environmental Current Issues			✓							✓	✓	✓					
SEMESTER 5																			
S/No	**Code**	**Subjects**																	
1	MICB351	Food Microbiology		✓		✓					✓								
2	MICB352	Bacterial Genetics				✓													
3	MICB353	Cell Biology II				✓													
4	MICB354	Research Methodology				✓													
5	MICB355	Biosafety and Risk Management				✓		✓											
SEMESTER 6																			
S/ No	**Code**	**Subjects**																	
1	MICB361	Clinical Bacteriology			✓	✓													
2	MICB362	Molecular Action of Antimicrobial Agents				✓					✓								
3	MICB363	Environmental Microbiology				✓		✓	✓					✓		✓			
4	MICB364	Soil Microbiology				✓			✓										
5	MICB365	Introduction to Medical Microbiology			✓	✓					✓								
SEMESTER 7																			
S/No	**Code**	**Subjects**																	
1	MICB371	CELL & TISSUE CULTURE TECHNOLOGY		✓	✓	✓					✓								
2	MICB372	INDUSTRIAL MICROBIOLOGY	✓	✓	✓	✓		✓		✓	✓		✓	✓					✓
3	MICB373	GENETIC ENGINEERING		✓	✓	✓				✓	✓				✓		✓		
4	MICB374	MARINE AND FRESH WATER MICROBIOLOGY				✓		✓					✓	✓	✓	✓			
5	MICB375	VETERINARY MICROBIOLOGY			✓	✓				✓				✓			✓		

SEMESTER 8																				
S/No	**Code**	**Subjects**																		
1	MICB381	NANO-BIOTECHNOLOGY			✓	✓				✓	✓									