Vanita Vishram Women's University School of Science and Technology Department of Microbiology



Bachelor of Science (B.Sc.) Honours Microbiology Programme
Under New Education Policy (NEP) & Learning Outcomes-Based
Curriculum Framework (LOCF) as a reference for Under Graduate (UG)
Education

Core Courses (CC), Ability Enhancement Compulsory Courses (AECC), Skill Enhancement Course (SEC), Department Elective (DE) Generic Elective Courses (GE)

Course structure is applicable to the students seeking admission in the following programmes

B.Sc., Microbiology, Biotechnology and Chemistry Under NEP & LOCF w.e.f. the Academic Year 2022-2023

B.Sc. (Honours) Microbiology Programme Course Credit Structure

Semester	Subjects	Core Course	Component wise Credits	Total Credits
Semester 1	Microbiology	Core Course-I (Credit-2) Core Course-II (Credit-2)	6	24
	Biotechnology	Core Course Lab-1 (Credit=2) Core Course-I (Credit-2)		1
	g	Core Course-II (Credit-2) Core Course Lab-1 (Credit=2)	6	
	Chemistry/ Physics	Core Course-I (Credit-2) Core Course-II (Credit-2) Core Course Lab-1 (Credit=2)	6	
	AECC	English Communication-I Environmental Studies-I	2 2	
	Elective	Elective (From Other Discipline)	2	
Semester 2	Microbiology	Core Course-III (Credit-2) Core Course-Iv (Credit-2) Core Course Lab-2 (Credit=2)	6	24
	Biotechnology	Core Course-III (Credit-2) Core Course-IV (Credit-2) Core Course Lab-2 (Credit=2)	6	
	Chemistry/ Physics	Core Course-III (Credit-2) Core Course-IV (Credit-2) Core Course Lab-2 (Credit=2)	6	
	AECC	English Communication-II	2	1
	Thece	Environmental Studies-II	2	
	Elective	Elective (From Other Discipline):	2	1
Semester 3	Microbiology	Core Course-V (Credit-2) Core Course-VI (Credit-2) Core Course-VII (Credit-2)	9	24
	Biotechnology	Core Course Lab-3 (Credit=3) Core Course-V (Credit-2)		-
		Core Course-VI (Credit-2) Core Course-VII (Credit-2) Core Course Lab-3 (Credit=3)	9	
	SEC	Skill Enhancement-1 Skill Enhancement-2	4	
	Department Elective	Department Elective-1 (Certificate Course (30 Hrs)*/ In House Or Outside Training (30 Hrs)/ Student Exchange Program)	2	
Semester 4	Microbiology	Core Course-VIII (Credit-2) Core Course-IX (Credit-2) Core Course-X (Credit-2) Core Course Lab-4 (Credit=3)	9	24
	Biotechnology	Core Course-VIII (Credit-2) Core Course-IX (Credit-2) Core Course-X (Credit-2) Core Course Lab-4 (Credit=3)	9	

	SEC	Skill Enhancement-3 (Credit-2)	4	
		Skill Enhancement-4 (Credit-2)	4	
	Department	Department Elective-2 (Certificate		
	Elective	Course (30 Hrs)*/ In House Or	2	
		Outside Training (30 Hrs)/ Student	2	
		Exchange Program)		
Semester	Microbiology	Core Course-XI (Credit-2)		24
5		Core Course-XII (Credit-2)		
		Core Course-XIII (Credit-2)		
		Core Course-XIV (Credit-2)	18	
		Core Course-XV (Credit-2)		
		Core Course-XVI (Credit-2)		
		Core Course Lab-V (Credit-6)		
	Department	Department Elective-3 (Credit-2)		
	Elective	Department Elective-4 (Credit-2)		
	Licetive	Department Elective-Lab-1 (Credit-	6	
		2)		
Semester	Microbiology	Core Course-XVII (Credit-2)		24
6	whichouldingy	Core Course-XVII (Credit-2)		4
U		Core Course-XVIII (Credit-2)	18	
		` /	10	
		Core Course Leb VI (Credit 4)		
	D - 11 - 114 - 114	Core Course Lab-VI (Credit-4)		_
	Department	Department Elective-5 (Credit-2)		
	Elective	Department Elective-6 (Credit-2)	6	
		Department Elective-Lab-2 (Credit-		
G .	0 1 1/0 1	2)		
Semester	Optional/Proposed	Project Work/ Training (90 Hrs)/	6	
6		Internship (2 Weeks)		
Semester	Microbiology	Core Course-XXI (Credit-4)	6	
7		Core Course Lab-7 (Credit=2)		22
	Research Specific	Research Methodology (Credit-2)		
	Elective	Research Area Specific Elective-I	4	
		(Credit-2)	т	
	Research	Dissertation (Credit-9)		
	Component	Seminar (Credit-1)	12	
		Research Article Writing (Credit-	12	
		2)**		
Semester	Microbiology	Core Course-XXII (Credit-4)	06	
8		Core Course Lab-8 (Credit=2)	06	22
	Research Specific	Data Analysis Course (Credit-2)		
	Elective	Research Area Specific Elective-II	4	
		(Credit-2)		
	Research	Dissertation (Credit-9)		
	Component	Seminar (Credit-1)		
	2 3 111 2 11 2 11 2	Research Paper Presentation in	12	
		Seminar Or Conference (Credit-2)		
		Total		188
		1 0141		100

^{*} Certificate Course May Be In Online/Offline Or In Blended Mode

**Research Article Writing Comprises Articles Submitted To The Supervisor.

Suggestive Notes for The Implementation Of NEP 2020:

• As Per Government Guidelines, Yet We Can Implement NCC/NSS/ Saptdhara/ Physical Training As 2 Credit Component In Each Semester And Incorporate It In The Course Curriculum

Subject Combinations to be Offered for Academic Year 2022-23

1	Microbiology, Biotechnology, Chemistry
2	Biotechnology, Microbiology, Physics