

BHARATHIAR UNIVERSITY, COIMBATORE.
B.Sc. MICROBIOLOGY WITH NANOTECHNOLOGY DEGREE COURSE
SCHEME OF EXAMINATION - CBCS PATTERN (AFFILIATED COLLEGES)
For the students admitted during the academic year 2010 – 2011 batch onwards

Part	Study Components	Course title	Ins. hrs/ week	Examinations			Credit	
				Dur.Hr	CIA	Marks		Total Marks
Semester I								
I	Language – I		6	3	25	75	100	4
II	English – I		6	3	25	75	100	4
III	Core Paper I - Fundamentals of Microbiology		6	3	25	75	100	4
	Practical I and Viva Voce		4	-	-	-	-	-
	Allied A : Paper I – Biostatistics and Computer Applications I		4	3	20	55	75	3
	Allied Practical		2	-	-	-	-	-
IV	Environmental Studies #		2	-	-	50	50	2
Semester II								
I	Language – II		6	3	25	75	100	4
II	English – II		6	3	25	75	100	4
III	Core Paper II - Microbial Diversity		4	3	25	75	100	4
	Core Paper III - Cell Biology		3	3	25	75	100	4
	Core Practical I and Viva Voce		3	3	20	55	75	3
	Allied A : Paper II - Biostatistics and Computer Applications II		4	3	20	55	75	3
	Allied Practical		2	3	20	30	50	2
IV	Value Education – Human Rights #		2	3	-	50	50	2
Semester III								
I	Language – III		6	3	25	75	100	4
II	English – III		6	3	25	75	100	4
III	Core Paper IV - Microbial Physiology		4	3	25	75	100	4
	Core Practical II		3	3	-	-	-	-
	Allied B: Paper I – Biochemistry I		4	3	20	55	75	3
	Allied Practical		2	-	-	-	-	-
IV	Skill based Subject I - Diagnostic Microbiology – Organization of Clinical Microbiology Laboratory		3	3	20	55	75	3
	Tamil @ / Advanced Tamil# (OR) Non-major elective - I (Yoga for Human Excellence)# / Women's Rights#		2	3	50		50	2
Semester IV								
I	Language – IV		6	3	25	75	100	4
II	English – IV		6	3	25	75	100	4
III	Core Paper V – Basics of Material Sciences		4	3	25	75	100	4
	Core Practical – II		3	6	20	55	75	3
	Allied B : Paper II – Biochemistry II		4	3	20	55	75	3
	Allied Practical		2	3	20	30	50	2
IV	Skill based Subject 2 - Diagnostic Microbiology – Diagnostic Microbiology I (Bacteriology and		3	3	20	55	75	3

	Serology)						
	Tamil @ /Advanced Tamil # (OR) Non-major elective -II (General Awareness #)	2	3	50	50	100	2
	Semester V						
III	Core Paper VI - Microbial Genetics	5	3	25	75	100	4
	Core Paper VII – Principles of Immunology	4	3	25	75	100	4
	Core Paper VIII– Food Microbiology	4	3	25	75	100	4
	Core Paper IX – Introduction to Nanomaterials	4	3	25	75	100	4
	Elective 1	4	3	25	75	100	4
	Core Practical - III	6	3	-	-	-	-
IV	Skill based Subject 3 - Diagnostic Microbiology – Diagnostic Microbiology II (Virology and Mycology, Parasitology)	3	3	20	55	75	3
	Semester VI						
III	Core Paper X – Nanobiotechnology	4	3	25	75	100	4
	Core Paper XI – Environmental and Agricultural Microbiology	4	3	25	75	100	4
	Core Paper XII – Biomedical Applications of Nanomaterials	4	3	25	75	100	4
	Core Practical – III	6	9	40	60	100	4
	Elective – II	4	3	25	75	100	4
	Elective – III	4	3	25	75	100	4
IV	Skill Based Subject 4 - Diagnostic Microbiology – Practical I & II	4	3	20	55	75	3
V	Extension Activities @	-	-	-	-	50	2
	Total					3500	140

Students should undergo an institutional training for a continuous period of 15 days before semester VI

@ No University Examinations. Only Continuous Internal Assessment (CIA)

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List of Elective papers (Colleges can choose any one of the paper as electives)		
Elective – I	A	Recombinant Dna Technology
	B	Virology
	C	Bioinstrumentation – Principles and Applications
Elective – II	A	Fermentation Technology
	B	Dairy Microbiology
	C	Plant Biotechnology
Elective - III	A	Medical Microbiology
	B	Medical Biochemistry
	C	Entrepreneurial Microbiology

Note : The syllabi for the above papers be the same as prescribed for the academic year 2009-10