

BHARATHIAR UNIVERSITY : : COIMBATORE 641 046

B.Sc Biotechnology Curriculum (Affiliated Colleges)

(For the students admitted during the academic year 2020 – 21 onwards)

Part	Sub code	Study Components	Course title	Ins.hrs/ week	Examinations				Credit
					Dur/Hrs	CIA	Marks	Total Marks	
		Semester I							
I	11T/11H/11F	Language – I		6	3	25	75	100	4
II	12E	English – I		6	3	25	75	100	4
III	13A	Core Paper I - Cell biology		5	3	25	75	100	4
	13B	Core Paper II – Bioinstrumentation		4	3	25	75	100	4
		Practical I (Cell Biology, Bioinstrumentation and Microbiology)		3	-	-	-	-	-
	1AA	Allied A: Paper I : Basic Mathematics		4	3	20	55	75	3
IV	1FA	Environmental Studies #		2	3	-	50	50	2
		Semester II							
I	21T/21H/21F	Language – II		6	3	25	75	100	4
II	22E	English – II		6	3	25	75	100	4
III	23A	Core Paper III – Microbiology		5	3	25	75	100	4
	23P	Core Practical I (Cell Biology, Bioinstrumentation and Microbiology)		4	3	40	60	100	4
	2AH	Allied A : Chemistry		4	3	20	55	75	3
	2PH	Allied Practical (Chemistry)		3	3	20	30	50	2
IV	2FB	Value Education – Human Rights #		2	3	-	50	50	2
		Semester III							
I	31T/31H/31F	Language – III		6	3	25	75	100	4
II	32E	English – III		6	3	25	75	100	4
III	33A	Core Paper IV – Biochemistry		4	3	25	75	100	4
	33B	Core Paper V- Genetics		4	3	25	75	100	4
		Core Practical II (Genetics & Biochemistry)		2	-	-	-	-	-
	3AA	Allied B: Paper I – Computer applications I : Introduction to computers		3	3	20	55	75	3
IV	3ZA	Skill based Subject 1 - Human Physiology		3	3	20	55	75	3
	3FB/3FC	Tamil @ / Advanced Tamil# (OR) Non-major elective - I (Yoga for Human Excellence# / Women's Rights#/ Constitution of India #)		2	3	50		50	2

		Semester IV							
I	41T/41H/ 41F	Language – IV	6	3	25	75	100	4	
II	42E	English – IV	6	3	25	75	100	4	
III	43A	Core Paper VI- Molecular Genetics	4	3	25	75	100	4	
	43P	Core Practical – II (Genetics & Biochemistry)	3	3	40	60	100	4	
	4AA	Allied B : Paper II – Computer applications II- 'C' and Python programming	4	3	20	55	75	3	
	43Q	Allied Practical (Computer applications I & II)	2	3	20	30	50	2	
IV	4ZB	Skill based Subject 2 -Human Pathology	3	3	20	55	75	3	
	4FB/4FE	Tamil @ /Advanced Tamil # (OR) Non-major elective -II (General Awareness#)	2	3	50		50	2	
		Semester V							
III	53A	Core paper VII Plant & Animal Biotechnology	4	3	25	75	100	4	
	53B	Core Paper VIII Immunology	4	3	25	75	100	4	
	53C	Core Paper IX Environmental Biotechnology	4	3	25	75	100	4	
	53D	Core Paper X Recombinant DNA Technology	4	3	25	75	100	4	
		Core Practical III Immunology and Plant Tissue Culture	4	-	-	-	-	-	
		Core Practical IV Microbial Biotechnology & rDNA technology	3	-	-	-	-	-	
	5EA/5EB/ 5EC	Elective 1	4	3	25	75	100	4	
IV	5ZC	Skill based Subject 3 Diagnostic Tools	3	3	20	55	75	3	
		Semester VI							
III	63A	Core Paper XI – Microbial Biotechnology	5	3	25	75	100	4	
	63P	Core Practical III- Immunology and Plant Tissue Culture	6	6	40	60	100	4	
	63Q	Core Practical IV Microbial Biotechnology & rDNA technology	6	6	40	60	100	4	
	6EA/6EB/ 6EC	Elective – II	5	3	20	55	75	3	
	6ED/6EE/ 6EF	Elective – III	5	3	20	55	75	3	
IV	6ZD	Skill Based Subject 4 – Pharmacology	3	3	20	55	75	3	
V	67A	Extension Activities/Internship training (Research Institute/ Industry) @	-	-	50	-	50	2	
		Total					3500	140	