UG Course Structure
Programme: B.Sc., Biotechnology

Semester-wise Distribution of Courses, Credits and Contact Hours

Sem	Part	Course Type	Course Code	Course Title	Contact Hrs.	Credits	Marks		Total Marks
							Int.	Ext.	
I	I	Language	24UGT101/ 24UGH101/ 24UGA101	Tamil ElakkiyaVaralaru - I/Hindi – I/ Basic Arabic	6	3	25	75	100
	II	English	24UGE201	General English – I	6	3	25	75	100
	III	Generic/Cluster Core I	24ULS401	Cell and Molecular Biology	4	4	25	75	100
		Core Laboratory I	24ULS451	Practical in Cell and Molecular Biology	4	2	40	60	100
		Allied Course - I	24UMB301	Basic Microbiology	4	3	25	75	100
		Allied Laboratory - I	24UMB351	Microbiology Lab	4	-	-	-	-
	IV	Foundation Course	24UFO901	Value Education	2	2	25	75	100
Total					**30**	**17**	**-**	**-**	**600**
II	I	Language	24UGT102 24UGH102 24UGA102	Tamil ElakkiyaVaralaru – II Hindi - II Grammar and Translation	6	3	25	75	100
	II	English	24UGE202	General English – II	6	3	25	75	100
	III	Discipline centric Core I	24UBT501	Immunology and Immunotechnology	4	4	25	75	100
		Discipline Centric Core Laboratory	24UBT551	Immunology and Immunotechnology Lab	4	2	40	60	100
		Allied II	24UMB302	Medical Microbiology	4	3	25	75	100
		Allied Laboratory - I	24UMB351	Microbiology Lab	4	2	40	60	100
			24UBT591	Field Work	-	2	40	60	100
	IV	Foundation Course	24UFC905	Environmental Studies	2	2	25	75	100
Total					**30**	**21**	**-**	**-**	**800**
III	I	Language	24UGT103 24UGH103 24UGA103	TamilagaVaralarum Panpadum Hindi - III Prose and Poetry	6	3	25	75	100
	II	English	24UGE203	General English – III	6	3	25	75	100
	III	Generic Cluster Core II	24ULS402	Introductory to Bioinformatics & Biostatistics	4	4	25	75	100
		Discipline centric Core – II	24UBT502	r-DNA Technology	4	4	25	75	100
		Discipline centric	24UBT552	r-DNA Technology Lab	4	2	40	60	100

		Core Laboratory II							
		Allied Course III	24UBC303	Biochemistry	3	3	25	75	100
	IV	Ability Enhancement I	24UAB361	Life Skills Management	2	2	25	75	100
	V		24UHW951	Health & Wellness	1	1	-	-	100
Total					**30**	**22**	**-**	**-**	**800**
IV	I	Language	24UGT104/ 24UGH104/ 24UGA104	Tamilum Ariviyalum/ Hindi – IV/ Arabic Language Skills and Literary History	6	3	25	75	100
	II	English	24UGE204	General English – IV	6	3	25	75	100
	III	Generic Cluster Core III	24ULS403	Developmental Biology and Genetics	4	4	25	75	100
		Generic Cluster Core Laboratory III	24ULS452	Developmental Biology and Genetics lab	4	2	40	60	100
		Allied Course IV	24UBC304	Analytical Techniques in Biology	4	3	25	75	100
		Allied Laboratory II	24UBC352	Biochemistry Lab	4	2	40	60	100
			24UBT592	Internship	-	2	40	60	100
	IV	Ability Enhancement II	24UAB371	Soft and Quantitative Skills	2	2	25	75	100
Total					**30**	**21**	**-**	**-**	**800**
V	III	Discipline Centric Core III	24UBT503	Plant Biotechnology	5	4	25	75	100
		Discipline Centric Core IV	24UBT504	Animal Biotechnology	5	4	25	75	100
		Discipline Centric Core V	24UBT505	Genomics and Proteomics	5	4	25	75	100
		Core Laboratory	24UBT555	Plant and Animal Biotechnology, Genomics and Proteomics Lab	4	2	40	60	100
		Discipline Centric Elective I	-	Choose a knowledge course from any one track	4	4	25	75	100
		Discipline Centric Elective Laboratory	-	Choose a skill course from the selected track	4	2	40	60	100
		Discipline Centric Elective II	-	Choose a professional course from the selected track	4	4	25	75	100
	IV	Ability Enhancement III	24UBT381	Stem Cell Techniques	2	2	40	60	100
Total					**30**	**26**	**-**	**-**	**800**
VI	III	Generic Cluster Core IV	24ULS404	IPR, Bioethics and Biosafety	5	4	25	75	100
		Generic Cluster Elective	-	Courses offered by Botany	5	4	25	75	100

		Discipline centric Core VII	24UBT506	Industrial Biotechnology	4	4	25	75	100
		Discipline centric Core VIII	24UBT508	Environmental Biotechnology	4	4	25	75	100
		Discipline Centric Core IX	24UBT507	Food Technology	4	4	25	75	100
		Core Laboratory IV	24UBT556	Industrial, Environmental Biotechnology and Food Technology Lab	4	2	40	60	100
		Core Course	24UBT593	Project	5	5	40	60	100
		Open Interdisciplinary Elective	-	Courses offered by Biotechnology Department to students outside life sciences	3	3	25	75	100
Total					**30**	**30**	**-**	**-**	**800**
	V			Co-curricular Activities	-	1			-
				Extra-curricular Activities	-	1			-
				Extension Activities	-	1			-
					-	**3**			**-**

TOTAL CREDITS: 17+21+22+21+26+30+3= 140 Credits

TOTAL MARKS: 600+800+800+800+800+800 = 4600 Marks