

**B.Sc., MICROBIOLOGY
PROGRAMME STRUCTURE**

Sem	Subject code	Part	Course	Subject Title	Hours /Weeks	Credit	CIA	ESE	Total Marks
I	IBLT11 IBLA11 IBLH11	I	Language I	Tamil I / Basic Arabic I / General Hindi I	5	3	40	60	100
	IBLEI12 IBLEII12	II	Language II	English I a (or) b	5	3	40	60	100
	IBMBC11	III	Core I	Fundamentals of Microbiology	5	4	40	60	100
	IBMBC12P	III	Core II (Practical)	Lab Course in Fundamentals of Microbiology	5	4	40	60	100
	IBMBA13	III	AECC I	Biochemistry I	6	5	40	60	100
	IBMBS14	IV	SEC I	Introductory Virology	2	2	—	50	50
				Library	1				
				Games	1				
	Total				30	21	200	350	550
	IBLT21 IBLA21 IBLH21	I	Language I	Tamil II / Basic Arabic II / General Hindi II	5	3	40	60	100
	IBLEI22 IBLEII22	II	Language II	English II a (or) b	5	3	40	60	100
	IBMBC21	III	Core III	Microbial Physiology	4	4	40	60	100
	IBMBC22P	III	Core IV (Practical)	Lab Course in Microbial Physiology	4	4	40	60	100
	IBMBA23	III	AECC II	Biochemistry II	6	5	40	60	100
	IBMBS24P	IV	SEC II	Lab course in Aquaculture	2	2	—	50	50

II	IBES2	IV	GIC I	Environmental Science	2	2	–	50	50
	IBMBX2/ IBMBX2O		Extra Credit	Developmental Biology/*Online Course	–	2	–	100	100
				Library	1				
				Games	1				
	Total				30	23+ 2	200	400 +100	600 + 100
III	IBLT31 IBLA31 IBLH31	I	Language I	Tamil III / Basic Arabic III / General Hindi III	5	3	40	60	100
	IBLEI32 IBLEII32	II	Language II	English III a (or) b	5	3	40	60	100
	IBMBC31	III	Core V	Molecular Biology	4	4	40	60	100
	IBMBC32P	III	Core VI (Practical)	Lab Course in Molecular Biology	4	4	40	60	100
	IBMBA33	III	AECC I	Intellectual Property Rights	4	4	40	60	100
		IV	OEC I	Lab Course in Mushroom Cultivation #Internship	2	2	–	50	50
	IBMBS34	IV	SEC III	Bioinformatics *Integrated courses- Computer aided drug designing	2	2	–	50	50
	IBHR3	IV	GIC II	Human Rights	2	2	–	50	50
	IBXTN3	V	Extension Activities	NSS/CSS	2	2	100	–	100
	IBMBX3/ IBMBX3O		Extra Credit	Cell Biology/*Online Course	–	2	–	100	100
	Total				30	26 + 2	300	450+ 100	750 + 100
	IBLT41 IBLA41 IBLH41	I	Language I	Tamil IV / Basic Arabic IV / General Hindi IV	5	3	40	60	100
	IBLEI42 IBMBII42	II	Language II	English IV a (or) b	5	3	40	60	100

IV	IBMBC41	III	Core VII	Microbial Genetics	4	3	40	60	100
	IBMBC42	III	Core VIII	Medical Microbiology	4	3	40	60	100
	IBMBA43	III	AECC II	Bioinstrumentation	6	6	40	60	100
		IV	OEC II	Lab Course in Vermiculture	2	2	–	50	50
	IBLVE4	IV	GIC III	Life skills and Value Education	2	2	–	50	50
	IBMBS44P	IV	SEC IV (Practical)	Lab Course in Medical Lab Technology	2	2	–	50	50
	IBMBX4/ IBMBX4O		Extra Credit	Microbes in Human Welfare /*Online Course	–	2	–	100	100
	Total				30	24 + 2	200	450 + 100	650 + 100
V	IBMBC51	III	Core IX	Environmental and Agricultural Microbiology	5	4	40	60	100
	IBMBC52	III	Core X	Immunology #Internship	5	4	40	60	100
	IBMBC53P	III	Core XI (Practical)	Lab Course in Environmental and Agricultural Microbiology and Immunology	6	5	40	60	100
	IBMBE5A/I IBMBE5B	III	DSC I	a.Biostatistics / b. Computer Application in Biology	5	5	40	60	100
	IBMBE5C/I IBMBE5D	III	DSCII	a.Biotechnological Techniques / b. Bionanotechnology	5	5	40	60	100
	IBMBS54P	IV	SEC V	Lab Course in Vermiculture	2	2	–	50	50
	IBWE5	IV	GIC IV	Women Entrepreneurship	2	2	–	50	50
	IBMBX5/ IBMBX5O		Extra Credit	Skills for Employability Development/*Online Course		2		100	100
	Total				30	27 + 2	200	400 + 100	600 + 100

VI	IBMBBC61	III	Core XII	Food Microbiology *Integrated courses- Bioreactor	4	3	40	60	100
	IBMBC62	III	Core XIII	Industrial Microbiology	4	4	40	60	100
	IBMBC62P	III	Core XIV (Practical)	Lab Course in Food and Industrial Microbiology, Microbial Genetics and Medical Microbiology	8	5	40	60	100
	IBMBC64PW	III	Core XV	Project	6	5	40	60	100
	IBMBE6A/ IBMBE6B	III	DSCIII	a. Marine Microbiology/ b. Public Health and Hygiene	5	5	40	60	100
	IBMBS64P	IV	SEC VI	Lab Course in Mushroom Cultivation	2	2	–	50	50
				Library	1	–	–	–	–
	IBMBX6/ IBMBX6O		Extra Credit	Life Science for Competitive Examination/*Online Course	–	2	100	–	100
Total					30	24 + 2	200	350 + 100	550 + 100
Grand total					180	145 + 10	1300	2400 + 500	3700 + 500