

M.Sc., MICROBIOLOGY
PROGRAMME STRUCTURE

Semester	Subject code	Course	Subject Title	Hours/ Week	Credit	CIA Marks	ESE Marks	Total Marks
I	IMMBC11	Core I	General Microbiology	6	5	40	60	100
	IMMBC12	Core II	Biomolecules and Microbial Physiology	6	5	40	60	100
	IMMBC13	Core III	Molecular Biology and Microbial Genetics	6	5	40	60	100
	IMMBC14P	Core IV (Practical)	Lab course in General Microbiology, Biomolecules and Microbial Physiology, Molecular Biology and Microbial Genetics	6	5	40	60	100
	IMMBE1A/ IMMBE1B	DSE I	a. Algal Technology/ #Internship b. Enzymology	6	5	40	60	100
	IMMBX1/ IMMBX10	Extra Credit	Life Science for Competitive Examination/*Online Course		2		100	100
	Total			30	25+2	200	300+100	500+100
							0	
	IMMBC21	Core V	Food and Dairy Microbiology	6	5	40	60	100

II			*Integrated courses- Principles of Downstream process in Bioprocess					
	IMMBC22	Core VI	Environmental and Agricultural Microbiology	6	5	40	60	100
	IMMBC23	Core VII	Recombinant DNA Technology	6	5	40	60	100
	IMMBC24P	Core VIII (Practical)	Lab Course in Environmental and Agricultural Microbiology, Food and Dairy Microbiology	6	5	40	60	100
	IMMBE2A/ IMMBE2B	DSE II	a. Genomics and Proteomics/ b. Nanobiotechnology *Integrated courses- Biomedical Nanotechnology	6	5	40	60	100
	IMMBX2/ IMMBX2O	Extra Credit	Biofertilizer Production/*Online Course		2		100	100
	Total			30	25+2	200	300 +100	500 +100
	IMMBC31	Core IX	Medical Microbiology #Internship	6	5	40	60	100
	IMMBC32	Core X	Immunology &	6	5	40	60	100

III			Immunodiagnostics					
	IMMBC33	Core XI	Basics of Research Methodology	6	5	40	60	100
	IMMBC34P	Core XII (Practical)	Lab Course in Medical Microbiology, Immunology & Immunodiagnostics	6	5	40	60	100
	IMMBE3A/ IMMBE3B	DSE III	a. Bioethics, Biosafety and IPR/ b. Bioinformatics	6	5	40	60	100
	IMMBX3/ IMMBX3O	Extra Credit	Information Technology for Biologists/ *Online Course		2		100	100
	Total			30	25+2	200	300+100	500+100
							0	
IV	IMMBC41PW	Core XIII	Project	25	15	100	100	200
	IMMBX4	Compulsory Extra Credit	Employability Skills		2	100		100
			Library	5				
	Total			30	15+2	100+ 100	100	200+100
	Grand Total			120	90+8	700 + 100	1000 + 300	1700 + 400

DSE- Discipline Specific Elective

* For online certification credit alone will be assigned on submission of certificate obtained through appearing for online examination from the spoken tutorial, EDX, NPTEL or Coursera and other MHRD, MOOCs.