

Semester-wise undergraduate course distribution in Microbiology (as per CSR/52/2025 dated 31/07/2025)

For 4-year Honours Course

Semester	Course Type	Paper code (Course code)	Credit distribution	Course name	Details in page no.
I	IDC [†]	MCB-IDC	2 TH + 1TU	Introduction and Scope of Microbiology	3-4
	Core	MCB-H-CC-1-1 (CC101)*	3 TH + 1 P	Introduction to Microbiology and Microbial Diversity	5-6
	SEC	MCB-H-SEC-1-1 (SEC101)	3 TH + 1 TU	Food Fermentation Techniques and Packaging	7-8
II	IDC [†]	MCB-IDC	2 TH + 1TU	Introduction and Scope of Microbiology	3-4
	Core	MCB-H-CC-2-2 (CC102)*	3 TH + 1 P	Bacteriology	9-10
	SEC	Offered centrally by the university	2 TH + 2 TP	Artificial Intelligence (AI)	11-12
III	IDC [†]	MCB-IDC	2 TH + 1TU	Introduction and Scope of Microbiology	3-4
	Core	MCB-H-CC-3-3 (CC201)*‡	3 TH + 1 P	Biomolecules and Bioenergetics	13-14
	Core	MCB-H-CC-4-3 (CC202)	3 TH + 1 P	Microbial Physiology and Metabolism	15-16
	SEC	MCB-H-SEC-3-3 (SEC201)	3 TH + 1 TU	Biofertilizers and Biopesticides	17-18
IV	Core	MCB-H-CC-5-4 (CC203)	3 TH + 1 P	Molecular Biology	19-20
	Core	MCB-H-CC-6-4 (CC204)*‡	3 TH + 1 P	Microbiological Analysis of Air and Water	21
	Core	MCB-H-CC-7-4 (CC205)	3 TH + 1 P	Environmental Microbiology	22-23
	Core	MCB-H-CC-8-4 (CC206)	3 TH + 1 P	Food and Dairy Microbiology	24-25
V	Core	MCB-H-CC-9-5 (CC301)	3 TH + 1 P	Virology	26-27
	Core	MCB-H-CC-10-5 (CC302)	3 TH + 1 P	Microbial Genetics	28-29
	Core	MCB-H-CC-11-5 (CC303)	3 TH + 1 P	Industrial Microbiology	30-31
	Core	MCB-H-CC-12-5 (CC304)	3 TH + 1 P	Recombinant DNA Technology	32-33
VI	Core	MCB-H-CC-13-6 (CC305)	3 TH + 1 P	Microbial Biotechnology and Enzymology	34-35
	Core	MCB-H-CC-14-6 (CC306)	3 TH + 1 P	Bacterial Pathogenesis	36-37
	Core	MCB-H-CC-15-6 (CC307)	3 TH + 1 P	Cell Biology	38-39
	Internship [†]	MCB-INT-TU	0 TH + 3 TU	To be conducted during any of the even semesters	40
VII	Core	MCB-H-CC-16-7 (CC401)	3 TH + 1 TU	Fungal, Protozoal and Viral Pathogenesis	41-42
	Core	MCB-H-CC-17-7 (CC402)	3 TH + 1 P	Immunology	43-44
	Core	MCB-H-CC-18-7 (CC403)	3 TH + 1 P	Genetics and Genomics	45-46
	Core	MCB-H-CC-19-7 (CC404)	3 TH + 1 P	Plant Pathology	47-48
	Core	MCB-H-CC-20-7 (CC405)	3 TH + 1 TU	Ecology and Biodiversity	49-50

VIII	RM-1	Research Methodology 1	3 TH + 1 P	Instrumentation and Biotechniques	51-52
	RM-2	Research Methodology 2	3 TH + 1 TU	Essential Tools in Biological Research	53-54
	DSC	MCB-H-DSC-1-8 (DSC401) [only for Honours students]	3 TH + 1 P	Microbes in Sustainable Agriculture and Development	55-56
	DSC	MCB-H-DSC-2-8 (DSC402) [only for Honours students]	3 TH + 1 P	Advances in Microbiology	57-58
	DSC	MCB-H-DSC-3-8 (DSC403) [only for Honours students]	3 TH + 1 TU	Medical Biotechnology	59-60
	RI	MCB-H-RI [Only for Honours with Research students]	0 TH + 4 P	Research Internship	61
	DISS	MCB-H-DISS [Only for Honours with Research students]	0 TH + 8 P	Dissertation	62

***Courses available in minor and multidisciplinary combinations also; when chosen as minor, CC201 and CC204 will have to be taken together either in Semester V or VI, †IDC is to be taken in any one of the first three semesters only, †Internship can be conducted during any of the even semester to be eligible for exit after even semesters**

For 3-year Multidisciplinary course

Semester	Course Type	Paper code (Course code)	Credit distribution	Course name	Details in page no.
I	IDC [†]	MCB-MDC-IDC (MCB-IDC)	2 TH + 1 TU	Introduction and Scope of Microbiology	3-4
	Core	MCB-MDC-CC-1-1 (CC101)*	3 TH + 1 P	Introduction to Microbiology and Microbial Diversity	5-6
	SEC [#]	MCB-MDC-SEC (SEC101)	4 TH + 0 P	Food Fermentation Techniques and Packaging	7-8
II	IDC [†]	MCB-MDC-IDC (MCB-IDC)	2 TH + 1 TU	Introduction and Scope of Microbiology	3-4
	SEC [#]	MCB-MDC-SEC (SEC101)	4 TH + 0 P	Food Fermentation Techniques and Packaging	7-8
	Core	MCB-MDC-CC-2-2 (CC102)*	3 TH + 1 P	Bacteriology	9-10
III	IDC [†]	MCB-MDC-IDC (MCB-IDC)	2 TH + 1 TU	Introduction and Scope of Microbiology	3-4
	SEC [#]	MCB-MDC-SEC (SEC101)	4 TH + 0 P	Food Fermentation Techniques and Packaging	7-8
	Core	MCB-MDC-CC-3-3 (CC201)*	3 TH + 1 P	Biomolecules and Bioenergetics	13-14
	Minor	MCB-MDC-MN-1-3 (CC101)	3 TH + 1 P	Introduction to Microbiology and Microbial Diversity	5-6
IV	Core	MCB-MDC-CC-4-4 (CC204)*	3 TH + 1 P	Microbiological Analysis of Air and Water	21
	Core	MCB-MDC-CC-5-4 (MDC-CC205)*	3 TH + 1 P	Microbial Genetics and Molecular Biology	63-64
	Minor	MCB-MDC-MN-2-4 (CC102)	3 TH + 1 P	Bacteriology	9-11
V & VI	Core [‡] (Semester V only)	MCB-MDC-CC-6-5 (MDC-CC301)*	3 TH + 1 P	Genetic Engineering and Biotechnology	65-66
	Core [‡] (Semester V or VI)	MCB-MDC-CC-7-5/6 (MDC-CC302)	3 TH + 1 P	Microbial Metabolism	67-68
	Core [‡] (Semester VI only)	MCB-MDC-CC-8-6 (MDC-CC303)	3 TH + 1 P	Medical Microbiology and Immunology	69-70
	Minor (Semester V only)	MCB-MDC-MN-3-5 (CC201)	3 TH + 1 P	Biomolecules and Bioenergetics	13-14
	Minor (Semester V only)	MCB-MDC-MN-4-5 (CC204)	3 TH + 1 P	Microbiological Analysis of Air and Water	21
	Minor (Semester VI only)	MCB-MDC-MN-5-6 (MDC-CC205)	3 TH + 1 P	Microbial Genetics and Molecular Biology	62-63
	Minor (Semester VI only)	MCB-MDC-MN-6-6 (MDC-CC301)	3 TH + 1 P	Genetic Engineering and Biotechnology	64-65

***Courses offered in both major and minor combinations, †IDC and #SEC courses are to be taken in any one of the first three semesters only, †Internship to be conducted during the entire duration of any even semester (see page 71), ‡Students will have to choose one course in semester V and two in semester VI or vice versa, depending on the order of the selected major subject**