

UNIVERSITY OF CALCUTTA

Notification No. CSR/57/2024

It is notified for information of all concerned that in terms of the provisions of Section 54 of the Calcutta University Act, 1979, (as amended), and, in the exercise of her powers under 9(6) of the said Act, the Vice-Chancellor has, by an order dated 01.07.2024 approved some amendments in the paper code of semesters VI, VII, VIII of Microbiology (4-year Honours & Honours with Research and, Three-year MDC), under CCF 2022, under this University. The amended version is laid down in the accompanying pamphlet.

The above shall take immediate effect.

SENATE HOUSE

Kolkata-700073

14.08.2024

Prof.(Dr.) Debasis Das

Registrar

Semester-wise undergraduate courses in Microbiology (NEP-2020 structure) (For 4-year Honours Course)

Semester	Course Type	Paper code (Course code)	Credit distribution	Course name
	IDC†	MCB-IDC	2 TH + 1TU	Introduction and Scope of Microbiology
I	Core	MCB-H-CC-1-1 (CC101)*	3 TH + 1 P	Introduction to Microbiology and Microbial Diversity
	SEC	MCB-H-SEC-1-1 (SEC101)	4 TH + 0 P	Food Fermentation Techniques and Packaging
	IDC†	MCB-IDC	2 TH + 1TU	Introduction and Scope of Microbiology
II	Core	MCB-H-CC-2-2 (CC102)*	3 TH + 1 P	Bacteriology
	SEC	Offered centrally by the university	4 TH + 0 P	AI for everyone
	IDC [†]	MCB-IDC	2 TH + 1TU	Introduction and Scope of Microbiology
III	Core	MCB-H-CC-3-3 (CC201)*	3 TH + 1 P	Biomolecules and Bioenergetics
	Core	MCB-H-CC-4-3 (CC202)	3 TH + 1 P	Microbial Physiology and Metabolism
	SEC	MCB-H-SEC-3-3 (SEC201)	4 TH + 0 P	Biofertilizers and Biopesticides
	Core	MCB-H-CC-5-4 (CC203)	3 TH + 1 P	Molecular Biology
IV	Core	MCB-H-CC-6-4 (CC204)*	3 TH + 1 P	Microbiological Analysis of Air and Water
	Core	MCB-H-CC-7-4 (CC205)	3 TH + 1 P	Environmental Microbiology
	Core	MCB-H-CC-8-4 (CC206)	3 TH + 1 P	Food and Dairy Microbiology
	Core	MCB-H-CC-9-5 (CC301)	3 TH + 1 P	Virology
\mathbf{V}	Core	MCB-H-CC-10-5 (CC302)	3 TH + 1 P	Microbial Genetics
	Core	MCB-H-CC-11-5 (CC303)	3 TH + 1 P	Industrial Microbiology
	Core	MCB-H-CC-12-5 (CC304)	3 TH + 1 P	Recombinant DNA Technology
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X7T	Core	MCB-H-CC-13-6 (CC305)	3 TH + 1 P	Microbial Biotechnology and Enzymology
VI	Core	MCB-H-CC-14-6 (CC306)	3 TH + 1 P	Bacterial Pathogenesis
	Core	MCB-H-CC-15-6 (CC307)	3 TH + 1 P	Cell Biology
	Internship	MCB-INT-TU	0 TH + 3 TU	To be conducted during the semester
	Core	MCB-H-CC-16-7 (CC401)	3 TH + 1 P	Fungal, Protozoal and Viral Pathogenesis
VII	Core	MCB-H-CC-10-7 (CC401) MCB-H-CC-17-7 (CC402)	3 TH + 1 P	Instrumentation and Biotechniques
V 11	Core	MCB-H-CC-17-7 (CC402) MCB-H-CC-18-7 (CC403)	3 TH + 1 TU	Essential Tools in Biological Research
	Core	MCB-H-CC-18-7 (CC403) MCB-H-CC-19-7 (CC404)	3 TH + 1 P	Immunology
	DSC	MCB-H-DSC-1-7 (DSC401) [for Non-research students]	3 TH + 1 P	Microbes in Sustainable Agriculture and Development
	DSC	WCD-11-D3C-1-7 (D3C401) [101 NOII-TESEDICII SUUDIIIS]	3 111 + 1 1	Microbes in Sustamable Agriculture and Development

	Core	MCB-H-CC-20-8 (CC405)	3 TH + 1 TU	Ecology and Biodiversity
VIII	Core	MCB-H-CC-21-8 (CC406)	3 TH + 1 P	Genetics and Genomics
	Core	MCB-H-CC-22-8 (CC407)	3 TH + 1 P	Plant Pathology
	DSC	MCB-H-DSC-2-8 (DSC402) [for Non-research students]	3 TH + 1 P	Advances in Microbiology
	DSC	MCB-H-DSC-3-8 (DSC403) [for Non-research students]	3 TH + 1 TU	Medical Biotechnology

^{*}Courses offered in minor and multidisciplinary combinations also, †IDC is to be taken in any one of the first three semesters only, ^IInternship can be conducted during the entire duration of any semester to be eligible for exit after even semesters

(For 3-year Multidisciplinary course)

Semester	Course Type	Paper code	Credit	Course name
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I	IDC [†]	MCB-MDC-IDC (MCB-IDC)	2 TH + 1TU	Introduction and Scope of Microbiology
	Core	MCB-MDC-CC-1-1 (CC101)*	3 TH + 1 P	Introduction to Microbiology and Microbial Diversity
	SEC#	MCB-MDC-SEC (SEC101)	4 TH + 0 P	Food Fermentation Techniques and Packaging
II	IDC [†]	MCB-MDC-IDC (MCB-IDC)	2 TH + 1TU	Introduction and Scope of Microbiology
11	SEC#	MCB-MDC-IDC (MCB-IDC) MCB-MDC-SEC (SEC101)	4 TH + 0 P	Food Fermentation Techniques and Packaging
	Core	MCB-MDC-SEC (SEC101)* MCB-MDC-CC-2-2 (CC102)*	3 TH + 1 P	Bacteriology
III	IDC [†]	MCB-MDC-IDC (MCB-IDC)	2 TH + 1TU	Introduction and Scope of Microbiology
111	SEC#	MCB-MDC-SEC (SEC101)	4 TH + 0 P	Food Fermentation Techniques and Packaging
	Core	MCB-MDC-CC-3-3 (CC201)*	3 TH + 1 P	Biomolecules and Bioenergetics
	Minor	MCB-MDC-MN-1-3 (CC101)	3 TH + 1 P	Introduction to Microbiology and Microbial Diversity
IV	Core	MCB-MDC-CC-4-4 (CC204)*	3 TH + 1 P	Microbiological Analysis of Air and Water
	Core	MCB-MDC-CC-5-4 (MDC-CC205)*	3 TH + 1 P	Microbial Genetics and Molecular Biology
	Minor	MCB-MDC-MN-2-4 (CC102)	3 TH + 1 P	Bacteriology
	Core [‡]	MCB-MDC-CC-6-5/6 (MDC-CC301)*	3 TH + 1 P	Genetic Engineering and Biotechnology
${f v}$	Core [‡]	MCB-MDC-CC-7-5/6 (MDC-CC302)	3 TH + 1 P	Microbial Metabolism
	Core [‡]	MCB-MDC-CC-8-5/6 (MDC-CC303)	3 TH + 1 P	Medical Microbiology and Immunology
&	Minor	MCB-MDC-MN-3-5 (CC201)	3 TH + 1 P	Biomolecules and Bioenergetics
	(Semester V only)			
VI	Minor	MCB-MDC-MN-4-5 (CC204)	3 TH + 1 P	Microbiological Analysis of Air and Water
	(Semester V only)			
	Minor	MCB-MDC-MN-5-6 (MDC-CC205)	3 TH + 1 P	Microbial Genetics and Molecular Biology
	(Semester VI only)	Man Mind May 6 6 A find against	2 my 1 p	
	Minor (Semester VI only)	MCB-MDC-MN-6-6 (MDC-CC301)	3 TH + 1 P	Genetic Engineering and Biotechnology

^{*}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 of semester, *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