

B.SC., MICROBIOLOGY **(Year of Establishment-1994)**

Eligibility criteria for admission

Candidates for admission to the first year of the Degree of Bachelor of Science courses shall be required to have passed the Higher Secondary Examinations (Academic or Vocational Stream) conducted by the Government of Tamil Nadu or an Examination accepted as equivalent thereof by the Syndicate of the University of Madras. Provided that candidates for admission into the Microbiology main subject of study shall be possess such other qualifying conditions as may be prescribed by the University as **BIOLOGY / BOTANY / ZOOLOGY SUBJECTS.**

B.Sc. MICROBIOLOGY **Choice Based Credit System (CBCS)** (Effective from the academic year 2013-2014)

SEMESTER I

Course Component	Name of the Paper	Subject Code	Inst. Hrs.	Credits	Exam Hrs.	Max. Marks		
						External Marks	Internal Marks	Total
Part I	Tamil-I	CLA1L	4	3	3	75	25	100
Part II	English-I	CLZ1L	4	3	3	75	25	100
Part II Core paper I	General microbiology and microbial physiology	TAN1A	6	4	3	75	25	100
Core paper II Paper III	Major Practical- I(General microbiology and microbial physiology)	TAN21	3	4	6	60	40	100
Paper II	Biochemistry I	TBPBA	3	4	3	75	25	100
Non Major Elective	Non Major Elective: Cellular organization	SNN1A	2	2	3	75	25	100
Soft Skill - I	Language & Communication Skills Level-1	TSSEA	2	2	3	50	50	100

SEMESTER II

Course Component	Name of the Paper	Subject Code	Inst. Hrs.	Credits	Exam Hrs.	Max. Marks		
						External Marks	Internal Marks	Total
Part I	Tamil-II	CLA2H	4	3	3	75	25	100
Part II	English-II	CLZ2L	4	3	3	75	25	100
Part III Core paper III	Immunology microbial genetics	TAN2A	6	4	3	75	25	100
Part III Core paper IV	Major Practical-II (Immunology microbial genetics)	TAN22	3	4	6	60	40	100
paper III Allied	Biochemistry-II	TBPBB	6	4	3	75	25	100
Paper IV	Practical I (Biochemistry-I)	TBPB1	3	4	3	60	40	100
Non Major Elective	Inheritance biology	SNN2E	2	2	3	75	25	100
Soft Skill - II	Language and Communication Level - 2	TSSEB	2	2	3	50	50	100

SEMESTER III

Course Component	Name of the Paper	Subject Code	Inst. Hrs.	Credits	Exam Hrs.	Max. Marks		
						External Marks	Internal Marks	Total
Part I	Tamil-III	CLA3J	6	3	3	75	25	100
Part II	English-III	CLZ3M	6	3	3	75	25	100
Part III Core paper V	Molecular biology	TAN3A	6	4	3	75	25	100
Core paper VI	Major Practical-III: Molecular biology	TAN41	3	4	6	60	40	100
paper I Allied II	Bioinstrumentation	TBN3A	6	4	6	75	25	100
Paper II	Practical III (Bioinstrumentation)	TBN41	3	4	3	60	40	100
Soft Skill - III	Personality enrichment	TSSEG		2	3	50	50	100
Part IV	Environmental Studies	ENV4A				Exam in IV Semester		

SEMESTER IV

Course Component	Name of the course	Subject Code	Inst. Hrs.	Credits	Exam Hrs.	Max. Marks		
						External Marks	Internal Marks	Total
Part I	Tamil-IV	CLA4D	6	3	3	75	25	100
Part II	English-IV	CLZ4M	6	3	3	75	25	100
Part III Core Paper VII	Soil and Agricultural microbiology	TAN4A	6	4	3	75	25	100
Core Paper VIII	Major practical IV (Soil and Agricultural microbiology)	TAN42	3	4	6	60	40	100
Paper III Allied II	Biostatistics	TBN4A	6	4	3	75	25	100
Paper IV	Practical IV Biostatistics	TBN42	3	4	3	60	40	100
Soft Skill - IV	Computing skills	TSSE1			3	50	50	100
Part IV	Environmental Studies	ENV4A			3	75	25	100

SEMESTER V

Course Component	Name of the Paper	Subject Code	Inst. Hrs.	Credits	Exam Hrs.	Max. Marks		
						External Marks	Internal Marks	Total
Core paper IX	Medical Bacteriology	TAN5A	6	4	3	75	25	100
Core paper X	Medical Mycology and Parasitology	TAN5B	6	4	3	75	25	100
Core paper XI	Medical Virology	TAN5C	6	4	3	75	25	100
Core paper XII	Major Practical V (Medical Bacteriology, Mycology, Parasitology and Virology)	TAN61	6	4	6	60	40	100
Elective I	Genetic Engineering	TEN5A	6	3	3	75	25	100
	Value Education	VAE5Q		2	3	75	25	100

SEMESTER VI

Course Component	Name of the Paper	Subject Code	Inst. Hrs.	Credits	Exam Hrs.	Max. Marks		
						External Marks	Internal Marks	Total
Core paper XIII	Environmental Microbiology	TAN6A	6	4	3	75	25	100
Core paper XIV	Food AND Dairy Microbiology	TAN6B	6	4	3	75	25	100
Core paper XV	Major Practical VI (Environmental, Food and Dairy Microbiology)	TAN62	6	4	6	60	40	100
Elective II	Industrial and Pharmaceutical Microbiology	TEN6A	6	3	3	75	25	100
Elective III	Biotechnology	TEN6B	6	3	3	75	25	100
Part V	Extension Activities	CES6Q	-	1				

