



University of Madras – CBCS Regulations

B.Sc. (Bio-Chemistry) – Syllabus

SEMESTER-I

Course Component Name of the course	Inst. Hour	Credits	Exam Hours	Max. Marks		
				Ext.mark	Int. mark	Total
PART-I Language paper I	5	3	3	75	25	100
PART-II English paper I	5	3	3	75	25	100
PART-III Paper I: Cell Biology	5 +3	4	3	75	25	100
AS 1: Paper I: Chemistry	6	5	3	75	25	100
PART – IV 1.(a) Those who have not studied Tamil up to XII Std. and taken a Non-Tamil Language under Part-I shall take Tamil comprising of two course (level will be at 6 th Standard). (b) Those who have studies Tamil up to XII Std. and taken a Non-Tamil Language under Part-I shall take Advanced Tamil comprising of two courses.						

(c) Others who do not come under a + b can choose non-major elective comprising of two courses.						
Skill based subjects (Elective) - (Soft Skill)						

SEMESTER II

Course Component Name of the course	Inst. Hour	Credits	Exam Hours	Max. Marks		
				Ext.mark	Int. mark	Total
PART-I Language paper II	5	3	3	75	25	100
PART-II English paper II	5	3	3	75	25	100
PART-III Paper II: Chemistry of Biomolecules	7	4	3	75	25	100
Paper -III Practical - I	3	5	3	60	40	100
AS 1: Paper II: Practicals	6	5	3	60	40	100
PART - IV 1.(a) Those who have not studied Tamil up to XII Std. and taken a Non-Tamil Language under Part-I shall take Tamil comprising of two course (level will be at 6 th Standard). (b) Those who have studies Tamil up to XII Std. and taken a Non-Tamil Language under Part-I shall take Advanced Tamil comprising of two courses. (c) Others who do not come under a + b can choose non-major elective comprising of two courses.						

SEMESTER III

Course component	Name of the course	Inst. Hrs.	Credits	Exam Hrs.	Max. Marks		
					Ext. Marks	Int. Marks	Total
Part I	Language paper III	6	3	3	75	25	100
Part II	English paper III	6	3	3	75	25	100
Part III	C: Paper IV: Biochemical Techniques -I	6	5	3	75	25	100
Part III	C: Paper VI: Practical II	3			Exam in IV semester		
Part III	AS 2: Paper I:	6	4	3	75	25	100
Part III	AS 2: Paper III: (Practical)	3			Exam in IV semester		
Part IV	Soft skills		3	3	60	40	100
	Environmental Studies				Exam in IV semester		

SEMESTER IV

Course component	Name of the course	Inst. Hrs.	Credits	Exam Hrs.	Max. Marks		
					Ext. Marks	Int. Marks	Total
Part I	Language Paper IV	6	3	3	75	25	100
Part II	English Paper IV	6	3	3	75	25	100
Part III	C: Paper V: Biochemical Techniques- II	6	5	3	75	25	100
Part III	C: Paper VI: Practical II	3	4	6	60	40	100
Part III	AS 2: Paper II:	6	4	3	75	25	100
Part III	AS 2: Paper III: (Practical)	3	2	3	60	40	100
Part IV	Soft skills		3	3	60	40	100
	Environmental Studies		2	3	75	25	100

SEMESTER V

Course component	Name of the course	Inst. Hrs.	Credits	Exam Hrs.	Max. Marks		
					Ext. Marks	Int. Marks	Total
Part III	C: Paper VII: Enzymes	6	5	3	75	25	100
Part III	C: Paper VIII: Intermediary metabolism	6	5	3	75	25	100
Part III	C: Paper IX: Molecular Biology	6	5	3	75	25	100
Part III	Paper XII -Practical III	6	Exam in VI semester				
Part III	Elective- I Biotechnology	6	5	3	75	25	100
Part IV	Value Education		2				

SEMESTER VI

Course component	Name of the course	Inst. Hrs.	Credit	Exam Hrs.	Max. Marks		
					Ext. Marks	Int. Marks	Total
Part III	C: Paper X: Nutritional Biochemistry and Human Rights	6	5	3	75	25	100
Part III	C: Paper XI: Clinical Biochemistry	6	5	3	75	25	100
Part III	C: Paper XII: Practical III		4	6	60	40	100
Part III	C: Paper XIII: Practical IV	6	4	6	60	40	100
Project/ Elective	Elective-II Immunology	6	5	3	75	25	100
	Elective- III Physiology	6	5	3	75	25	100
Part V	Extension Activities		1				