Programme Name: MSc Biochemistry

Summary of Courses in Chemistry from semester 1-4

DEPARTMENT OF BIOCHEMSITRY

Semester 1	Code Number	Title	No of hours of instructions	Number of hours of teaching per week	Number of credits	Continuous Assessment (CA) Marks	End semester marks	Total marks
Theory	BCH 7126	Bio-organic Chemistry and Chemical Biology	60	4	4	50	50	100
Theory	BCH 7226	Biophysics and Analytical Biochemistry	60	4	4	50	50	100
Theory	BCH 7326	Metabolism and Bioenergetics - I	60	4	4	50	50	100
Theory	BCH7426	Biomolecules and Biomolecular Structures	60	4	4	50	50	100
Practical	BCH 7P1 26	Extraction and Partial Purification of Biomolecules	88	4	4	40	60	100
Practical	BCH 7P2 26	Characterization of Biomolecules	88	4	4	40	60	100

Semester 1	Code Number	Title	No of hours of instructions	Number of hours of teaching per week	Number of credits	Continuous Assessment (CA) Marks	End semester marks	Total marks
Total Number of credits:					24			

Semester 2	Code Number	Title	No of hours of instructions	Number of hours of teaching per week	Number of credits	Continuous Assessment (CA) Marks	End semester marks	Total marks
Theory	BCH 8126	Enzymology and Enzyme Technology	60	4	4	50	50	100
Theory	BCH 8226	Bioinorganic and Bioorganic Chemistry Lab	60	4	4	50	50	100
Theory	BCH 8326	Advanced cell and Molecular Biology	60	4	4	50	50	100
Theory	BCH 8426	Biomembranes, Neurochemistry and Biosignalling	60	4	4	50	50	100
Theory	BCH 8526	Biopharmaceutical Chemistry	60	4	4	50	50	100
Practical	BCH 8P1 26	Enzymology Lab	88	4	4	40	60	100
Practical	BCH 8P2 26	Food and Nutrition Lab	88	4	4	40	60	100
Total Number of credits:					28			

Semester 3	Code Number	Title	No of hours of instructions	Number of hours of teaching per week	Number of credits	Continuous Assessment (CA) Marks	End semester marks	Total marks
Theory	BCH 9126	Bioinformatics and Computational Biology	60	4	4	50	50	100
Theory	BCH 9226	Genetics, Genetic Engineering and Cancer Biology	60	4	4	50	50	100
Theory	BCH 9326	Immunology and Immunological Techniques	60	4	4	50	50	100
Theory	BCH 9426	Plant and Microbial Biochemistry	60	4	4	50	50	100
Theory	BCH 9526	Research Methodology and Scientific Writing	60	4	4	50	50	100
Practical	BCH 8P1 26	Plant and Microbial Biochemistry Lab	88	4	4	40	60	100
Practical	BCH 8P2 26	Molecular Biology and Genetic Engineering Lab	88	4	4	40	60	100
Total Number of credits:					28			

Semester 4	Code Number	Title	No of hours of instructions	Number of hours of teaching per week	Number of credits	Continuous Assessment (CA) Marks	End semester marks	Total marks
Project	BCH 0125	Biochemistry Project	360	12	12	40	60	350
Theory	-	IGNITORS / OUTREACH	30	2	4	-	-	-
Practical	-	Registered NPTEL course	-	-	3	-	-	-
Total Number of credits:					19			

Total no. of credits from six semesters from core Biochemistry: S1+S2+S3+S4	**92**
Additional Credits – Ignitors (4 credits), Outreach and NPTEL course (3 credits)	**7**
Total no. of credits	**99**