

BHARATHIAR UNIVERSITY, COIMBATORE.
M. Sc. BIOINFORMATICS DEGREE COURSE WITH COMPULSORY
DIPLOMA IN GENOME TECHNOLOGY (Affiliated Colleges)
(Effective from the academic Year 2008-2009)
SCHEME OF EXAMINATIONS – CBCS PATTERN

Sem.	Study Components	Course title	Ins. hrs/ week	Exam				Credit
				Dur.Hr.	CIA	Marks	Total Marks	
I	Paper I	Fundamentals of biological systems	5	3	25	75	100	5
	Paper II	Structure and functions of Biomolecules	5	3	25	75	100	5
	Paper III	Computer programming in C	5	3	25	75	100	5
	Paper IV	Computational methods for sequence analysis	5	3	25	75	100	5
	Practical I	Computer programming	3	-	-	-	-	-
	Practical II	Biological databanks and sequence analysis	3	-	-	-	-	-
II	Dip. Paper I	Biology of cloning vectors	2	3	25	75	100	3
	Dip. Pract. I	Molecular techniques	2	-	-	-	-	-
	Paper V	Molecular interaction	5	3	25	75	100	5
	Paper VI	Systems biology	5	3	25	75	100	5
	Paper VII	Introduction to Visual basic with RDBMS	5	3	25	75	100	5
	Paper VIII	Mathematical methods and statistical techniques	5	3	25	75	100	5
III	Practical I	Computer programming	3	3	40	60	100	3
	Practical II	Biological databanks and sequence analysis	3	3	40	60	100	3
	Dip. Paper II	Methods of gene transfer and genome sequencing	2	3	25	75	100	3
	Dip.Pract. I	Molecular techniques	2	6	20	30	50	2
	Paper IX	Genomics	5	3	25	75	100	5
	Paper X	Proteomics	5	3	25	75	100	5
IV	Paper XI	Molecular modeling and computer aided drug designing	5	3	25	75	100	5
	Paper XII	Perl Programming for Bioinformatics	5	3	25	75	100	5
	Practical III	Perl programming	3	3	-	-	-	-
	Practical IV	Computer aided drug design	3	3	-	-	-	-
	Dip. Paper III	Applications of rDNA technology	2	3	25	75	100	2
	Dip.Pract. II	rDNA Technology	2	-	-	-	-	-
IV	Practical III	Perl programming	-	3	40	60	100	3
	Practical IV	Computer aided drug design	-	3	40	60	100	3
	Dip.Pract. II	rDNA Technology	-	6	20	30	50	2
	Project	Project work	-	-	-	-	200*	6
Total							2200	90

* Project report - 160 marks; Viva-voce – 40 marks.

Note: The syllabi for the above papers be the same as prescribed for the academic year 2007-08