

**POKHARA UNIVERSITY
CURRICULUM STRUCTURE
M.Sc. in Bioinformatics**

Semester I		
Course Code	Course Description	Credit Hours
BIN501	Bioinformatics I	3
BST501	Biostatistics	3
MTH501	Mathematics and Algorithm for Bioinformatics	3
CMS501	Computer Science	3*
CMB501	Cell Biology	3*
CMB502	Molecular Biochemistry	3
		15
Semester II		
Course Code	Course Description	Credit Hours
BIN551	Bioinformatics II	3
BIN552	Programming for Bioinformatics	3
CMB551	Frontiers in Molecular Biology	3
CMB552	Functional Genomics	3
RES551	Directed Research I	3
		15
Semester III		
Course Code	Course Description	Credit Hours
BIN601	Bioinformatics III	3
BIN602	Data Warehouse and Data Mining	3
BIN603	Molecular Modeling and Drug Design	3
RES601	Directed Research II	3
	Electives#	3
CMB601	Population and Evolutionary Genomics	
CMB602	Genetic Engineering	
CMB603	System Biology	
CMB604	Molecular Genetics	

BIN606	Medical Informatics and Translational Medicine	
BIN605	Chemoinformatics	
		15
Semester IV		
Course Code	Course Description	Credit Hours
BIN699	Thesis	15
Total credits for all semester in two years		60