## Outcomes Based Education (OBE) Framework Two Year Full Time Graduate Program

## M.Sc. Molecular Biology and Human Genetics

FIRST YEAR: Semester: 1					
Course Code	Course Title	No. of hours per week			Credits
		Lecture	Tutorial	Practical	Cicuits
MBH 501	Cell Biology	3	-	-	3
MBH 503	Biomolecules	3	-	-	3
MBH 505	Human Genetics	3	-	-	3
MBH 507	Molecular Biology I	3	-	-	3
MBH 509	Human Genetics	-	-	8	3
MBH 511	Molecular Biology	-	-	8	3
MBH 513	Soft Skills (Tutorials/ Seminar/Review paper writing)	-	3	-	2
	Total	12	3	16	20

FIRST YEAR: Semester: 2					
Course Code	Course Title	No. of hours per week			Credits
		Lecture	Tutorial	Practical	Creates
MBH 502	Immunology and Immunogenetics	3	-	-	3
MBH 504	Molecular Medicine	3	-	-	3
MBH 506	Molecular Biology II	3	-	-	3
MBH 508/ MBH 510	Cancer Biology/ Mathematics & R Programming	3	-	-	3
MBH 512	Cell Biology	-	-	8	3
MBH 514	Molecular Diagnostics	-	-	8	3
MBH 516	Soft Skills (Tutorials/ Seminar/Review paper writing)	-	3	-	2
	Total	12	3	16	20

SECOND YEAR: Semester: 3					
Course Code	Course Title	No.	No. of hours per week		
		Lecture	Tutorial	Practical	Credits
MBH 601	Biostatistics and Bioinformatics	3	-	-	3
MBH 603	Recombinant DNA Technology	3	-	-	3
MBH 605	Research Methodology	3	-	-	3
MBH 607/	Bioclinical Genetics /	3	_	-	3
MBH 609	Quality Assurance & Accreditation	3	-		
MBH 611	Biostatistics and Bioinformatics	-	-	6	2
MBH 613	Laboratory Rotation	-	-	6	2
MBH 615	Review Article	-	-	6	2
MBH 617	Soft Skills (Tutorials/ Seminar/Review paper writing)	-	3	-	2
	Total	12	3	18	20

SECOND YEAR: Semester: 4						
Course Code	Course Title	No. of hours per week			Credits	
		Lecture	Tutorial	Practical	Cicuits	
MBH 602	Seminar/Presentation & Progress	-	-	8	4	
MBH 699	Research Project/ Submission of dissertation/Submission of manuscript	-	-	32	16	
	Total			40	20	