

MS Human Genetics									
YEAR 1									
Semester (I) – Fall					Semester (II) - Spring				Summer break
Course Code	Course	Credit Hours	Course Type		Course Code	Course	Credit Hours	Course Type	
RMS-724	Research Methodology and Biostatistics	3(3+0)	C1		GEN-721	Human Molecular Genetics	3(3+0)	C4	
MBS-721	Advances in Cell and Molecular Biology	3(3+0)	C2		MBS-711	Current Trends in Research Techniques	3(1+2)	C5	
GEN-711	Advances in OMICs studies	3(3+0)	C3			Elective-II	3	E2	
	Elective-I	3	E1			Elective-III	3	E3	
<b>Total Credit Hours</b>		<b>12</b>			<b>Total Credit Hours</b>		<b>12</b>		
YEAR 2									
Semester (III) – Fall					Semester (IV) - Spring				Summer break
Course Code	Course	Credit Hours	Course Type		Course Code	Course	Credit Hours	Course Type	
MBS-731	Seminar	2(2+0)	C6		GEN-799-2	MS Research Work	6(6+0)		
GEN-799-1	MS Research Work	4(4+0)							
<b>Total Credit Hours</b>		<b>6</b>			<b>Total Credit Hours</b>		<b>6</b>		

LIST OF ELECTIVES			
ELECTIVE-I			
Course Code	Course	Credit Hours	Course Type
GEN-701	Cell Signaling and Signal Transduction	3(3+0)	E
GEN-702	Molecular Bases of Cancer	3(3+0)	E
MIC-712	Advances in Immunology	3(3+0)	E
ELECTIVE-II			
Course Code	Course	Credit Hours	Course Type
GEN-703	Human Disease Modeling	3(3+0)	E
GEN-704	Developmental Mechanism of Human Diseases	3(3+0)	E
BIF-721	Advances in Bioinformatics	3(3+0)	E
ELECTIVE-III			
Course Code	Course	Credit Hours	Course Type
GEN-705	Human Stem Cell Biology	3(3+0)	E
GEN-706	Evolutionary and Population Genetics	3(3+0)	E
GEN-707	Current Topics in Medical Genetics	3(3+0)	E