

Curriculum 2025-26

MSc. Biomedical Genetics

Category Credit Detail			
Sl.No.	Description	Credits	Maximum Credit
1	DC - Discipline Core	28	28
2	DE - Discipline Elective	21	21
3	PI - Projects and Internship	20	20
4	OE - Open Elective	6	6
5	SE - Skill Enhancement	5	5
Total Credits		80	

Discipline Core									
sl.no	Course Code	Course Title	Course Type	Version	L	T	P	J	Credits
1	PBIT507L	Biostatistics and Research Methodology	Theory Only	1.0	3	0	0	0	3.0
2	PBMG501L	Human Genetics	Theory Only	1.0	3	0	0	0	3.0
3	PBMG502L	Molecular Genetics	Theory Only	1.0	3	0	0	0	3.0
4	PBMG503L	Biochemical Genetics	Theory Only	1.0	2	0	0	0	2.0
5	PBMG503P	Molecular and Biochemical Genetics Lab	Lab Only	1.0	0	0	2	0	1.0
6	PBMG504L	Developmental Genetics	Theory Only	1.0	3	0	0	0	3.0
7	PBMG505L	Clinical Cytogenetics	Theory Only	1.0	2	0	0	0	2.0
8	PBMG505P	Clinical Cytogenetics Lab	Lab Only	1.0	0	0	2	0	1.0
9	PBMG506L	Cancer Genetics	Theory Only	1.0	3	0	0	0	3.0
10	PBMG507L	Human Immunology	Theory Only	1.0	3	0	0	0	3.0
11	PBMG508L	Genetic Engineering	Theory Only	1.0	3	0	0	0	3.0
12	PBMG508P	Genetic Engineering Lab	Lab Only	1.0	0	0	2	0	1.0

Discipline Elective									
sl.no	Course Code	Course Title	Course Type	Version	L	T	P	J	Credits
1	GNCL100L	M.Sc. Biomedical Genetics (Genetic Counselling)	Basket	1.0	0	0	0	0	12.0
2	PBIT506L	Bioinformatics	Theory Only	1.0	2	0	0	0	2.0
3	PBIT506P	Bioinformatics Lab	Lab Only	1.0	0	0	2	0	1.0
4	PBIT606L	Stem Cell Biology	Theory Only	1.0	3	0	0	0	3.0
5	PBIT608L	Forensic Science and Technology	Theory Only	1.0	3	0	0	0	3.0
6	PBMG601L	Human Anatomy and Physiology	Theory Only	1.0	3	0	0	0	3.0
7	PBMG602L	Advanced Analytical Techniques	Theory Only	1.0	3	0	0	0	3.0
8	PBMG603L	Biochemistry	Theory Only	1.0	3	0	0	0	3.0
9	PBMG604L	Reproductive Genetics	Theory Only	1.0	3	0	0	0	3.0
10	PBMG605L	Genomics and Precision Medicine	Theory Only	1.0	3	0	0	0	3.0
11	PBMG606L	Environmental Genetics	Theory Only	1.0	3	0	0	0	3.0
12	PBMG607L	Artificial Intelligence in Healthcare	Theory Only	1.0	3	0	0	0	3.0
13	PBMG608L	Epidemiology	Theory Only	1.0	3	0	0	0	3.0

Discipline Elective									
14	PBMG609L	Neurobiology	Theory Only	1.0	3	0	0	0	3.0
15	PBMG610L	Population Genetics	Theory Only	1.0	3	0	0	0	3.0
16	PBMG611L	Behavioral Genetics	Theory Only	1.0	3	0	0	0	3.0

Projects and Internship									
sl.no	Course Code	Course Title	Course Type	Version	L	T	P	J	Credits
1	PBMG698J	Internship I/ Dissertation I	Project	1.0	0	0	0	0	4.0
2	PBMG699J	Internship II/ Dissertation II	Project	1.0	0	0	0	0	12.0
3	PSET695J	Project Work	Project	1.0	0	0	0	0	4.0

Open Elective									
sl.no	Course Code	Course Title	Course Type	Version	L	T	P	J	Credits
1	CFOC179M	Introduction to Proteogenomics	Online Course	1.0	0	0	0	0	3.0
2	CFOC191M	Forests and their Management	Online Course	1.0	0	0	0	0	3.0
3	CFOC397M	Intellectual Property	Online Course	1.0	0	0	0	0	3.0
4	CFOC398M	English Language for Competitive Exams	Online Course	1.0	0	0	0	0	3.0
5	CFOC678M	Fundamentals of Ecology	Online Course	1.0	0	0	0	0	3.0
6	CFOC681M	Computational Genomics	Online Course	1.0	0	0	0	0	3.0
7	CFOC685M	Comprehensive Molecular Diagnostics and Advanced Gene Expression Analysis	Online Course	1.0	0	0	0	0	3.0

Skill Enhancement									
sl.no	Course Code	Course Title	Course Type	Version	L	T	P	J	Credits
1	PENG501P	Technical Report Writing	Lab Only	1.0	0	0	4	0	2.0
2	PSTS501P	Qualitative Skills Practice	Soft Skill	1.0	0	0	3	0	1.5
3	PSTS502P	Quantitative Skills Practice	Soft Skill	1.0	0	0	3	0	1.5