

## M.Sc. Genetics

Semester	Theory	Practical	Name of paper	Contact Hours / week (Credit) L- T- P (Credit)	
Semester 1	MScGEN 101		Biochemistry & Biophysics	3-0-0 (3)	
	MScGEN 102		Microbiology	3-0-0 (3)	
	MScGEN 103		Genetic Engineering	3-0-0 (3)	
	MScGEN104		Introductory mathematics and Biostatistics	3-0-0 (3)	
		MScGEN 191	Biochemistry and Analytical Techniques	0-0-8 (4)	
		MScGEN 192	Microbial Techniques	0-0-8 (4)	
		MScGEN 193	Genetic Engineering Lab	0-0-8 (4)	
Semester 2	MScGEN201		Immunology and Virology	3-0-0 (3)	
	MScGEN202		Transmission Genetics & Gene Expression	3-0-0 (3)	
	MScGEN203		Bioinformatics & Computer Application	3-0-0 (3)	
	MScGEN 204		Genomics & Proteomics	3-0-0 (3)	
		MScGEN 291	Immunology Lab	0-0-8 (4)	
		MScGEN292	Basic Cyto genetics Lab	0-0-8 (4)	
		MScGEN 293	Bioinformatics & Computer Application Lab	0-0-8 (4)	
	Semester 3	MScGEN301		Genetic Engineering in plant	3-0-0 (3)
		MScGEN302		Cell Developmental Biology	3-0-0 (3)
		MScGEN303		Human Molecular Genetics	3-0-0 (3)
MScGEN304			Life cycle of Model Organism	3-0-0 (3)	
		MScGEN391	Tissue Culture Techniques	0-0-8 (4)	
		MScGEN 392	Life Cycle of Model Organism & Genetic Toxicity Testing	0-0-8 (4)	
		MScGEN381	Summer Internship	(2+2)	
		MScGEN382	Seminar leading to project/ Project Proposal Presentation	(2)	
Semester 4	MScGEN 401		Bioethics & IPR	3-0-0 (3)	
	MScGEN402 (Elective)		Plant Genetics	3-0-0 (3)	
	MScGEN403 (Elective)		Animal Genetics	3-0-0 (3)	
	MScGEN404 (Elective)		Microbial Genetics	3-0-0 (3)	
	MScGEN405 (Elective)		Environmental Geno toxicity	3-0-0 (3)	
		MScGEN491 MScGEN481	Grand Viva Project	(4) (2+4)	