

**M.Sc., MICROBIAL GENE TECHNOLOGY**  
**(A Self financing course)**  
**Scheme of Examination and Syllabi under CBSC**  
**This will come into effect from 2018-2019**

**COURSE STRUCTURE**

Subject code	Subject Title	Core/ Elective	Hrs/ Week	Credits	Marks Internal	Exter nal	Total
<b>Semesters-I</b>							
MGT101C	General Microbiology	C	3	4	25	75	100
MGT102C	Microbial Biochemistry	C	3	4	25	75	100
MGT103C	Molecular Biology & Genetics	C	4	4	25	75	100
MGT104C	Lab in General Microbiology & Microbial Biochemistry	C	8	3	40	60	100
MGT105C	Lab in Molecular Biology & Genetics	C	8	3	40	60	100
	Elective	E	4	4	25	75	100
		SSS	3	2	25	75	100
<b>Semesters-II</b>							
MGT201C	r- DNA Technology	C	3	4	25	75	100
MGT202C	Environmental Microbiology	C	3	4	25	75	100
MGT203C	Food and Dairy Microbiology	C	3	4	25	75	100
MGT204C	Lab in r-DNA Technology	C	8	3	40	60	100
MGT205C	Lab in Environmental, Food & Dairy Microbiology	C	8	3	40	60	100
	Elective	E	3	4	25	75	100
		SSS	3	3	25	75	100
<b>Semesters-III</b>							
MGT301C	Molecular Diagnostics and Therapeutics	C	3	4	25	75	100
MGT302C	Bioinformatics and its applications	C	3	4	25	75	100
MGT303C	Clinical Microbiology and Immunology	C	3	4	25	75	100
MGT304C	Lab in Molecular Diagnostics, Therapeutics and Clinical Microbiology, Immunology and	C	8	4	40	60	100
MGT305C	Lab in Bioinformatics	C	8	4	40	60	100
	Elective	E	3	4	25	75	100
		SSS	3	2	25	75	100
<b>Semesters-IV</b>							
MGT401C	Research Methodology	C	3	3	25	75	100
MGT402P	Project Work and Viva-Voce	P	20	5	25	75	100

	Elective	E	4	4	25	75	100
		SSS	3	3	25	75	100
<b>TOTAL</b>			<b>120</b>	<b>86</b>	-	-	<b>2400</b>

**Core Subject: 64 Credit      Elective: 16 Credits      SSS: 10 Credits      Total: 86 Credits**

MGT1801E	Microbial Nanotechnology	4 Credits
MGT1802E	Microbial genomics	4 Credits
MGT1803E	Virology	4 Credits
MGT1804E	Developmental Biology	4 Credits
MGT1805E	Bioprocess Technology	4 Credits
MGT1806E	Ecology and Evolutionary Biology	4 Credits
MGT1807E	Cell Biology	4 Credits
MGT1808E	Proteomics	4 Credits

Elective  
Papers