

MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL
(Formerly West Bengal University of Technology)
Syllabus for M. Sc. In Genetics
(Effective for academic session 2019-20)
Curriculum Structure

Semester-I

Code	Course Title	Contact Hrs./Wk	Credit
A	Theory	L-T-P	
MSGN-101	Biochemistry	3-0-0	3
MSGN-102	Laboratory Techniques	3-0-0	3
MSGN-103	Cell and Molecular Biology	3-0-0	3
MSGN-104	Biostatistics	3-0-0	3
MSGN-105	Basic Genetics	3-0-0	3
B	Practical		
MSGN-191	Biochemistry & Analytical Techniques Lab	0-0-6	3
MSGN-192	Lab on Cytogenetics	0-0-6	3
MSGN-193	Data Analysis using Statistical Software	0-0-6	2
C			
MSGN-181	Seminar		1
Semester Total			24

Semester-II

Code	Course Title	Contact Hrs./wk	Credit
A	Theory	L-T-P	
MSGN-201	Evolutionary Biology and Population Genetics	3-0-0	3
MSGN-202	Clinical Genetics	3-0-0	3
MSGN-203	Immunology	3-0-0	3
MSGN-204	Genetic Engineering	3-0-0	3
MSGN-205	Applied Bioinformatics	3-0-0	3

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MSGN-206	Choice Based Courses (from MOOCS basket)		2
B	Practical		
MSGN-291	Genetic Engineering Lab	0-0-6	3
MSGN-292	Immunology Lab	0-0-6	3
C			
MSGN-281	Seminar		1
Semester Total			24

Semester-III

Code	Course Title	Contact Hrs./wk	Credit
A	Theory	L-T-P	
MSGN-301	Human Genetics and Genetic Counselling	3-0-0	3
MSGN-302	Developmental Biology	3-0-0	3
MSGN-303	Genomics & Proteomics	3-0-0	3
MSGN-304	IPR, Biosafety & Bioethics	3-0-0	3
MSGN-305	Choice Based course (From Elective Basket)	2-0-0	2
MSGN-306	Choice Based Course (From MOOCS Basket)	2-0-0	2
B	Practical		
MSGN-391	Lab on Applied Bioinformatics	0-0-6	3
MSGN-392	Lab on Molecular Genetics and Developmental Genetics	0-0-6	3
C			
MSGN-381	Project Proposal Presentation /seminar		2
Semester Total			24

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Semester-IV

Code	Course Title	Contact Hrs./wk	Credit
		L-T-P	
MSGN-481	Project Work	0-0-0	22
MSGN-482	Lab Visit/ industry visit		1
MSGN-483	Seminar on Journal Club		1
Semester Total			24