



MATS UNIVERSITY

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Master of Science - Biotechnology

M.Sc Biotechnology		SCHEME OF STUDY AND CURRICULUM MATRIX			
Semester I					
Code	Subject	Credit	University	Int. Marks	Total Marks
		1Cr=10 hrs	Exam Marks		
CORE COURSES					
MSLS/MSC(BT)/101	Cell and Molecular Biology	6	70	30	100
MSLS/MSC(BT)/102	General Microbiology	6	70	30	100
MSLS/MSC(BT)/103	Biochemistry	6	70	30	100
MSLS/MSC(BT)/104	Biostatistics & Instrumentation	6	70	30	100
CORE BRACKET COURSES					
MSLS/MSC(BT)/105	Management in Practice	3	35	15	50
LABORATORY					
MSLS/MSC(BT)/106	Cell and Molecular Biology	3	35	15	50
MSLS/MSC(BT)/107	General Microbiology	3	35	15	50
MSLS/MSC(BT)/108	Biochemistry	3	35	15	50
Value Adds (pre term)	Orientation Program (Yoga, Meditation, Bridge Course, OBL)				
	Communication Skills				
	Presentation Skills				
	Total	36	420	180	600
Semester II					
Code	Subject	Credit	Univ.	Int. Marks	Total Marks
		1Cr=10 hrs	Exam Marks		
CORE COURSES					
MSLS/MSC(BT)/201	Immunology	6	70	30	100
MSLS/MSC(BT)/202	Medical Biotechnology	6	70	30	100

MSLS/MS(BT)/203	Genetic Engineering	6	70	30	100
MSLS/MS(BT)/204	Computer Application & Bioinformatics	6	70	30	100
CORE BRACKET COURSES					
MSLS/MS(BT)/205	Entrepreneurship	3	35	15	50
LABORATORY					
MSLS/MS(BT)/206	Immunology & Medical Biotechnology	3	35	15	50
MSLS/MS(BT)/207	Computer Application & Bioinformatics	3	35	15	50
MSLS/MS(BT)/208	Genetic Engineering	3	35	15	50
Value Adds	Industrial Visit				
	Ethics in Biotechnology				
	Technical Writing & Report Presentation				
	Total	36	420	180	600

Semester III					
Code	Subject	Credit	Univ.	Int. Marks	Total Marks
		1Cr=10 hrs	Exam Marks		
CORE COURSES					
MSLS/MS(BT)/301	Plant Biotechnology	6	70	30	100
MSLS/MS(BT)/302	Industrial Biotechnology	6	70	30	100
MSLS/MS(BT)/303	Environmental Biotechnology	6	70	30	100
MSLS/MS(BT)/304	Animal Biotechnology	6	70	30	100
CORE BRACKET COURSES					
MSLS/MS(BT)/305	IPR, Bioethics & Research Methodology	3	35	15	50
LABORATORY					
MSLS/MS(BT)/306	Plant Biotechnology	3	35	15	50
MSLS/MS(BT)/307	Animal Biotechnology	3	35	15	50

MSLS/MS(BT)/308	Industrial and Environ Biotechnology	3	35	15	50
Value Adds	Personality Development (GD, PI & Leadership Skills)				
	Career Orientation & Development				
	Total	36	420	180	600
Semester IV					
Code	Subject	Credit	Univ.	Int. Marks	Total Marks
		1Cr=10 hrs	Exam Marks		
	Dissertation	36			
MSLS/MS(BT)/401	Seminar (Based on Research)		100	-	100
MSLS/MS(BT)/402	Dissertation		400	-	400
MSLS/MS(BT)/403	Viva Voce (including Feed back from the institution where research carried wherever necessary)		100	-	100
	Total	36	600	-	600
	GRAND TOTAL	144	1860	540	2400