



MATS UNIVERSITY

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Master of Science - Bioinformatics

Semester I					
Code	Subject	Credit	Univ.	Int. Marks	Total Marks
		1Cr= 10 hrs	Exam Marks		
CORE COURSES					
MSLS/MS(BI)/101	Biochemistry	6	70	30	100
MSLS/MS(BI)/102	Statistics	6	70	30	100
MSLS/MS(BI)/103	Introduction to database system	6	70	30	100
MSLS/MS(BI)/104	Basics in Computer	6	70	30	100
CORE BRACKET COURSES					
MSLS/MS(BI)/105	Genetics & Immunology	3	35	15	50
LABORATORY					
MSLS/MS(BI)/106	Statistics	3	35	15	50
MSLS/MS(BI)/107	Introduction to database system	3	35	15	50
MSLS/MS(BI)/108	Basics in Computer	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/MS(BI)/201	Cell & Molecular Biology	6	70	30	100
MSLS/MS(BI)/202	Biodiversity Informatics	6	70	30	100
MSLS/MS(BI)/203	Programming in object oriented	6	70	30	100

	languages				
MSLS/MS(BI)/204	Chemo informatics	6	70	30	100
CORE BRACKET COURSES					
MSLS/MS(BI)/205	Micro array Analysis	3	35	15	50
LABORATORY					
MSLS/MS(BI)/206	Biodiversity Informatics	3	35	15	50
MSLS/MS(BI)/207	Programming in object oriented languages	3	35	15	50
MSLS/MS(BI)/208	Chemo informatics	3	35	15	50
Value Adds	Industrial Visit				
	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(BI)/301	Genomics & Proteomics	6	70	30	100
MSLS/MS(BI)/302	Bio-sequencing analysis & data-mining	6	70	30	100
MSLS/MS(BI)/303	Computer graphics & networking data security	6	70	30	100
MSLS/MS(BI)/304	Programming in PERL, HTML & XML	6	70	30	100
CORE BRACKET COURSES					
MSLS/MS(BI)/305	Entrepreneurship	3	35	15	50
LABORATORY					
MSLS/MS(BI)/306	Bio-sequencing analysis & data-mining	3	35	15	50
MSLS/MS(BI)/307	Computer graphics & networking data security	3	35	15	50
MSLS/MS(BI)/308	Programming in PERL, HTML & XML	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(BI)/401	Seminar (Based on Research)		100	-	100
MSLS/MS(BI)/402	Dissertation		400	-	400
MSLS/MS(BI)/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