

Amrita Center For Nanosciences and Molecular Medicine

**Program in the
Bachelor of Science (B.Sc.)
Molecular Medicine**

2020

Amrita Vishwa Vidyapeetham

B.Sc-Molecular Medicine - Curriculum

Course Code	Course Title	L T P	Cr	ES	Course Code	Course Title	L T P	Cr	ES
	SEMESTER 1					SEMESTER 2			
20ENG102	English I	3 0 0	3		20ENG112	English II	3 0 0	3	
20CHE102	Chemistry-1	3 0 0	3		20BIC111	Metabolism of Carbohydrates & Lipids	3 0 0	3	
20MAT102	Biostatistics	3 0 0	3		20MMD111	Cell biology 2	2 0 0	2	
20BIC102	Bio Physics and Bio Energetics	3 0 0	3		20CHE111	Chemistry-2	3 0 0	3	
20MMD102	Cell biology 1	2 0 0	2		20MMD112	Immunology	3 0 0	3	
20MMD101	Biochemistry-1	2 0 0	2		20BIC184	Biochemistry lab-2	0 0 6	2	
20CSA103	Computational Skills	2 0 0	2		20MMD184	Cell biology Practicals	0 0 6	2	
20BIC181	BioPhysics Practicals	0 0 6	2		20MMD182	Chemistry lab-2	0 0 6	2	
20MMD181	Chemistry lab-1	0 0 6	2		20MMD183	Immunology Practicals	0 0 6	2	
20CSA185	Computational Skills Practicals	0 0 3	1						
	Total	23				Total	22		
	SEMESTER 3					SEMESTER 4			
20BIC201	Protein structure and function	3 0 0	3		20BIC211	Bioinformatics	3 0 0	3	
20BIC203	Biotechniques	3 0 0	3		20MMD211	MolecularBiology and GeneticEngineering	3 0 0	3	
20MMD201	Microbiology	4 0 0	4		20MMD212	Genetics	3 0 0	3	
20MMD202	Developmental biology	2 0 0	2		20BIC212	Biosafety and bioethics	2 0 0	2	
20BIC281	Biotechniques Practicals	0 0 6	2		20MMD213	Proteome and Proteomics	2 0 0	2	
20MMD281	Microbiology Practicals	0 0 9	3		20BIC282	Bioinformatics Practicals	0 0 6	2	
20MMD282	Developmental Biology Lab	0 0 6	2		20MMD283	Molecular biology Practicals	0 0 6	2	
20IPR201	IPR	1 0 0	1		20CUL201	Cultural education	1 0 0	1	
	Total	20				Total	18		
	SEMESTER 5					SEMESTER 6			
20MMD301	Stem cell Biology	2 0 0	2		20BIC311	Antimicrobial agents	2 0 0	2	
20MMD305	Regenerative medicine	3 0 0	3		20MMD312	Microbial diseases and vaccine technology	3 0 0	3	
20MMD302	Biopolymers and its medical applications	3 0 0	3		20MMD311	Cancer Biology	2 0 0	2	
20BIC303	Molecular methods	3 0 0	3		20MMD313	Nanosciences in Biology	3 0 0	3	
20BIC301	Human Physiology and anatomy	3 0 0	3		20RM301	Research Methodology	2 0 0	2	
20MMD304	Principles of Pathology	0 0 6	2		20MMD399	Project	9	9	
20BIC381	Cell culture lab	0 0 6	2						
20MMD381	Molecular methods lab	0 0 6	2			Total	21		
	Total	20							

Total Credits 124