Department of Bioscience & Bioengineering B.Tech. Program in Biotechnology

Cat.	Course	L-T-P	Credits	Cat.	Course	L-T-P	Credits
				II Semester			
Н	BB111 Biology for Engineers	3-0-3	4	Н	ME122 Engineering Mechanics	3-1-3	5
Н	CS111 Computer Programming	3-1-3	5	Н	ME121 System Exploration-workshop	3-0-3	4
Н	ME111 System Exploration Drawing	3-0-3	4	Н	EE121 Basic Electronic Engineering	3-1-3	5
В	MA111 Linear Algebra and Calculus	4-1-0	5	В	MA121 Complex Analysis and Differential Equations	4-1-0	5
В	PH111 Electromagnetism and Optics	3-1-3	5	С	BB121 Cell & Molecular Biology	3-0-0	3
L	HS111 English Language and Communication Skills	3-0-0	3	L	HS121 Law : Constitution, Responsibilities and Rights	3-0-0	3
S	PE111 Physical Exercise I		0	S	PE121 Physical Exercise II		0
	Total		26		Total	31	25
III Semester				IV Semester			
Н	EE211 Basic Electrical Engineering	3-1-3	5	В	MA221 Probability Statistics and Random Processes	4-1-0	5
В	CY211 Chemistry	3-0-3	4	С	BB221 Biochemistry	3-0-3	4
С	EE213 Signals and Systems	3-1-0	4	С	BB222 Genetics & Recombinant DNA Technology	3-0-3	4
С	BB211 Microbiology	3-0-3	4	С	BB223 Bioprocess Engineering & Fermentation Technology	3-1-3	5
С	CS121 Data structures & Algorithms	3-1-3	5	Р	BB299 B.Tech. Project	0-0-8	2
L	HS211 Principles of Economics	3-0-0	3	L	HS221 Principles of Management	3-0-0	3
Total 33 25				Total 35 23			23
V Semester				VI Semester			
С	BB311 Animal Biotechnology	3-0-3	4	С	BB321 Bioengineering	3-0-3	4
С	BB312 Bioinformatics & Computational Biology	3-0-3	4	С	BB322 Environmental Biotechnology and Bioremediation	3-0-0	3
С	BB313 Food and Agriculture technology	3-0-3	4	С	BB323 Biomedical technology	3-0-3	4
С	BB314 Molecular Biophysics	3-0-3	4	С	CS323 Artificial Intelligence	3-0-0	3
Р	BB398 B. Tech. Project	0-0-8	2	Р	BB399 B. Tech. Project	0-0-9	3
L	HS311 Principles of Psychology	3-0-0	3	L	HS321 Art, Culture and Heritage	3-0-0	3
	Total	35	21		Total	30	20
VII Semester			VII	VIII Semester			
Е	Elective	3-0-0	3	Е	Elective	3-0-0	3
Е	Elective	3-0-0	3	Е	Elective	3-0-0	3
Е	Elective	3-0-0	3	Е	Elective	3-0-0	3
Р		0-0-24		Р	BB499 B. Tech. Project	0-0-24	8
L	HS411 Basics of Leadership	3-0-0	20	L	HS421 Role of Technology in Development	3-0-0	3
	Total	36		Total		20	
			1	Grand Total	270	180	