



BRAINWARE UNIVERSITY
SCHOOL OF BIOTECHNOLOGY & BIOSCIENCES
DEPARTMENT OF BIOTECHNOLOGY
PROGRAMME CURRICULUM: BACHELOR OF SCIENCE HONOURS IN BIOTECHNOLOGY

SEMESTER – I

Course Code	Course Name	L-T-P	Credits	Total Marks
HU101	Communicative English	4-0-0	4	100
BBT101	General Microbiology	4-0-0	4	100
BBT102	Genetics	4-0-0	4	100
BBT191	General Microbiology Practical Lab.	0-0-4	2	100
BBT192	Genetics Practical Lab.	0-0-4	2	100
BBT103	Generic Elective Subject: Zoology1: A. Developmental Biology	4-0-0	4	100
BBT193	Generic Elective Subject: Zoology1: A. Developmental Biology Practical Lab.	0-0-4	2	100
	Total		22	700

SEMESTER – II

Course Code	Course Name	L-T-P	Credits	Total Marks
BBT201	Environmental Science and Disaster Management	4-0-0	4	100
BBT202	Cell Biology	4-0-0	4	100
BBT203	Plant Physiology & Biotechnology	4-0-0	4	100
BBT204	Generic Elective Subject: Zoology2: A. Animal Biotechnology	4-0-0	4	100
BBT291	Cell Biology Practical Lab.	0-0-4	2	100
BBT292	Plant Physiology & Biotechnology Practical Lab.	0-0-4	2	100
BBT294	Generic Elective Subject: Zoology2: A. Animal Biotechnology Practical Lab.	0-0-4	2	100
	Total		22	700

SEMESTER – III

Course Code	Course Name	L-T-P	Credits	Total Marks
BBT301	Mammalian Physiology	4-0-0	4	100
BBT302	Biochemistry & Metabolism	4-0-0	4	100
BBT303	General Chemistry	4-0-0	4	100
BBT391	Mammalian Physiology Lab	0-0-4	2	100
BBT392	Biochemistry & Metabolism Lab	0-0-4	2	100



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BBT393	General Chemistry Lab	0-0-4	2	100
BBT304	Generic Elective Subject3: A. Biotechnology and Human Welfare B. Bioethics & Biosafety	4-0-0	4	100
BBT394	Generic Elective Subject3: A. Biotechnology and Human Welfare Lab	0-0-4	2	100
BBT305	Skill Enhancement Course 1: A. Molecular Diagnostics B. Enzymology	2-0-0	2	100
	Total		26	900

SEMESTER – IV

Course Code	Course Name	L-T-P	Credits	Total Marks
BBT401	Molecular Biology	4-0-0	4	100
BBT402	Immunology	4-0-0	4	100
BBT403	Advanced Chemistry	4-0-0	4	100
BBT491	Molecular Biology Lab	0-0-4	2	100
BBT492	Immunology Lab	0-0-4	2	100
BBT493	Advanced Chemistry Lab	0-0-4	2	100
BBT404	Generic Elective Subject 4: A. Entrepreneurship Development	4-0-0	4	100
BBT494	Generic Elective Subject 4: Entrepreneurship Development Practical Lab/ Project Work	0-0-4	2	100
BBT405	Skill Enhancement Course 2: A. Industrial Fermentations	2-0-0	2	100
	Total		26	900

SEMESTER – V

Course Code	Course Name	L-T-P	Credits	Total Marks
BBT501	Bioprocess Technology	4-0-0	4	100
BBT502	Recombinant DNA Technology	4-0-0	4	100
BBT503	<i>Discipline Centric Subjects 1:</i> A1. Animal Diversity I B1. Plant Diversity I C1. Computer Application	4-0-0	4	100
BBT504	<i>Discipline Centric Subjects 2:</i> A2. Animal Diversity II B2. Plant Diversity II	4-0-0	4	100



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	C2. Bio-mathematics			
BBT591	Bioprocess Technology Lab	0-0-2	2	100
BBT592	Recombinant DNA Technology Lab	0-0-2	2	100
BBT593	<i>Discipline Centric Subjects 1:</i> A1. Animal Diversity I Lab B1. Plant Diversity I Lab C1. Computer Application Lab	0-0-2	2	100
BBT594	<i>Discipline Centric Subjects 2:</i> A2. Animal Diversity II Lab B2. Plant Diversity II Lab C2. Bio-mathematics Lab	0-0-2	2	100
	Total		24	800

SEMESTER – VI

Course Code	Course Name	L-T-P	Credits	Total Marks
BBT601	Bio Analytical Tools	4-0-0	4	100
BBT602	Genomics and Proteomics	4-0-0	4	100
BBT603	Discipline Centric Subjects 3: A1. Environmental Biotechnology B1. Plant Biotechnology C1. Biostatistics	4-0-0	4	100
BBT604	Discipline Centric Subjects 4: A2. Bioinformatics B2. Medical Microbiology C2. Microbial Physiology	4-0-0	4	100
BBT691	Bio Analytical Tools Lab	0-0-4	2	100
BBT692	Genomics and Proteomics Lab	0-0-4	2	100
BBT693	Discipline Centric Subjects 3: A1. Environmental Biotechnology Lab B1. Plant Biotechnology Lab C1. Biostatistics Lab	0-0-4	2	100
BBT694	Discipline Centric Subjects 4: A2. Bioinformatics Lab B2. Medical Microbiology Lab C2. Microbial Physiology Lab	0-0-4	2	100
	Total		24	800

Total Credits = 144; Total Marks = 4800