



ADHIYAMAAN COLLEGE OF ENGINEERING

(Autonomous)

Affiliated to Anna University – Chennai & Approved by AICTE – New Delhi.

Accredited by NAAC & NBA - UGC, New Delhi

1.1.2 - Number of Programmes where syllabus revision was carried out during the last five years

B. Tech- BIO TECHNOLOGY

R-2015 vs R-2018

Sl.No	Course Code	Course Name	% of Change	Weightage
1	X18MCT01	Indian Constitution	100	1
2	118ENT01	Technical English	50	0.5
3	118MAT02	Engineering Mathematics-I	20	0.2
4	118PHT03	Engineering Physics	10	0
5	118CYT04	Engineering Chemistry	20	0.2
6	118CYP07	Engineering Chemistry Laboratory	20	0.2
7	218ENT01	Communicative English	90	0.9
8	218MAT02	Engineering Mathematics-II	20	0.2
9	218GET03	Environmental Science and Engineering	15	0.15
10	218PPT05	Problem Solving and Python Programming	100	1
11	218BSE01	Material Science	100	1
12	218PPP08	Problem Solving and Python Programming Lab	100	1
13	318MAT01	Engineering Mathematics III	20	0.2
14	318BTT02	Biochemistry	20	0.2
15	318BTT03	Cell Biology	20	0.2
16	318BTT04	Microbiology	20	0.2
17	318BTT05	Instrumental Methods of Analysis	30	0.3
18	318BTT06	Basic Industrial Biotechnology	20	0.2
19	318BTP07	Biochemistry Laboratory	20	0.2
20	318BTP08	Cell Biology Laboratory	20	0.2

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21	318BTP09	Microbiology Laboratory	20	0.2
23	418PST01	Probability and Statistics	10	0.1
24	418BTT02	Molecular Biology	10	0.1
25	418BTT03	Stoichiometric and Process Calculations	10	0.1
26	418BTT04	Fundamentals of Unit Operations	30	0.3
27	418BTT05	Enzyme Technology	30	0.3
28	418BTT06	Environmental Biotechnology	10	0.1
29	418BTP07	Molecular Biology Laboratory	30	0.3
30	418BTP08	Instrumental methods of Analysis Lab	20	0.2
31	418BTP09	Enzyme Technology Laboratory	20	0.2
32	518BTT01	Bioinformatics	20	0.2
33	518BTT02	Genetic Engineering	20	0.2
34	518BTT03	Bioprocess Engineering, I	20	0.2
35	518BTT04	Fundamentals of Mass Transfer	20	0.2
36	518BTT05	Chemical Thermodynamics & Bio thermodynamics	20	0.2
37	X18GCT01	Gender, Culture and Development	100	1
38	518BTP07	Genetic Engineering Lab	20	0.2
39	518BTP08	Bioprocess Engineering Lab I	20	0.2
40	518BTP09	Chemical Engineering Laboratory for Biotechnologists	40	0.4
41	618BTT01	Protein Engineering	20	0.2
42	618BTT02	Chemical Reaction Engineering	20	0.2
43	618BTT03	Bioprocess Engineering – II	20	0.2
44	618BTT04	Health and Pharmaceutical Biotechnology	20	0.2
45	618BTT05	Immunology	20	0.2

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47	618BTP07	Bioprocess Engineering Lab II	20	0.2
48	618BTP08	Health and Pharmaceutical Biotechnology Lab	100	1
49	618BTP09	Immunology Lab	20	0.2
50	618BTP10	Analytical Techniques in Biotechnology Lab	20	0.2
51	718BTT01	Downstream Processing	10	0.1
52	718BTT02	Plant Biotechnology	20	0.2
53	718BTT03	Animal Biotechnology	30	0.3
54	718BTT04	Genomics and Proteomics	30	0.3
55	718BTP07	Downstream Processing Lab	10	0.1
56	718BTP08	Plant Biotechnology Lab	10	0.1
57	718BTP09	Entrepreneurship Development Lab	100	1
58	718BTE01	Clinical Research and Database Management	20	0.2
59	718BTE02	Transport Phenomena In bioprocess	20	0.2
60	718BTE03	Biosimilar Technology	100	1
61	718BTE04	Rational Drug Discovery	100	1
62	718BTE05	Bioterrorism and National Security	100	1
63	718BTE06	Fundamental of Nanotechnology	100	1
64	718BTE07	Cancer Biology	40	0.4
65	718BTE08	Disaster Management	40	0.4
66	718BTE09	Process Equipment and Plant Design	100	1
67	718BTE10	Principles of Food Processing	20	0.2
68	818BTT01	Bioethics, IPR and Entrepreneurship	40	0.4
69	818BTE01	Tissue Engineering	40	0.4
70	818BTE02	Telemedicine	100	1
71	818BTE03	Molecular Pathogenesis	40	0.4

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Sl.No	Course Code	Course Name	% of Change	Weightage
72	818BTE04	Industrial Safety	100	1
73	818BTE05	Stem Cells in Healthcare	30	0.3
74	818BTE06	Total Quality Management	100	1
75	818BTE07	Agricultural Biotechnology	30	0.3
76	818BTE08	Computational Biology	30	0.3
77	818BTE09	Medical Coding	30	0.3
78	818BTE10	Biosafety	100	1
Total Weightage				30.25
(Total weightage of R2015 vs R2018/ No. of courses in R2018) *100 = 30.25 / 92*100 = 32.88				
Total Change% = 32.88%				

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