

PROGRAM FOR BACHELOR OF ENGINEERING DEGREE in Biological Engineering

No	CODE	SUBJECTS	CREDITS
1.	MI1110	Analytics I	4(3-2-0-8)
2.	MI1120	Analytics II	3(2-2-0-6)
3.	MI1130	Analytics III	3(2-2-0-6)
4.	MI1140	Algebra	4(3-2-0-8)
5.	PH1110	Physics I	3(2-1-1-6)
6.	PH1120	Physics II	3(2-1-1-6)
7.	EM1010	General management	2(2-0-0-4)
8.	IT1110	General informatics	4(3-1-1-8)
9.	CH3223	Organic chemistry	3(2-1-1-6)
10.	CH3080	Physical chemistry	3(2-1-2-6)
11.	CH3306	Analytical chemistry	3(2-1-1-6)
12.	EE2012	Electrotechniques	2(2-1-0-4)
13.	ME2015	Descriptive geometry	3(3-1-0-6)
14.	BF2112	Introduction to biotechnology	2(2-0-1-4)
15.	CH3402	Mechanical process and equipments	3(2-1-1-6)
16.	CH3431	Mass and heat transfer process and equipments	4(3-1-1-8)
17.	BF3121	Process and equipments in biotechnology	2(2-0-0-4)
18.	BF3125	Techniques for mesuaring and Control of technological processes	2(2-0-1-4)
19.	BF3124	Quality product management in biotechnology	2(2-1-0-4)
20.	BF2110	Biochemistry	4 (4-0-0-8)
21.	BF2111	Experiments in biochemistry	2 (0-0-4-4)

22.	BF3111	Microbiology	3 (3-0-0-6)
23.	BF3112	Experiments in microbiology	2 (0-0-4-4)
24.	BF3113	Cell biology and immunology	4 (3-1-1-8)
25.	BF3114	Environmental ecology	3(3-0-0-6)
26.	BF3115	Genetics and molecular biology	3(2-2-0-6)
27.	BF3116	Genetic engineering	3 (2-0-2-6)
28.	BF3123	Bioinformatics	2(1-0-2-4)
29.	BF3117	Analytical methods in biotechnology	2 (2-0-1-4)
30.	CH3441	Project of processing and equipments	1 (0-2-0-2)
31.	BF3122	Project of specialization	2 (0-4-0-4)
32.	BF4181	Technical practice	2 CREDITS
33.	BF4191	Final thesis	6 CREDITS
		Selective subjects (14 / 25CRE)	
34.	BF4151	Biological techniques for Waste treatment	3(3-1-0-6)
35.	BF4161	Practical work in Biological techniques for Waste treatment	2(0-0-4-4)
36.	BF4152	Microbial technology	3(3-0-0-6)
37.	BF4162	Practical work in Microbial technology	2(0-0-4-4)
38.	BF4153	Animal cell technology	2(2-0-0-4)
39.	BF4163	Practical work in DNA recombinant technology	2(0-0-4-4)
40.	BF4154	Enzyme technology	3(3-0-0-6)
41.	BF4164	Practical work in Enzyme technology	2(0-0-4-4)
42.	BF4155	Techniques for producing Plant bioactive compounds	2 (2-1-0-4)
43.	BF4165	Practical work in Techniques for producing Plant bioactive compounds	2(0-0-4-4)
44.		Selective 8 CREDITS from program	

		offered in HUST	
		Total	132 CREDIT