

Bachelor Training Program
Faculty of Biotechnology - VNUA

No	Code	Subject	Credits
1	CN01007	Introduction to animal breeding	2
2	CP02005	General biochemistry	3
3	KN01001	Communication Skills	2
4	KN01002	Leadership Skills	2
5	KN01003	Self Management Skills	2
6	KN01004	Job Search Skills	2
7	KN01005	Teamwork Skills	2
8	KN01006	Intergrated Skills	2
9	GT01001	General physical education	1
10	GT01014	Dance Sport	1
11	GT01015	Swimming	1
12	GT01017	Athletics	1
13	GT01018	Aerobic exercises	1
14	GT01019	Football	1
15	GT01020	Volleyball	1
16	GT01021	Basketball	1
17	GT01022	Badminton	1
18	GT01023	Chess	1
19	KQ03111	Agribusiness Management	2
20	KT02003	Principles of Economics	3
21	ML01001	The basic principles of Marxism-Leninism 1	2
22	ML01002	The basic principles of Marxism-Leninism 2	3
23	ML01005	Ho Chi Minh Ideology	2
24	ML01009	Introduction to laws	2
25	MT01001	Introduction to Chemistry 1	2
26	MT01002	Organic Chemistry	2
27	MT01004	Analytical chemistry	2
28	MT02038	Environment and Human	2
29	NH02001	Botany	3
30	NH02003	Plant physiology	3
31	NH02005	Experimental Methods	2
32	NH02037	Introduction to Insects	2
33	NH02038	General Plant Pathology	2
34	NH03046	Principles and methods of plant breeding	2
35	QS01001	National Defense Education 1	2
36	QS01002	National Defense Education 2	2
37	QS01003	National Defense Education 3	1
38	RQ 02001	Principle of Crop Production	2
39	SH01001	General Biology	2
40	SH01002	General micobiology	2
41	SH02002	Biology of Human and Animal	3
42	SH02003	Cell Biology	2
43	SH02004	General Genetics	3
44	SH01005	Molecular Biology 1	2
45	SH02006	Practicing molecular biology 1	1
46	SH02008	Microbial ecology	2
47	SH02009	Evolution and biodiversity	3
48	SH02011	Fudamental immunology	2
49	SH03005	Bioinformatic	3

50	SH03006	Animal Cell Technology	3
51	SH03007	Animal Cell Technology Laboratory	1
52	SH03008	Genetic engineering – principles and applications	3
53	SH03009	Genetic engineering lab	1
54	SH03010	Protein – Enzyme technology	3
55	SH03011	Protein – enzyme Technology Lab	1
56	SH03012	Microbial biotechnology	3
57	SH03013	Microbial biotechnology Lab	1
58	SH03014	Plant cell and tissue culture technology	3
59	SH03015	Plant cell and tissue culture techniques lab	1
60	SH03023	Intellectual Property in Biotechnology	2
61	SH03050	Stem Cell Technology	2
62	SH03051	Biotechnology in plant breeding	3
63	SH03052	Biotechnology in animal breeding	2
64	SH03053	Environmental biotechnology	2
65	SH03054	Biosafety	2
66	SH03055	Biotechnology of edible and medicinal mushroom	3
67	SH03056	Seminar	1
68	SH03057	Current topics in Biotechnology	2
69	SH03058/SH E03058	High-tech in Agriculture	2
70	SH03059	Nanobiotechnology–Principles and applications	2
71	SH03060	Molecular Diagnostics and Gene Therapy	2
72	SH03061	Virology	2
73	SH03063	Natural Compounds	2
74	SH03064	Animal Developmental Biology	2
75	SH03065	Plant developmental biology	2
76	SH03068	Practice of Biotechnology in plant breeding	1
77	SH03001	Academic English	2
78	SH04001	Professional Internship 1	5
79	SH04002	Professional Internship 2	8
80	SH04999	Graduation thesis	10
81	SN00010	An Introduction to CEFR–based Tests	1
82	SN00011	English 0	2
83	SN01032	English 1	3
84	SNE01033	English 2	3
85	TH01009	Introduction to Informatics	2
86	CNE01007	Introduction to Husbandry	2
87	CPE02005	General Biochemistry	2
88	KQE03111	Agribusiness Management	2
89	KTE02003	The principles of Economics	3
90	KN01001	Communication Skills	2
91	KN01002	Leadership Skills	2
92	KN01003	Self Management Skills	2
93	KN01004	Job Search Skills	2
94	KN01005	Teamwork Skills	2
95	KN01006	Integrated Skills	2
96	GT01001	General physical education	1
97	GT01014	Dancing	1
98	GT01015	Swimming	1
99	GT01017	Athletics	1
100	GT01018	Aerobic exercises	1
101	GT01019	Football	1

102	GT01020	Volleyball	1
103	GT01021	Basketball	1
104	GT01022	Badminton	1
105	GT01023	Chess	1
106	MLE01001	The basic principles of Marxism-Leninism 1	2
107	MLE01002	The basic principles of Marxism-Leninism 2	3
108	MLE01005	Ho Chi Minh Ideology	2
109	MLE1009	Introduction to Laws	2
110	MTE01006	General chemistry 1	3
111	MTE01007	Organic Chemistry	2
112	NHE02003	Environment and Human	3
113	NHE02001	Botany	3
114	NHE02003	Plant physiology	3
115	NHE02005	Experimental Methods	2
116	NHE02037	General Entomology 1	2
117	NHE02038	General Plant Pathology	2
118	NHE03046	Principle and methods of plant breeding	3
119	SHE01001	General Biology	2
120	SHE01002	General Microbiology	2
121	SHE01004	General Genetics	3
122	SHE01005	Molecular Biology I	2
123	SHE02002	Biology of Human and Animal	3
124	SHE02003	Cell biology	2
125	SHE02004	General Genetics	3
126	SHE02005	Molecular Biology I	2
127	SHE02006	Molecular Biology I lab	1
128	SHE02008	Microbial Ecology	2
129	SHE02009	Evolution and biodiversity	3
130	SHE02010	Fundamental Immunology	2
131	SHE03001	English for biotechnology	4
132	SHE03002	Evolution and biodiversity	3
133	SHE03003	Fundamental Immunology	2
134	SHE03004	Molecular biology II	3
135	SHE03005	Applied bioinformatic	3
136	SHE03006	Animal Cell Technology	3
137	SHE03007	Animal Cell Technology Laboratory	1
138	SHE03008	Genetic Engineering – principles and applications	3
139	SHE03009	Genetic engineering lab	1
140	SHE03010	Protein – Enzyme technology	2
141	SHE03011	Protein – Enzyme technology lab	1
142	SHE03012	Microbial biotechnology	3
143	SHE03013	Microbial Biotechnology Lab	1
144	SHE03014	Plant cell and tissue culture technology	3
145	SHE03015	Plant cell and tissue culture techniques lab	1
146	SHE03022	Nanobiotechnology – principles and applications	2
147	SHE03050	Stem Cell Technology	2
148	SHE03051	Biotechnology in plant breeding	2
149	SHE03052	Biotechnology in Animal Breeding	2
150	SHE03053	Environmental Biotechnology	2
151	SHE3054	Biosafety	2
152	SH03055	Biotechnology of edible and medicinal mushrooms	3
153	SHE03056	Seminar	1
154	SHE03057	Current topics in biotechnology	2

155	SHE03058	High-tech in Agriculture	2
156	SHE03059	Nanobiotechnology – principles and applications	02 TC: 02-0-04
157	SHE03060	Molecular Diagnostics and Gene Therapy	2
158	SHE03061	Virology	2
159	SHE03062	Intellectual Property in Biotechnology	2
160	SHE03063	Natural secondary compounds	2
161	SHE03064	Development Biology Animal	2
162	SHE03065	Plant developmental biology	2
163	SHE03066	Principle of crop production	2
164	SHE03068	Practice of Biotechnology in plant breeding	1
165	SHE04001	Professional Internship 1	5
166	SHE04002	Professional Internship 2	8
167	SHE04999	Graduation thesis	10
168	SNE01010	English Listening and Speaking 1	9
169	SNE01011	Reading & writing 1	8
170	SNE01012	English Listening and Speaking 2	7
171	THE01009	Introduction to Informatics	2
172	THE01007	Probability and Statistics	3
173	CP02005	General biochemistry	2
174	KT02003	Micro and macroeconomic principles	2
175	ML01001	The basic principles of Marxism-Leninism 1	2
176	ML01002	The basic principles of Marxism-Leninism 2	3
177	ML01005	Ho Chi Minh Ideology	2
178	ML01007	Introduction to Sociology 1	2
179	Hóa hữu cơ	Organic Chemistry	2
180	MT01004	Analytical Chemistry	2
181	NH02005	Experimental Methods	2
182	SN00010	An Introduction to CEFR-based Tests	1
183	SN00011	English 0	2
184	SN01032	English 1	3
185	SNE01033	English 2	3
186	PCN03507	Principle of Animal Production	2
187	PKQ03111	Agribusiness Management	2
188	PKQ03201	Management of household and household farm economy	3
189	PKQ03350	Marketing Principles and Agricultural Products Market System	2
190	PKQ03366	Planning and Analysis of Business Investment Project	2
191	PNH02003	Plant physiology	3
192	PSN01020	Working in groups	2
193	RQ02001: Nguyên lý trồng trọt	Principle of Crop production	2
194	PTH01001	Probability and Statistics	3
195	TH01009	Introduction to informatics	2
196	PSH01001	General Biology	2
197	PSH01002	Biology of microorganisms	2
198	PSH01004	General mycology	2
199	PSH03007	Introduction to Biotechnology of edible and medicinal mushrooms	1
200	PSH01007	Report and proposal writing	1
201	PSH02002	Biology of Human and Animal	2
202	PSH02003	Cell Biology	2
203	PSH02004	General Genetics	3

204	PSH02005	Molecular biology	2
205	PSH02006	Bioinformatics	2
206	PSH02007	Biology of edible and medicinal mushrooms	2
207	PSH03008	Genetic engineering– principles and applications	3
208	PSH03009	Genetic engineering lab	1
209	PSH02010	Protein–Enzyme Technology	3
210	PSH02011	Protein–Enzyme Technology Laboratory	1
211	PSH03001	Principles Technology of mushroom breeding	3
212	PSH03002	Technology of mushroom breeding Lab	1
213	PSH03003	Technology of edible and medicinal mushrooms	3
214	PSH03004	Technology of edible mushroom cultivation Lab	1
215	PSH03005	Technology of medicinal mushroom cultivation Lab	1
216	PSH03006	Post harvest handling for edible and medicinal mushrooms products	2
217	PSH03008	Field survey	1
218	PSH03009	Professional internship 1	2
219	PSH03010	Professional internship 2	3
220	PSH03011	Project	3
221	PSH03012	Microbial Biotechnology	2
222	PSH03013	Microbial Biotechnology Laboratory	1
223	PSH03014	Insect and disease control for edible and medicinal mushrooms	2
224	PSH03015	Treatment technology By–product in mushroom production	2
225	PSH03016	Mushroom production equipment	1
226	PSH03017	English for Biotechnology	2
227	PSH03018	Environmental biotechnology	2
228	PSH03019	Hi–tech in Agriculture	2
229	PSH03020	Biosafety	2
230	PSH03021	Fundamental Immunology	2
231	PSH03022	Nanobiotechnology–Principles and applications	2
232	PSH03023	Intellectual Property in Biotechnology	2
233	PSH03024	Natural secondary compounds	2
234	PSH03025	Evolution and biodiversity	2
235	PSH03026	Mushroom and Functional foods	2
236	PSH03027	Microbial applications in mushroom production	2
237	PSH03028	Production of Mushroom Biomass in Bioreactor	2
238	PSH03029	Mushroom Toxicology	2
239	PSH03030	Plant cell and tissue culture technology	3
240	PSH03031	Animal Cell Technology	3
241	PSH04999	Graduation thesis	10