

**Bachelor Training Program
Faculty of Engineering**

No	Code	Subjects	Credits
1	CD02104	Theoretical mechanis I	3
2	CD02105	Applied Mechanics	3
3	CD02106	Descriptive Geometry and Engineering Drawing	3
4	CD02108	Theoretical mechanics 2	2
5	CD02158	Mechanism Principles	2
6	CD02115	Mechanism Principle Projects	1
7	CD02116	Mechanism Principles	3
8	CD02120	Design of mechanical transmission	1
9	CD02121	+BTL	Foundation
10	D02126	Strength of Materials	3
11	CD02127	Strength of Materials 2	2
12	CD02128	Design machines 1	2
13	CD02129	Design machines 2	2
14	CD02130	Descriptive Geometry	2
15	CD02148	Technical Graphics on Computer	2
16	CD02154	Descriptive Geometry - Engineering Drawing 1	2
17	CD02155	Descriptive geometry - Engineering drawing 2	2
18	CD02156	Mechanics of Structures	3
19	CD02160	Engineering Drawing	2
20	CD02161	Soil Mechanics	2
21	CD02162	Engineering Drawing	2
22	CD02163	Civil Mechanics 1	3
23	CD02164	Civil Mechanics 2	3
24	CD02203	Hydraulics	2
25	CD02301	Thermotechnics	2
26	CD02501	Engineering Building Materials	2
27	CD02502	Measuring technique	2
28	CD02503	Engineering materials	2
29	CD02505	Environmental and Safety Engineering	2
30	CD02523	Engineering building materials	3
31	CD02602	Electric Circuit Theory 1	3
32	CD02603	Electrical measurements	3
33	CD02604	Electric Circuit Theory 2	3
34	CD02605	Electromagnetic Field Theory	2
35	CD02606	Electric Machines 1	3
36	CD02607	Power Electronics	3
37	CD02609	Electric Drives	3
38	CD02610	Electric machines 2	3
39	CD02611	Electric Engineering	2
40	CD02612	Basic of Electronics	2
41	CD02613	Automatic Control Theory 2	2
42	CD02621	Electronic Technique 1	2
43	CD02619	Electronic Technique 2	2
44	CD02620	Automatic Control Theory I	3
45	CD02630	Introduction to mechatronics	2
46	CD02631	Electric engineering	3
47	CD02632	Electronic Technique	3
48	CD02633	Automatic Control Theory	2
49	CD03001	mechatronics systems	2

50	CD03002	project of mechatronics system DESIGN	1
51	CD03003	Electric drivers and Power Electronics	3
52	CD03004	Sensors and signal processing	2
53	CD03103	Traffic structures design	2
54	CD03108	Water supply and drainage system	2
55	CD03117	Reinforced Concrete	3
56	CD03122	Practical design of Reinforced Concrete Structures	1
57	CD03125	Structures of Steel buildings	2
58	CD03126	Engineering Vibrations	2
59	CD03127	Practical design of Architecture	1
60	CD03128	Engineering	3
61	CD03130	Brick, Stone and Reinforced Concrete Structure	2
62	CD03132	Construction Practice 1	3
63	CD03133	Construction Machinery	2
64	CD03134	Irrigation and traffic structures design	2
65	CD03137	Structure of Reinforced Concrete buildings	3
66	CD03138	Construction Practice 2	2
67	CD03141	Application of informatics in building design	2
68	CD03142	Practical design of Reinforced Concrete Buildings	1
69	CD03143	Practical design of Construction practice	1
70	CD03145	Structures of Steel buildings	3
71	CD03152	Practical design of Steel building structure	1
72	CD03153	Ventilation and Air-Conditioning	2
73	CD03155	Special Foundation Structure	2
74	CD03168	High-rise building design	2
75	CD03203	Irrigation Technique	2
76	CD03204	Engineering in Animal Production	2
77	CD03206	Cultivation Machinery 1	2
78	CD03207	Harvesting Machinery 1	2
79	CD03209	Cultivation Machinery 2	3
80	CD03210	Harvesting Machinery 2	3
81	CD03211	Design of Cultivation machine	1
82	CD03213	Design of Harvasting machine	1
83	CD03221	Informatic in Mechanical Engineering	2
84	CD03222	Using 3D software in machine design	2
85	CD3223	Hydraulics	3
86	CD03224	Agriculture Machine	2
87	CD03302	Principle of Internal Combustion Engine	3
88	CD03303	Internal Combustion Engine	3
89	CD03305	Science of Fuel and Lubrication Materials	2
90	CD03306	Hydraulic and Pneumatic Transmission	3
91	CD03307	Design Project of Internal Combustion Engine	1
92	CD03308	Dynamics of Internal Combustion Engine	2
93	CD03310	Conjugate Farm Machinery	3
94	CD03312	Automobile and Specialized Vehiecle 1	3
95	CD03313	Technical Diagnosis for machines	3
96	CD03316	Automobile and Specialized Vehiecle 2	3
97	CD03317	Design Project of Conjugate Farm machinery	1
98	CD03323	Machinery Management in Enterprise	2
99	CD03326	Design of Garage with Workshop	2
100	CD03327	Automobile Electric and eelecrical Equipment	3
101	CD03329	Automotive Assembly Technology	3
102	CD03330	Technique of Motorcycle	2

103	CD03334	Automotive Garage Equipments	2
104	CD03337	Automobile Verification Testing	2
105	CD03338	Automobile Transportation Organization	2
106	CD03339	Experimentation of Automobile and Tractor	3
107	CD03352	Structure of Internal Combustion Engine	3
108	CD03351	Hydraulic and Pneumatic Transmission	2
109	CD03353	Theory of Conjugate Farm machinery	3
110	CD03354	Automobile/Tractor Dynamics 1	4
111	CD03355	Automobile components	3
112	CD03356	Automotive Electrical System	3
113	CD03357	Technical maintenance and repair of automobiles	3
114	CD03358	Vehicle Theory	3
115	CD03359	Technical Diagnosis for Automobiles	2
116	CD03360	Automotive Electronical Control	3
117	CD03361	Technical repair of automotive frame and body	2
118	CD03362	Safety and Comfortable Systems in Cars	2
119	CD03363	Driving training	1
120	CD03364	Electronic and electronical Practice	2
121	CD03365	Automobile industrial training 1	6
122	CD03366	Automobile industrial training 2	6
123	CD03367	Vehicle testing	2
124	CD03368	Alternative fuel and pollution control	3
125	CD03369	Principle of internal combustion engine	2
126	CD03370	Design project of internal combustion engine	1
127	CD03401	Project on Post - harvest Technology Equipment	1
128	CD03403	Lifting and Conveying Machine	2
129	CD03406	Food Storage	3
130	CD03407	Equipment for Post - harvest Technology	3
131	CD03408	Project on Post - harvest Technology Equipment	1
132	CD03410	Food Processing	3
133	CD03426	Food Plant Design	2
134	CD03432	Food By-product Processing	2
135	CD03435	Food Packaging	2
136	CD03436	Project on Post-harvest Technology Equipment	1
137	CD03437	Project on Food Processing Machine 2	1
138	CD03438	Food Processing Machinery	2
139	CD03439	Heat-Cool Equipment	3
140	CD03441	Food Quality Management and Testing	2
141	CD03442	IT Application in Food Machine Design	2
142	CD03443	Food Hygiene and Safety	2
143	CD03507	Metal Technology	3
144	CD03508	Manufacturing Technology	3
145	CD03509	Basics for machine reliability	2
146	CD03510	Project of Manufacturing Technology	1
147	CD03513	Welding Machines and Technologies	3
148	CD03514:	CAD and CAM in manufacturing	2
149	CD03515	Surface Treatment Technology	2
150	CD03516	Project of Welding Technology	1
151	CD03517	Technical maintenance and repair of machines	3
152	CD03518	Machine and Pressure Manufacturing Technology	3
153	CD03520	Machine repairing project	1
154	CD03521	Food Refrigeration Engineering	2
155	CD03526:	Casting Technology	2

156	CD03527	Reliability in machine design	2
157	CD03530	Heat Treatment Technology	2
158	CD03536	Rolling and Drawing technology of metals	2
159	CD03544	Project of pressure manufacturing technology	1
160	CD03545	Project of Metal Cutting Machines	1
161	CD03546	Metal Cutting Instruments	2
162	CD03548	Factory design	2
163	CD03550	Machining/Computer numerical control CNC technology	2
164	CD03551	Machining/Advanced Computer numerical control CNC technology	2
165	CD03552	Metal Cutting Mashines	2
166	CD03554	Special Manufacturing Method	2
167	CD03555	Technical repair of metal cutting machines	2
168	CD03556	Technical Maintenance and Repair of Food Machines	2
169	CD03557	Metal Technology	2
170	CD03558	CAD/CAM/CNC	2
171	CD03559	Mechanical processing technology	2
172	CD03614	Information system measurement	2
173	CD03617	Control Electric Driver	3
174	CD03618	Technical Automatic Control Engineering	3
175	CD03619	Microprocessor	2
176	CD03622	Logic Controler	2
177	CD03625	Electronic – Electrical Equipment of Industrial Machines	2
178	CD03632	Manufacturing Process Automation	3
179	CD03634	Sensor Engineering	2
180	CD03635	Electrical Equipment of machine tool	2
181	CD03639	Synthesis control system	2
182	CD03638	Digital Control Systems	2
183	CD03640	Project of Manufacturing Process Automation	2
184	CD03641	Project of Microcontroller and Applications	2
185	CD03642	Automatic Control in Food Technology	2
186	CD03645	Microcontrollers	2
187	CD03646	Project of Microcontroller	2
188	CD03647	PLC control and industrial communication network	3
189	CD03701	Electric Power Supply System	3
190	CD03702	Electrical Apparatuses	2
191	CD03705	High Voltage Technique	3
192	CD03706	Lighting Engineering	
193	CD03707	Electric parts of Power Plants and Substations	3
194	CD03709	Construction Organization of Electrical Projects	2
195	CD03710	Electrical Safety	2
196	CD03715	Short circuit in Power Systems	2
197	CD03716	Electrical Equipment Repair	3
198	CD03719	Electricity Economics	2
199	CD03720	Power System Management and Operation	2
200	CD03723	Electrical Power Supply	3
201	CD03724	Automatic Element	3
202	CD03730	Electric Power Network 1	2
203	CD03731	Electric Power Network 2	2
204	CD03732	Power system stability	2
205	CD03733	Power Application software	2
206	CD03736	Power System Simulation Models	2
207	CD03745	Electrical Power Supply	

208	CD03746	Electrical equipment for industrial enterprises	3
209	CD03747	Electricity Economics	2
210	CD03748	Protecting and automation controlling electrical system	2
211	CD03750	Protecting and automation controlling electrical system 2	2
212	CD03751	Power System Experiment 1	1
213	CD03752	Power System Experiment 2	1
214	CD03753	Electrical Apparatuses	2
215	CD03754	Electrical Equipment for Food Factory	2
216	CD03803	Mechanical Processing Practice	3
217	CD03756	Programming Modeling Robot and Mechatronics	2
218	CD03930	Professional Engineering Practice 1	10
219	CD03823	Internship of Automation	8
220	CD03901	Designing control box	2
221	CD03902	Programable Logic Controller	3
222	CD03904	Engineering programming	2
223	CD03905	Microcontroller and Application	3
224	CD03906	Modelling and Control	2
225	CD03909	Automation Softwares	2
226	CD03913	Robotic	3
227	CD03917	Practice of Automation Engineering 1	8
228	CD03918	Practice of Automation Engineering 2	8
229	CD03919	Practice of power system technique 1	8
230	CD03920	Practice of power system technique 2	8
231	CD03921	Practice in Building & Executing Electrical Construction	8
232	CD03922	Practice of Engineering in animal production	6
233	CD03923	Practice of Harvesting Machinery	6
234	CD03924	Practice of Cultivation Machinery 1	6
235	CD03925	Food Processing Machine Practice 1	6
236	CD03926	Food Processing Machine Practice 2	10
237	CD03927	Manufacturing Practice	6
238	CD03928	Engineering practice 1	8
239	CD03929	Engineering practice 2	10
240	CD03931	Professional Engineering Practice 1	10
241	CD03932	Engineering practice	6
242	CD03933	Professional Civil Engineering Practice	12
243	CD03934	Basic mechatronics practice	1
244	CD03935	Mechatronics engineering practice 1	6
245	CD03936	Mechatronics engineering practice 2	6
246	CD03937	Microcontroller and application	3
247	CD03981	Worker Civil Engineering Practice	12
248	CD04912	Graduation Thesis	10
249	CD04982	Graduation Thesis	10
250	CD04984	Graduation Thesis	10
251	CD04985	Graduation Thesis	10
252	CD04986	Graduation Thesis	10
253	CD04987	Graduation Thesis	10
254	CD04988	Graduation Thesis	10
255	CD04989	Graduation Thesis	10
256	CN03507	Principle of Animal Production	2
257	CP02024	Food Chemistry	3
258	GT01014	Dance Sport	1
259	GT01015	Swimming	1
260	GT01016	General physical education	1

261	GT01017	Athletics	1
262	GT01018	Aerobic Gymnastics	1
263	GT01019	Football	1
264	GT01020	Volley ball	1
265	GT01021	Basketball	1
266	GT01022	Badminton	1
267	GT01023	Chess	1
268	KN01001	Communication Skills	2
269	KN01002	Leadership Skills	2
270	KN01003	Self Management Skills	2
271	KN01004	Job Search Skills	2
272	KN01005	Teamwork Skills	2
273	KN01006	Intergrated Skills	2
274	KQ02014	Principles of Accouting	3
275	KQ02209	Corporation Management	3
276	KQ03107	Basics of Marketing 1	2
277	KQ03205	Business Investment Management	2
278	KQ03339	Accounting for Construction Business	2
279	KT02002	Macroeconomics I	3
280	KT03019	Production Sectoral Economics	3
281	KT03031	Project Management	3
282	KT03048	Investment Project Design and Analysis	3
283	ML01001	Principle of Marxism and Leninism 1	2
284	ML01002	Principle of Marxism and Leninsm 2	3
285	ML01004	Revolutionary guideline of Vietnamese Communist Party	3
286	ML01005	Ho Chi Minh Ideology	2
287	ML01007	Introduction to Sociology 1	2
288	ML01009	Introduction to Laws	2
289	ML03047	Investment law	2
290	MT01001	General chemistry	2
291	MT02038	Environment and Human	2
292	PSN01020	Teamwork	2
293	PSN03012	English for Electrical and Mechanical Engineering	2
294	PKQ03111	Agribusiness Management	2
295	PKQ03366	Business Project Design and Analysis	2
296	PKQ03369	Marketing Principles and Agricultural Products Market System	2
297	PCD00004	Agriculture Machine	2
298	PCD02001	Theoretical Mechanics I	2
299	PCD02002	Theoretical Mechanics II	2
300	PCD02003	Strength of Materials 1	2
301	PCD02004	Strength of Materials 2	2
302	PCD02005	Mechanism Principles	3
303	PCD02006	Design Machines 1	2
304	PCD02007	Design Machines 2	2
305	PCD02008	Design of Mechanical Transmission	1
306	PCD02009	Descriptive Geometry	2
307	PCD02010	Engineering Drawing	3
308	PCD02011	Technical Graphics on Computer	2
309	PCD02012	Thermotechnics	2
310	PCD02013	Measuring Technique	2
311	PCD02014	Technical Materials	2
312	PCD02015	Fluid of Mechanics	2

313	PCD02016	Electric Engineering	2
314	PCD02017	Environmental and Safety Engineering	2
315	PCD02018	Hydraulic and Pneumatic Transmission	2
316	PCD02019	Applied Electronic	2
317	PCD03003	Metal Technology	3
318	PCD03004	Manufacturing Technology	3
319	PCD03005	Project of Manufacturing Technology	1
320	PCD03006	Computer Numerical Control CNC Technology	3
321	PCD03007	Mechanical Processing Practice	3
322	PCD03008	Lifting and Conveying Machine	2
323	PCD03009	Machine and Equipment of Refrigeration	3
324	PCD03010	Food Storage	2
325	PCD03011	Food Processing Equipment 1	3
326	PCD03012	Food Processing Equipment 2	3
327	PCD03013	Practice of Food Processing Equipment	2
328	PCD03014	Project on Food Processing Equipment	1
329	PCD03015	Food Processing Technology 1	3
330	PCD03016	Food Processing Technology 2	3
331	PCD03017	Food Processing Technology Practice	2
332	PCD03018	Project on Food Processing Technology	1
333	PCD03019	Food Quality Management and Testing	2
334	PCD03020	Food Packaging Equipment	2
335	PCD03021	Professional Practice	5
336	PCD03022	Technical Maintenance and Repair of Food Machines	2
337	PCD03023	Automatic Control in Food Technology	2
338	PCD03024	Electrical Equipment for Food Factory	2
339	PCD03025	Food Refrigeration Engineering	2
340	PCD03026	Food Hygiene and Safety	2
341	PCD03027	Food By-product Processing	2
342	PCD03028	Design of Food Processing Plant	2
343	PCD03031	Machining/ Computer Numerical Control CNC Technology 1	2
344	PCD03033	Basic of Cooling Techniques	2
345	PCD03034	Agri-Food Product Storage	2
346	PCD03035	IT Application in Food Machine Design	2
347	PCD03036	Food Process and Food Processing Equipment 1	3
348	PCD03037	Food Process and Food Processing Equipment 2	3
349	PCD03038	Practice of Food Processing	2
350	PCD03039	Process and Food Packaging Equipment	2
351	PCD03040	Professional Practice	5
352	PCD03041	Project on Food Process and Food Processing Equipment	1
353	PCD04001	Graduation Thesis	10
354	PCD04002	Optimisation in Food Technology	2
355	PCD04003	Heat Exchangers	2
356	PCD04004	Steam Boiler	2
357	PCD04005	Food Product Development	2
358	PCD04006	Techniques of Cattle and Livestock Laughtering	2
359	PCD04010	Graduation Thesis	10
360	PCD04011	Design of Food Refrigeration System	2
361	PCD04013	Ventilation and Air-Conditioning	2
362	PTH01001	Probability and Statistics	3
363	QL02026 Trắc địa 1	Geodesy 1	3

364	QL02028	Engineering Geology	2
365	QL03051	Rural Planning	3
366	RQ01007	Applied Informatics	2
367	SN00010	An Introduction to CEFR-based Tests	1
368	SN00011	English 0	2
369	SN01016	Introduction to Psychology	2
370	SN01032	English 1	3
371	SN01033- Tiếng Anh 2	English 2	3
372	TH01002	General Physics A	3
374	TH01005	Analysis 2	3
375	TH01006	Linear Algebra	3
376	TH01007		3
377	TH01009	Introduction to Informatics	2
378	TH01012	Analysis	3
379	TH01026	Numerical methods	3
380	TH01023	Discrete Mathematics	3
381	TH02032	Data Analysis	2
382	TH03219	Principles of wireless communication	2