DONG NAI TECHNOLOGY UNIVERSITY
DNTU

CURRICULUM

Major:	**Electrical - Electronic**
Level of Education:	**Bachelor**
Mode of Study:	**Formal**
Duration of Study:	**4 Years**
Qualification Awarded:	**Full-time Regular**
Training course	**Cohort 21 (2025 - 2029)**
Total Graduation Credits:	**152**

Courses marked with (*) are not included in the calculation of the cumulative grade point average (GPA).

SEMESTER 1: 6 accumulated credits (compulsory: 6, elective: 0)					
Course code	**Course Name**	**Number of credits**	**Total number of sessions**	**Theory session**	**Practic session**
Compulsory module		**6**			
TA70301	Key English 1(*)	3	45	45	0
TA70302	Key English 2(*)	3	45	45	0
TA70303	Key English 3(*)	3	45	45	0
TA70304	English Speaking Community(*)	2	30	30	0
CB70303	Public Speaking Skills	1	15	15	0
DT70115	Introduction to Electrical and Electronic Engineering	1	30	0	30
CB70107	Understanding DNTU(*)	1	15	15	0
TN70020	Introduction to AI(*)	1	15	15	0
CB70309	Effective and Creative Thinking Skills	2	2	30	0
DT70116	Electrical and Electronic Materials	2	30	30	0
CB70411	Physical Education 1 – Swimming(*)	1	30	0	30
SEMESTER 2: 24 cumulative credits (compulsory: 24, elective: 0)					

Course code	Course Name	Number of credits	Total number of sessions	Theory session	Practic session
Compulsory module		**24**			
CB70101	Marxist-Leninist Philosophy	3	45	45	0
CB70202	Advanced Mathematics	3	45	45	0
CB71202	Complex Functions and Laplace Transforms	2	30	30	0
TA70305	Intensive English 1	4	60	60	0
TH70001	Informatics 1	2	45	15	30
CB70304	Emotional Management Skills	1	15	15	0
CB70206	Scientific Research Methodology	2	30	30	0
DT70107	Specialized Software Practice	2	60	0	60
DT70117	Circuit Analysis	3	45	45	0
DT70208	Electronic Components	2	30	30	0
CB70401	National Defense and Security Education 1(*)	3	45	45	0
CB70402	National Defense and Security Education 2(*)	2	30	30	0
CB70403	National Defense and Security Education 3(*)	1	30	0	30
CB70404	National Defense and Security Education 4(*)	2	60	0	60
Elective course (Choose 1 out of 4 courses)					
CB71410	Physical Education 2 – Soccer(*) - Pickleball	1	30	0	30
CB71412	Physical Education 2 – Soccer(*)	1	30	0	30
CB71403	Physical Education 2 – Volleyball(*)	1	30	0	30
CB71404	Physical Education 2 – Badminton(*)	1	30	0	30
SEMESTER 3: 21 accumulated credits (compulsory: 19, elective: 02)					
Course code	**Course Name**	**Number of credits**	**Total number of sessions**	**Theory session**	**Practic session**
Compulsory module		**19**			
CB70102	Marxist-Leninist Political Economy	2	30	30	0
CB70203	Physics	3	45	45	0
TA70306	Intensive English 2	4	60	60	0
TH70002	Informatics 2	2	60	0	60

CB70305	Communication and Relationship-Building Skills	2	30	30	0
DT70118	Measurement Engineering	2	60	0	60
DT71115	Electrical Machines	2	30	0	0
DT71116	Electrical Apparatus	2	60	0	60
Elective modules (Choose 2 out of 6 modules)		**2**			
CB71413	Physical Education 3 – Fitness(*)	1	30	0	30
CB71406	Physical Education 3 – Dancesport(*)	1	30	0	30
CB71407	Physical Education 3 – Basketball(*)	1	30	0	30
CB71414	Physical Education 3 – Martial Arts(*)	1	30	0	30
CB71101	Environment and Sustainable Development	2	30	30	0
CB71102	Behavioral Psychology	2	30	30	0
SEMESTER 4: 21 accumulated credits (compulsory: 19, elective: 02)					
Course code	**Course Name**	**Number of credits**	**Total number of sessions**	**Theory session**	**Practic session**
Compulsory module		**19**			
CB70103	Scientific Socialism	2	30	30	0
TA70307	Intensive English 3	4	60	60	0
CB70307	Industrial Accident Prevention Skills	2	30	30	0
DT70210	Pulse-Digital Techniques	2	30	30	0
DT70211	Pulse-Digital Technique Practice	3	90	0	90
DT70119	Sensor and Measurement Techniques	3	60	0	60
DT70213	Automatic Control Theory	3	45	45	0
Elective course (Choose 1 out of 3 courses)		**2**			
CB71104	Green Economy and Sustainable Development	2	30	30	0
CB71105	Vietnamese Culture and Traditional Music	2	30	30	0
CB71106	History of World Civilization	2	30	30	0
SEMESTER 5: 22 accumulated credits (compulsory: 20, elective: 02)					
Course code	**Course Name**	**Number of credits**	**Total number of sessions**	**Theory session**	**Practic session**
Compulsory module		**20**			

CB70104	Ho Chi Minh Thought	2	30	30	0
CB70105	History of the Communist Party of Vietnam	2	30	30	0
TA70308	Intensive English 4	4	60	60	0
DT70120	PLC	3	45	45	0
DT70121	PLC Laboratory	3	90	0	90
DT70212	C Programming for Microcontrollers	2	30	30	0
DT70214	Power Electronics	2	30	30	0
DT70215	Power Electronics Laboratory	2	60	0	60
Elective course (Choose 1 out of 3 courses)		**2**			
DT71117	Power supply	2	30	30	0
DT71221	Electronic circuit	2	30	30	0
SEMESTER 6: 21 cumulative credits (compulsory: 14, elective: 07)					
Course code	**Course Name**	**Number of credits**	**Total number of sessions**	**Theory session**	**Practic session**
Compulsory module		**14**			
CB70106	General Law	2	30	30	0
CT70104	Autocad	2	0	0	60
DT70217	Electrical and Electronic Engineering Projects	1	30	0	0
DT70216	Microcontrollers	3	90	0	90
DT70122	Pneumatics and Electrical Engineering	2	30	30	0
DT70123	Pneumatics and Electrical Engineering Practices	2	60	0	60
DT70113	Process Automation	2	60	0	60
Elective modules (Choose 3 out of 4 modules)		**7**			
DT71104	Electric Machine Control	3	45	45	0
DT71222	Electronic Circuits Laboratory	2	60	0	60
DT71124	Power Supply Design	3	90	0	90
DT71206	Electronic Circuit Design	2	60	0	60
SEMESTER 7: 19 accumulated credits (compulsory: 4, elective: 15)					

Course code	Course Name	Number of credits	Total number of sessions	Theory session	Practic session
Compulsory module		**4**			
DT70218	Control Engineering Project	1	30	0	0
DT71122	Electric Drives	3	90	0	90
Elective modules (Choose 5 out of 10 modules)		**15**			
DT71105	Electrical Machine Control Practice	3	90	0	90
DT71119	Lighting Engineering	3	90	0	90
DT71123	Industrial Communication Networks	3	90	0	90
DT71224	Digital Integrated Circuit Design	3	45	45	0
DT71225	Digital Integrated Circuit Design Practice	3	90	0	90
DT71215	Advanced Microcontrollers	3	90	0	90
DT71229	Computer-Based Measurement and Control	3	90	0	90
DT71231	Renewable Energy	3	45	45	0
DT71232	Renewable Energy Practice	3	90	0	90
DT71226	Embedded Systems Programming	3	90	0	90
SEMESTER 8: 18 cumulative credits (compulsory: 8, elective: 10)					
Course code	**Course Name**	**Number of credits**	**Total number of sessions**	**Theory session**	**Practic session**
Compulsory module		**8**			
DT70219	Graduation Internship	8	480	0	0
Graduation Thesis		***10***			
DT71234	Graduation Thesis	10	300	0	0
Coursework as an alternative to a graduation thesis		***10***			
DT71230	Intelligent Control	3	90	0	90
DT71228	IoT Technology and Applications	3	90	0	90
DT71233	Graduation Project	4	120	0	0