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 20 (2024 - 2028)**
Total Graduation Credits:	**152**

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

SEMESTER 1: 16 accumulated credits (compulsory: 5)					
Course code	**Course Name**	**Number of credits**	**Total number of sessions**	**Theory session**	**Practic session**
Compulsory module		**16**			
3070200	Electrical and electronic materials	2	45	15	30
470165	Introduction to Electrical and Electronic Engineering	2	45	15	30
70206	Key English 1 *	3	45	45	0
70207	Key English 2 *	3	45	45	0
70208	Key English 3 *	3	45	45	0
70209	English Speaking Community *	2	30	30	0
CB70303	Public speaking skills	1	15	15	0
Elective course : 0		**0**			
SEMESTER 2: 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**			
DT70101	Circuit Analysis	3	60	30	30

DT70201	Electronic Components	3	60	30	30
CB70101	Marxist-Leninist Philosophy	3	45	45	0
CB70301	Informatics 1	2	45	15	30
CB70304	Emotional Management Skills	1	15	15	0
TA70305	Intensive English 1	4	60	60	0
CB70202	Advanced Mathematics	3	45	45	0
Elective course (Choose 1 out of 2 courses)		**2**			
CB71202	Complex Functions and Laplace Transforms	2	30	30	0
CB70206	Science Research Methods	2	30	30	0
CB70102	Marxist-Lenin Political Economy	2	30	30	0
CB71401	Physical education 1 - Swimming *	1	30	0	30
TA70306	Intensive English 2	4	60	60	0
CB70302	Informatics 2	2	60	0	60
CB70305	Communication and Relationship Building Skills	2	30	30	0
CB70203	Physics	3	45	45	0
Elective course		**7**			
DT71101	Electrical machine	3	60	30	30
DT71102	Electrical apparatus	2	45	15	30
DT71201	Computer Architecture for the Electronics Field	3	75	15	60
DT71202	Signaling theory	2	30	30	0
DT71203	Optoelectronics	2	30	30	0
CB71101	Environment and Sustainable Development	2	30	30	0
CB71102	Behavioral psychology	2	30	30	0
CB71103	Psychology of Medical Ethics	2	30	30	0
SEMESTER 4: 31 cumulative credits (compulsory: 17, elective: 05)					

Course code	Course Name	Number of credits	Total number of sessions	Theory session	Practic session
Compulsory module		**26**			
CT70104	AutoCAD	2	60	0	60
DT70103	Measurement Techniques	3	60	30	30
DT70107	Applied Informatics for Specialized Fields	2	60	0	60
DT70202	Pulse Techniques	2	45	15	30
CB70103	Scientific Socialism	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
CB71402	Physical Education 2 *	1	30	0	30
TA70307	Intensive English 3	4	60	60	0
CB70307	Industrial Accident Prevention Skills	2	30	30	0
Elective course		**5**			
DT71103	Power Supply	3	60	30	30
DT71204	Electronic Circuits 1	3	60	30	30
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: 24 cumulative credits (compulsory: 20, elective: 03)					
Course code	**Course Name**	**Number of credits**	**Total number of sessions**	**Theory session**	**Practic session**

Compulsory module		**21**			
DT70105	Sensor and Measurement Technology	3	60	30	30
DT70106	Automatic Control Theory	3	60	30	30
DT70203	Digital Engineering	3	75	15	60
DT70204	C Programming	3	60	30	30
CB70104	Ho Chi Minh Thought	2	30	30	0
CB70105	History of the Communist Party of Vietnam	2	30	30	0
CB71405	Physical Education 3 *	1	30	0	30
TA70308	Intensive English 4	4	60	60	0
Select a study module (Choose 1 of the 2 modules)		**3**			
DT71104	Electric machine control	3	45	45	0
DT71205	Electronic circuit 2	3	75	15	60
SEMESTER 6: 22 cumulative credits (compulsory: 16, elective: 06)					
Course code	**Course Name**	**Number of credits**	**Total number of sessions**	**Theory session**	**Practic session**
Compulsory module		**16**			
DT70109	PLC	3	75	15	60
DT70110	Course Project 1	1	30	0	30
DT70114	Electropneumatics	4	90	30	60
DT70205	Power Electronics	3	60	30	30
DT70206	Microcontrollers	3	60	30	30
CB70106	General Law	2	30	30	0
Elective course		**6**			
DT71105	Electrical Machine Control Practice	3	90	0	90

DT71106	Power Systems	3	60	30	30
DT71107	Illumination Engineering	3	75	15	60
DT71108	Power Plants and Substations	3	60	30	30
DT71206	Electronic Circuit Design	3	90	0	90
DT71207	Intelligent Control	3	75	15	60
DT71208	Telecommunication Systems	3	45	45	0
DT71209	Digital Signal Processing (DSP)	3	75	15	60
SEMESTER 7: 21 cumulative credits (compulsory: 6, elective: 15)					
Course code	**Course Name**	**Number of credits**	**Total number of sessions**	**Theory session**	**Practic session**
Compulsory module		**6**			
DT70111	Course Project 2	1	30	0	30
DT70112	Advanced PLC	3	90	0	90
DT70113	Automation of Technological Processes	2	60	0	60
Elective course		**15**			
DT71109	Power System Protection	3	75	15	60
DT71110	Industrial Communication Networks	3	75	15	60
DT71111	Renewable Energy	3	75	15	60
DT71112	Power Supply Design	3	75	15	60
DT71113	Advanced Pneumatics	3	90	0	90
DT71114	Electric Drives	3	75	15	60
DT71210	FPGA Technology	4	90	30	60
DT71211	Industrial Instrumentation	2	30	30	0
DT71212	Computer-Based Instrumentation and Control	3	75	15	60
DT71213	Embedded Systems	3	75	15	60

DT71214	Networking and Data Communication	3	75	15	60
DT71215	Advanced Microcontrollers	2	60	0	60
DT71216	Automatic Control Equipment and Systems	3	75	15	60
DT71217	IOT	3	75	15	60
SEMESTER 8: 16 cumulative credits (compulsory: 16, elective: 0)					
Course code	**Course Name**	**Number of credits**	**Total number of sessions**	**Theory session**	**Practic session**
Compulsory module		**16**			
DT71218	Graduation Internship	8	30	30	0
DT71219	Graduation Thesis	8	30	30	0
70138	Orientation Education	0	0	0	0
Elective course		**0**			
Compulsory module		**16**			
DT71218	Thực tập tốt nghiệp	8	30	30	0
DT71219	Khóa luận tốt nghiệp	8	30	30	0
70138	Giáo dục định hướng	0	0	0	0
Elective course		**0**			