DONG NAI TECHNOLOGY UNIVERSITY

DNTU

CURRICULUM

Major:	**Electrical - Electronic**
Level of Education:	**Bachelor**
Mode of Study:	**Formal**
Duration of Study:	**4,5 Years**
Qualification Awarded:	**Full-time Regular**
Training course	Cohort 22 (2026 - 2030)
Total Graduation Credits:	**152**

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

SEMESTER 1: 17 accumulated credits (compulsory: 14, elective: 3)					
Course code	**Course Name**	**Number of credits**	**Total number of sessions**	**Theory session**	**Practic session**
Compulsory module		**14**			
DT70115	Introduction to Electrical and Electronic Engineering	1	15	0	15
DT70116	Electrical and Electronic Materials	2	30	30	0
DT70117	Circuit Analysis	3	45	45	0
DT70208	Electronic Components	2	30	30	0
DT71116	Electrical Apparatus	2	60	0	60
DT70210	Pulse and Digital Techniques	2	30	30	0
CT70104	AutoCAD	2	60	0	60
TH70001	Informatics 1*	2	45	15	30
CB70411	Swimming(*)	1	30	0	30

Elective course (Choose 1 out of 2 courses)		**3**			
TA71331	English 1	3	45	45	0
TQ71321	Chinese 1	3	45	45	0
SEMESTER 2: 16 accumulated credits (compulsory: 11, elective: 5)					
Course code	**Course Name**	**Number of credits**	**Total number of sessions**	**Theory session**	**Practic session**
Compulsory module		**11**			
CB70101	Marxist-Leninist Philosophy	3	45	45	0
CB70202	Advanced Mathematics	3	45	45	0
DT70118	Measurement Engineering	2	60	0	60
DT70211	Pulse and Digital Techniques Laboratory	3	90	0	90
TH70002	Informatics 2*	2	60	0	60
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 modules (Choose 3 out of 8 modules)		**5**			
CB70311	Occupational Safety and Technical Environment	2	30	30	0
CB70305	Communication and Relationship-Building Skills	2	30	30	0
TA71332	English 2	3	45	45	0
TQ71302	Chinese 2	3	45	45	0

CB71410	Pickleball(*)	1	30	0	30
CB71412	Soccer(*)	1	30	0	30
CB71403	Volleyball(*)	1	30	0	30
CB71404	Badminton(*)	1	30	0	30
SEMESTER 3: 20 accumulated credits (compulsory: 15, elective: 05)					
Course code	**Course Name**	**Number of credits**	**Total number of sessions**	**Theory session**	**Practic session**
Compulsory module		**15**			
CB70206	Scientific Research Methodology	2	30	30	0
CB70106	General Law	2	30	30	0
CB70102	Marxist-Leninist Political Economy	2	30	30	0
CB70203	Physics	3	45	45	0
DT70119	Sensor and Measurement Technology	3	60	0	60
DT70120	PLC (Programmable Logic Controller)	3	45	45	0
Elective modules (Choose 3 out of 7 modules)		**5**			
CB71201	Computational Methods	2	30	30	0
CB71202	Complex Functions and Laplace Transforms	2	30	30	0
CB71413	Fitness(*)	1	30	0	30
CB71407	Basketball(*)	1	30	0	30
CB71414	Martial Arts(*)	1	30	0	30
TA71333	English 3	3	45	45	0
TQ71303	Chinese 3	3	45	45	0

SEMESTER 4: 20 accumulated credits (compulsory: 20, elective: 0)					
Course code	**Course Name**	**Number of credits**	**Total number of sessions**	**Theory session**	**Practic session**
Compulsory module		**20**			
CB70103	Scientific Socialism	2	30	30	0
DT70209	Specialized Software Practice	2	60	0	60
DT70213	Automatic Control Theory	3	45	45	0
DT70214	Power Electronics	2	30	30	0
DT70121	PLC Practice	3	90	0	90
DT70217	Electrical and Electronic Engineering Project	1	30	0	0
DT71115	Electrical Machines	2	30	30	0
DT70220	C Programming for Microcontrollers	3	30	30	0
DT71221	Electronic Circuits	2	30	30	0
Elective course (Choose 1 out of 2 courses)					
TA71334	English for International Certification*	9	135	135	0
TQ71304	Chinese for International Certification*	9	135	135	0

SEMESTER 5: 21 accumulated credits (compulsory: 21, elective: 0)					
Course code	**Course Name**	**Number of credits**	**Total number of sessions**	**Theory session**	**Practic session**
Compulsory module		**21**			
CB70104	Ho Chi Minh Thought	2	30	30	0
DT70215	Power Electronics Laboratory	2	60	0	60
DT70216	Microcontrollers	3	90	0	90

DT70125	Digital Signal Processing	3	30	30	0
DT70126	Electropneumatics	3	60	30	30
DT70113	Automation of Technological Processes	2	60	0	60
DT71222	Electronic Circuits Laboratory	2	60	0	60
DT71106	Control of Electrical Machines	3	60	30	30
DT70218	Control Engineering Project	1	30	0	0
SEMESTER 6: 22 accumulated credits (compulsory: 22, elective: 0)					
Course code	**Course Name**	**Number of credits**	**Total number of sessions**	**Theory session**	**Practic session**
Compulsory module		**22**			
CB70105	History of the Communist Party of Vietnam	2	30	30	0
DT70124	Data Structures and Algorithms	3	30	30	0
DT71227	Electronic Circuit Design	2	60	0	60
DT71229	Computer-Based Measurement and Control	3	90	0	90
DT71232	Renewable Energy	3	60	30	30
DT71235	Cloud Computing and Applications	3	60	30	30
DT71241	Advanced Microcontrollers	3	90	0	90
DT71236	Industrial Project Management	3	45	45	0
SEMESTER 7: 18 accumulated credits (compulsory: 0, elective: 18)					
Course code	**Course Name**	**Number of credits**	**Total number of sessions**	**Theory session**	**Practic session**
Elective modules (Choose 6 out of 12 modules)		**18**			
Automation & Intelligent Control		**18**			

DT71237	Computer Vision and Applications	3	60	30	30
DT71239	Smart Factories	3	60	30	30
DT71122	Electric Drives	3	90	0	90
DT71230	Intelligent Control	3	90	0	90
DT71238	Robot Control Engineering	3	75	15	60
DT71123	Industrial Communication Networks	3	90	0	90
IoT Technology – Embedded Systems		**18**			
DT71240	Embedded Systems Design	3	60	30	30
DT71242	Advanced IoT Solutions and Systems	3	60	30	30
DT71224	Digital Integrated Circuit Design	3	45	45	0
DT71225	Digital Integrated Circuit Design Practices	3	90	0	90
DT71226	Embedded Systems Programming	3	90	0	90
DT71228	IoT Techniques and Applications	3	90	0	90
SEMESTER 8: 8 accumulated credits (compulsory: 8, elective: 0)					
Course code	**Course Name**	**Number of credits**	**Total number of sessions**	**Theory session**	**Practic session**
Compulsory module		**8**			
DT70234	Graduation Internship	8	480	0	0
SEMESTER 9: 10 accumulated credits (compulsory: 10, elective: 0)					
Course code	**Course Name**	**Number of credits**	**Total number of sessions**	**Theory session**	**Practic session**
Compulsory module		**10**			
DT71234	Graduation Thesis	10	300	0	0