DONG NAI TECHNOLOGY UNIVERSITY

DNTU

CURRICULUM

Major: **Information Technology**

Educational Level: **Undergraduate**

Mode of Study: **Full-time**

Duration of Study: **4 years**

Degree Awarded: **Bachelor's Degree**

Cohort: **Cohort 21 (2025 - 2029)**

Total cumulative credits for the whole program: **126**

Courses marked with (*) are not calculated into the cumulative GPA.

SEMESTER 1: 4 cumulative credits (Compulsory: 4, Elective: 0)					
Course Code	**Course Name**	**Credits**	**Total Hours**	**Theory Hours**	**Practice Hours**
Compulsory Courses		**4**			
CB70303	Public Speaking Skills	1	15	15	0
TH70102	Introduction to Information Technology	1	15	15	0
TH70104	Computer Architecture	2	45	15	30
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
CB70107	Introduction to DNTU (*)	1	15	15	0
TN70020	Introduction to AI (*)	1	15	15	0

SEMESTER 2: 21 cumulative credits (Compulsory: 19, Elective: 2)					
Course Code	**Course Name**	**Credits**	**Total Hours**	**Theory Hours**	**Practice Hours**

Compulsory Courses		**19**			
CB70411	Swimming (*)	1	30	0	30
TA70305	Intensive English 1	4	60	60	0
CB70304	Emotional Management Skills	1	15	15	0
CB70101	Marxist-Leninist Philosophy	3	45	45	0
CB70202	Advanced Mathematics	3	45	45	0
TH70001	Informatics 1	2	45	15	30
TH70105	Fundamentals of Programming	3	60	30	30
PM70203	Databases	3	60	30	30
CB70401	National Defense and Security Education (Course 1) (*)	3	45	45	0
CB70402	National Defense and Security Education (Course 2) (*)	2	30	30	0
CB70403	National Defense and Security Education (Course 3) (*)	1	30	0	30
CB70404	National Defense and Security Education (Course 4) (*)	2	60	0	60
Elective Courses		**2**			
PM71201	Applied Computer Graphics	2	60	0	60
TH71101	Operating Systems	2	45	15	30
CB71412	Football(*)	1	30	0	30
CB71403	Volleyball(*)	1	30	0	30
CB71404	Badminton(*)	1	30	0	30
CB71410	Pickleball(*)	1	30	0	30
CB71413	Fitness(*)	1	30	0	30
CB71406	Dancesport(*)	1	30	0	30

CB71407	Basketball(*)	1	30	0	30
CB71414	Martial Arts(*)	1	30	0	30
SEMESTER 3: 20 cumulative credits (Compulsory: 18, Elective: 2)					
Course Code	**Course Name**	**Credits**	**Total Hours**	**Theory Hours**	**Practice Hours**
Compulsory Courses		**18**			
CB70102	Marxist-Leninist Political Economy	2	30	30	0
TA70306	Intensive English 2	4	60	60	0
CB70305	Communication and Relationship Building Skills	2	30	30	0
CB70106	Introduction to Law	2	30	30	0
TH70106	Computer Networks	3	60	30	30
TH70002	Informatics 2	2	60	0	60
PM70202	Programming Techniques	3	60	30	30
Elective Courses		**2**			
CB71101	Environment and Sustainable Development	2	30	30	0
CB71102	Behavioral Psychology	2	30	30	0
SEMESTER 4: 21 cumulative credits (Compulsory: 16, Elective: 5)					
Course Code	**Course Name**	**Credits**	**Total Hours**	**Theory Hours**	**Practice Hours**
Compulsory Courses		**16**			
PM70204	Web Design	3	60	30	30
TN70023	Discrete Structures	3	45	45	0
CB70103	Scientific Socialism	2	30	30	0
TA70307	Intensive English 3	4	60	60	0

CB70206	Scientific Research Methodology	2	30	30	0
CB70307	Industrial Accident Prevention Skills	2	30	30	0
Elective Courses		**5**			
CB71104	Green Economy and Sustainable Development	2	30	30	0
CB71105	Vietnamese Traditional Culture and Music	2	30	30	0
CB71106	History of World Civilizations	2	30	30	0
TH71104	Routing and Switching	3	60	30	30
TH71127	Basic Data Science	3	60	30	30
SEMESTER 5: 22 cumulative credits (Compulsory: 19, Elective: 3)					
Course Code	**Course Name**	**Credits**	**Total Hours**	**Theory Hours**	**Practice Hours**
Compulsory Courses		**19**			
CB70104	Ho Chi Minh Ideology	2	30	30	0
CB70105	History of the Communist Party of Vietnam	2	30	30	0
TA70308	Intensive English 4	4	60	60	0
TH70107	Data Structures and Algorithms	3	60	30	30
PM70205	Object-Oriented Programming	3	60	30	30
TH70113	Network System Design	2	60	0	60
TH70108	Database Management Systems	3	60	30	30
Elective Courses		**3**			
TH71126	Cryptography and Information Security	3	60	30	30
PM71204	Windows Programming	3	60	30	30
SEMESTER 6: 14 cumulative credits (Compulsory: 5, Elective: 9)					

Course Code	Course Name	Credits	Total Hours	Theory Hours	Practice Hours
Compulsory Courses		**5**			
TH70110	Artificial Intelligence	3	60	30	30
CB70309	Effective and Creative Thinking Skills	2	30	30	0
Elective Courses		**9**			
TH71106	Web Programming	3	60	30	30
TH71112	Network Systems Administration	3	60	30	30
TH71109	Machine Learning	3	60	30	30
TH71115	Network Security	3	60	30	30
TH71117	Software Engineering	3	60	30	30
PM71206	.NET Technology	3	60	30	30
SEMESTER 7: 14 cumulative credits (Compulsory: 8, Elective: 6)					
Course Code	**Course Name**	**Credits**	**Total Hours**	**Theory Hours**	**Practice Hours**
Compulsory Courses		**8**			
TH70109	Systems Analysis and Design	3	60	30	30
TH70115	Mobile Programming	3	60	30	30
TH70114	Information Technology Project Management	2	45	15	30
Elective Courses		**6**			
TH71111	Computer Vision	3	60	30	30
TH71108	Web API	3	60	30	30
TH71118	Blockchain Technology	3	60	30	30
TH71114	E-Commerce	3	60	30	30

TH71124	Software Testing and Quality Assurance	3	60	30	30
TH71125	Network Technology	3	60	30	30
SEMESTER 8: 10 cumulative credits (Compulsory: 10, Elective: 0)					
Course Code	**Course Name**	**Credits**	**Total Hours**	**Theory Hours**	**Practice Hours**
Compulsory Courses		**10**			
TH70116	Graduation Internship	4	180	0	180
TH70117	Graduation Thesis	6	180	0	180
TH70118	Graduation Topic (Alternative to Graduation Thesis)	3	60	30	30
TH70119	IoT Technology and Applications (Alternative to Graduation Thesis)	3	60	30	30