DONG NAI TECHNOLOGY UNIVERSITY
DNTU

CURRICULUM

Major: **Environmental Engineering Technology**
Level of education: **Undergraduate**
Mode of study: **Full-time**
Duration: **4 years**
Degree awarded: **Engineer**
Cohort: **Cohort 21 (2025 - 2029)**
Total accumulated credits for the program: **152**

Courses marked (*) are not included in the cumulative GPA.

SEMESTER 1: 4 accumulated credits (compulsory: 4, elective: 0)					
Course code	**Course title**	**Credits**	**Total periods**	**Theory periods**	**Practice periods**
Compulsory courses		**4**			
TN70020	Introduction to AI *	1	15	15	0
CB70107	Understanding DNTU *	1	15	15	0
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
CB70411	Swimming *	1	30	0	30
CB70303	Public Speaking Skills	1	15	15	0
MT70148	Introduction to Environmental Engineering Technology	1	15	15	0
HH70003	General Chemistry	2	30	30	0
SEMESTER 2: 19 accumulated credits (compulsory: 19, elective: 0)					
Course code	**Course title**	**Credits**	**Total periods**	**Theory periods**	**Practice periods**
Compulsory courses		**19**			
CB70101	Marxist-Leninist Philosophy	3	45	45	0
CB70202	Advanced Mathematics	3	45	45	0

TH70001	Informatics 1	2	45	15	30
TA70305	Intensive English 1	4	60	60	0
CB70304	Emotional Management Skills	1	15	15	0
XD70044	Descriptive Geometry and Technical Drawing	2	60	0	60
MT70107	Environmental Toxicology	2	30	30	0
MT70103	Sustainable Production and Consumption	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
Physical Education (choose 1 of 3 courses)		**1**			
CB71412	Football *	1	30	0	30
CB71403	Volleyball *	1	30	0	30
CB71404	Badminton *	1	30	0	30
CB71410	Pickleball *	1	30	0	30
SEMESTER 3: 28 accumulated credits (compulsory: 24, elective: 4)					
Course code	**Course title**	**Credits**	**Total periods**	**Theory periods**	**Practice periods**
Compulsory courses		**24**			
CB70206	Scientific Research Methodology	2	30	30	0
MT70104	Environmental Engineering Chemistry	2	30	30	0
CB70102	Marxist-Leninist Political Economy	2	30	30	0
CB70106	Introduction to Law	2	30	30	0
CB70205	Applied Statistics	3	45	45	0
CT70104	AutoCAD	2	60	0	60
TH70002	Informatics 2	2	60	0	60
TA70306	Intensive English 2	4	60	60	0
CB70305	Communication and Relationship-Building Skills	2	30	30	0
MT70108	Environmental Technology Processes	3	45	45	0

Physical Education (choose 1 of 4 courses)		**1**			
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
Elective courses (choose 2 of 3 courses)		**4**			
CB71102	Behavioral Psychology	2	30	30	0
CB71101	Environment and Sustainable Development	2	30	30	0
CB71104	Green Economy and Sustainable Development	2	30	30	0
SEMESTER 4: 18 accumulated credits (compulsory: 14, elective: 4)					
Course code	**Course title**	**Credits**	**Total periods**	**Theory periods**	**Practice periods**
Compulsory courses		**14**			
CB70103	Scientific Socialism	2	30	30	0
TA70307	Intensive English 3	4	60	60	0
CB70307	Industrial Accident Prevention Skills	2	30	30	0
MT70133	Environmental Communication	2	30	30	0
MT70134	Environmental Economics	2	30	30	0
MT70109	Environmental Law and Policy	2	30	30	0
Elective courses (choose 2 of 4 courses)		**4**			
MT71105	Applied Ecology	2	30	30	0
MT71117	Environmental Quality Management	2	30	30	0
MT71121	Urban and Industrial Park Environmental Management	2	30	30	0
MT71131	Climate Change and Adaptation Solutions	2	30	30	0
SEMESTER 5: 21 accumulated credits (compulsory: 17, elective: 4)					
Course code	**Course title**	**Credits**	**Total periods**	**Theory periods**	**Practice periods**
Compulsory courses		**17**			
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
MT70131	Air Pollution Control	3	45	45	0
MT70132	Management and Operation of Environmental Treatment Facilities	2	30	30	0
MT70202	Occupational Safety and Health Law	2	30	30	0
MT70201	Occupational Health	2	30	30	0
Elective courses (choose 2 of 3 courses)		**4**			
MT71114	Corporate Environmental Management	2	30	30	0
MT71132	Renewable Energy	2	30	30	0
MT71133	Cleaner Production and Pollution Prevention	2	30	30	0
SEMESTER 6: 24 accumulated credits (compulsory: 14, elective: 10)					
Course code	**Course title**	**Credits**	**Total periods**	**Theory periods**	**Practice periods**
Specialization: Environment and Sustainable Development					
Compulsory courses		**14**			
CB70309	Effective and Creative Thinking Skills	2	30	30	0
MT70121	Environmental Impact Assessment	2	30	30	0
MT70105	Environmental Monitoring and Measurement	2	30	30	0
MT70113	Environmental Analysis	2	30	30	0
MT70114	Environmental Analysis Practice	2	60	0	60
MT70122	Integrated Natural Resource and Environmental Management	2	30	30	0
MT70140	Specialized Internship	2	100	0	100
Specialized elective courses (choose 5 of 8 courses)		**10**			
MT71134	Environmental Monitoring and Measurement Practice	1	30	0	30
MT71106	Clean Technology in Environmental Treatment	2	30	30	0
MT71108	Soil Pollution and Degradation Remediation	2	30	30	0
MT71110	Marine and Coastal Resource Management	2	30	30	0
MT71112	Agricultural Environmental Management	2	30	30	0
MT71119	Water Supply and Drainage Networks	2	30	30	0

MT71138	Environmental Microbiology	2	30	30	0
MT71140	ISO 14001 Environmental Management System	2	30	30	0
Specialization: Health, Safety and Environment					
Compulsory courses		**14**			
CB70309	Effective and Creative Thinking Skills	2	30	30	0
DD70040	Basic First Aid Practice	2	60	0	60
MT70231	Industrial Hygiene	2	30	30	0
MT70232	Hazard Identification and Risk Assessment	2	30	30	0
MT70238	First Aid	2	30	30	0
MT70239	Occupational Safety and Health Training Skills	2	30	30	0
MT70239	Specialized Internship	2	100	0	0
Specialized elective courses (choose 5 of 8 courses)		**10**			
MT71201	Fundamentals of the Vietnam Trade Union in Relation to HSE	2	30	30	0
MT71203	Occupational Psychology	2	30	30	0
MT71204	Fire Prevention and Fighting Safety Techniques	2	30	30	0
MT71208	Personal Protective Equipment	2	30	30	0
MT71213	Industrial Ventilation	2	30	30	0
MT71214	Industrial Lighting Engineering	2	30	30	0
MT71233	Community Health	2	30	30	0
MT71234	Labor Relations	2	30	30	0
SEMESTER 7: 20 accumulated credits (compulsory: 10, elective: 10)					
Course code	**Course title**	**Credits**	**Total periods**	**Theory periods**	**Practice periods**
Specialization: Environment and Sustainable Development					
Compulsory courses		**10**			
MT70135	Application of Informatics in Environmental Science	2	60	0	60
MT70136	Environmental Auditing	2	30	30	0
MT70137	Environmental Project Management	2	30	30	0
MT70138	Environmental Modeling	2	30	30	0

MT70139	Solid and Hazardous Waste Management	2	30	30	0
Specialized elective courses (choose 5 of 8 courses)		**10**			
MT71113	Application of GIS in Environmental Science	2	30	30	0
MT71120	Waste Incineration Engineering	2	30	30	0
MT71123	Application of Materials in Environmental Treatment	2	30	30	0
MT71124	Forest Resources and Biodiversity Management	2	30	30	0
MT71135	Air and Noise Pollution Control Engineering	3	45	45	0
MT71136	Water Supply Treatment Engineering	2	30	30	0
MT71137	Wastewater Treatment Engineering	3	45	45	0
MT71139	Social Accountability Management Systems	2	30	30	0
Specialization: Health, Safety and Environment					
Compulsory courses		**10**			
MT70233	Ergonomics for Occupational Safety and Health	2	30	30	0
MT70234	Industrial Fire and Explosion Prevention	2	30	30	0
MT70235	Chemical Safety	2	30	30	0
MT70236	Construction Safety	2	30	30	0
MT70237	Electrical Safety	2	30	30	0
Specialized elective courses (choose 5 of 8 courses)		**10**			
MT71209	Harmful Radiation Safety	2	30	30	0
MT71211	Mechanical Safety Engineering	2	30	30	0
MT71215	Laboratory Safety Techniques	2	30	30	0
MT71216	Occupational Safety and Health Inspection	2	30	30	0
MT71217	Occupational Safety Risk Management	2	30	30	0
MT71219	Accident Investigation and System Safety	2	30	30	0
MT71231	Lifting and Conveying Equipment Safety Engineering	2	30	30	0
MT71232	Pressure Equipment Safety Engineering	2	30	30	0
SEMESTER 8: 18 accumulated credits (compulsory: 18, elective: 0)					
Course code	**Course title**	**Credits**	**Total periods**	**Theory periods**	**Practice periods**

Specialization: Environment and Sustainable Development					
Professional internship, graduation internship		***8***			
MT70126	Graduation Internship	8	400	0	400
Graduation thesis		***10***			
MT70127	Graduation thesis	10	300	0	300
Courses in lieu of the graduation thesis		***10***			
MT70141	Sustainability Reporting and Greenhouse Gas Inventory	6	90	90	0
MT70142	Graduation Special Topic	4	120	0	120
Specialization: Health, Safety and Environment					
Professional internship, graduation internship		***8***			
MT70240	Graduation Internship	8	400	0	400
Graduation thesis		***10***			
MT70241	Graduation thesis	10	300	0	300
Courses in lieu of the graduation thesis		***10***			
MT70242	Risk Assessment and Environmental Health and Safety	3	45	45	0
MT70243	International Standards on Health, Safety and Environment	3	45	45	0
MT70244	Graduation Special Topic	4	120	0	120