DONG NAI TECHNOLOGY UNIVERSITY

DNTU

CURRICULUM

Major: **Environmental Engineering Technology**

Level of education: **Undergraduate**

Mode of study: **Full-time**

Duration: **4.0 years**

Degree awarded: **Bachelor**

Cohort: **Cohort 22 (2026 - 2030)**

Total accumulated credits for the program: **122**

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

SEMESTER 1: 6 accumulated credits (compulsory: 3, elective: 3)					
Course code	**Course title**	**Credits**	**Total periods**	**Theory periods**	**Practice periods**
Compulsory courses		**3**			
MT70148	Introduction to Environmental Engineering Technology	1	15	15	0
HH70003	General Chemistry	2	30	30	0
CB70411	Swimming *	1	30	0	30
TH70001	Informatics 1 *	2	45	15	30
Elective courses (choose 1 of 2 courses - 3 credits)		**3**			
TA71331	English 1	3	45	45	0
TQ71321	Chinese 1	3	45	45	0
SEMESTER 2: 18 accumulated credits (compulsory: 13, elective: 5)					

Course code	Course title	Credits	Total periods	Theory periods	Practice periods
Compulsory courses		**13**			
CB70101	Marxist-Leninist Philosophy	3	45	45	0
CB70202	Advanced Mathematics	3	45	45	0
MT70104	Environmental Engineering Chemistry	2	30	30	0
HH70004	General Chemistry Practice	1	30	0	30
MT70103	Sustainable Production and Consumption	2	30	30	0
MT70107	Environmental Toxicology	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
TH70002	Informatics 2 *	2	60	0	60
Elective courses (choose 1 of 4 courses - 1 credits) (*)		**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
Elective courses (choose 1 of 2 courses - 2 credits)		**2**			
CB70305	Communication and Relationship-Building Skills	2	30	30	0

CB70311	Occupational Safety and Engineering Environment	2	30	30	0
Elective courses (choose 1 of 2 courses - 3 credits)		**3**			
TA71332	English 2	3	45	45	0
TQ71322	Chinese 2	3	45	45	0
SEMESTER 3: 20 accumulated credits (compulsory: 11, elective: 9)					
Course code	**Course title**	**Credits**	**Total periods**	**Theory periods**	**Practice periods**
Compulsory courses		**11**			
CB70102	Marxist-Leninist Political Economy	2	30	30	0
CB70106	Introduction to Law	2	30	30	0
CB70205	Applied Statistics	3	45	45	0
CB70206	Scientific Research Methodology	2	30	30	0
MT70149	Environmental Technology Processes	2	30	30	0
Elective courses (choose 1 of 3 courses - 1 credits) (*)		**1**			
CB71413	Fitness	1	30	0	30
CB71407	Basketball	1	30	0	30
CB71414	Martial Arts	1	30	0	30
Elective courses (choose 1 of 3 courses - 2 credits) *		**2**			
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

Elective courses (choose 1 of 2 courses - 3 credits)		**3**			
TA71333	English 3	3	45	45	0
TQ71323	Chinese 3	3	45	45	0
Elective courses (choose 2 of 3 courses - 4 credits)		**4**			
MT71131	Climate Change and Adaptation Solutions	2	30	30	0
MT71105	Applied Ecology	2	30	30	0
MT71117	Environmental Quality Management	2	30	30	0
SEMESTER 4: 14 accumulated credits (compulsory: 10, elective: 4)					
Course code	**Course title**	**Credits**	**Total periods**	**Theory periods**	**Practice periods**
Compulsory courses		**10**			
CB70103	Scientific Socialism	2	30	30	0
MT70131	Air Pollution Control	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 1 of 2 courses - 9 credits)		**9**			
TA71334	English for International Certification *	9	135	135	0
TQ71324	Chinese for International Certification *	9	135	135	0
Elective courses (choose 2 of 3 courses - 4 credits)		**4**			
MT71114	Corporate Environmental Management	2	30	30	0

MT71121	Urban and Industrial Park Environmental Management	2	30	30	0
MT71133	Cleaner Production and Pollution Prevention	2	30	30	0
SEMESTER 5: 18 accumulated credits (compulsory: 10, elective: 8) Specialization: Environment and Sustainable Development					
Course code	**Course title**	**Credits**	**Total periods**	**Theory periods**	**Practice periods**
Compulsory courses		**10**			
CB70104	Ho Chi Minh Ideology	2	30	30	0
MT70105	Environmental Monitoring and Measurement	2	30	30	0
MT70113	Environmental Analysis	2	30	30	0
MT70122	Integrated Natural Resource and Environmental Management	2	30	30	0
MT70132	Management and Operation of Environmental Treatment Facilities	2	30	30	0
Elective courses (choose 4 of 5 courses - 8 credits)		**8**			
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
SEMESTER 5: 18 accumulated credits (compulsory: 8, elective: 10) Specialization: Health, Safety and Environment					
Course code	**Course title**	**Credits**	**Total periods**	**Theory periods**	**Practice periods**
Compulsory courses		**8**			
CB70104	Ho Chi Minh Ideology	2	30	30	0

MT70201	Occupational Health	2	30	30	0
MT70202	Occupational Safety and Health Law	2	30	30	0
MT70231	Industrial Hygiene	2	30	30	0
Elective courses (choose 5 of 6 courses - 10 credits)		**10**			
MT71201	Fundamentals of the Vietnam Trade Union in Relation to HSE	2	30	30	0
MT71203	Occupational Psychology	2	30	30	0
MT71216	Occupational Safety and Health Inspection	2	30	30	0
MT71219	Accident Investigation and System Safety	2	30	30	0
MT71217	Occupational Safety Risk Management	2	30	30	0
MT71215	Laboratory Safety Techniques	2	30	30	0
SEMESTER 6: 16 accumulated credits (compulsory: 8, elective: 8) Specialization: Environment and Sustainable Development					
Course code	**Course title**	**Credits**	**Total periods**	**Theory periods**	**Practice periods**
Compulsory courses		**8**			
CB70105	History of the Communist Party of Vietnam	2	30	30	0
MT70136	Environmental Auditing	2	30	30	0
MT70121	Environmental Impact Assessment	2	30	30	0
MT70140	Specialized Internship	2	100	0	0
Elective courses (choose 4 of 5 courses - 8 credits)		**8**			
MT71124	Forest Resources and Biodiversity Management	2	30	30	0
MT71132	Renewable Energy	2	30	30	0

MT71138	Environmental Microbiology	2	30	30	0
MT71139	Social Accountability Management Systems	2	30	30	0
MT71140	ISO 14001 Environmental Management System	2	30	30	0
SEMESTER 6: 16 accumulated credits (compulsory: 10, elective: 6) Specialization: Health, Safety and Environment					
Compulsory courses		**10**			
CB70105	History of the Communist Party of Vietnam	2	30	30	0
MT70232	Hazard Identification and Risk Assessment	2	30	30	0
MT70234	Industrial Fire and Explosion Prevention	2	30	30	0
MT70238	First Aid	2	30	30	0
MT70239	Specialized Internship	2	100	0	0
Elective courses (choose 3 of 4 courses - 6 credits)		**6**			
MT71208	Personal Protective Equipment	2	30	30	0
MT71204	Fire Prevention and Fighting Safety Techniques	2	30	30	0
MT71214	Industrial Lighting Engineering	2	30	30	0
MT71213	Industrial Ventilation	2	30	30	0
SEMESTER 7: 18 accumulated credits (compulsory: 6, elective: 12) Specialization: Environment and Sustainable Development					
Compulsory courses		**6**			
MT70135	Application of Informatics in Environmental Science	2	60	0	60
MT70137	Environmental Project Management	2	30	30	0
MT70139	Solid and Hazardous Waste Management	2	30	30	0
Elective courses (choose 5 of 6 courses - 12 credits)		**12**			

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
MT71120	Waste Incineration Engineering	2	30	30	0
MT71123	Application of Materials in Environmental Treatment	2	30	30	0
MT71113	Application of GIS in Environmental Science	2	30	30	0
SEMESTER 7: 18 accumulated credits (compulsory: 8, elective: 10) Specialization: Health, Safety and Environment					
Compulsory courses		**8**			
MT70233	Ergonomics for Occupational Safety and Health	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
Elective courses (choose 5 of 6 courses - 10 credits)		**10**			
MT71209	Harmful Radiation Safety	2	30	30	0
MT71211	Mechanical Safety Engineering	2	30	30	0
MT71231	Lifting and Conveying Equipment Safety Engineering	2	30	30	0
MT71232	Pressure Equipment Safety Engineering	2	30	30	0
MT71233	Community Health	2	30	30	0
MT71234	Labor Relations	2	30	30	0
SEMESTER 8: 12 accumulated credits (compulsory: 6, elective: 6) Specialization: Environment and Sustainable Development					

Course code	Course title	Credits	Total periods	Theory periods	Practice periods
Professional internship, graduation internship		***6***			
MT70151	Graduation Internship	6	300	0	300
Graduation thesis		***6***			
MT70152	Graduation thesis	6	180	0	180
Courses in lieu of the graduation thesis		**6**			
MT70153	Sustainability Reporting	3	45	45	0
MT70154	Greenhouse Gas Inventory Reporting	3	45	45	0
SEMESTER 8: 12 accumulated credits (compulsory: 6, elective: 6) Specialization: Health, Safety and Environment					
Course code	**Course title**	**Credits**	**Total periods**	**Theory periods**	**Practice periods**
Professional internship, graduation internship		***6***			
MT70251	Graduation Internship	6	300	0	300
Graduation thesis		***6***			
MT70252	Graduation thesis	6	180	0	180
Courses in lieu of the graduation thesis		**6**			
MT70242	Risk Assessment and Environmental Health and Safety	3	45	45	0
MT70243	International Standards on Health, Safety and Environment	3	45	45	0