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 20 (2024 - 2028)**

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**			
CB70303	Public Speaking Skills	1	15	15	0
MT70101	Overview of Health, Safety and Environment	1	15	15	0
MT70102	Climate Change and Adaptation Solutions	2	30	30	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
SEMESTER 2: 22 accumulated credits (compulsory: 19, elective: 0)					
Course code	**Course title**	**Credits**	**Total periods**	**Theory periods**	**Practice periods**
Compulsory courses		**22**			
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
TM70005	General Biology	2	30	30	0
HH70003	General Chemistry	2	30	30	0

HH70004	General Chemistry Practice	1	15	0	15
MT70103	Sustainable Production and Consumption	2	30	30	0
MT70201	Occupational Health	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
CB71401	Physical Education 1 - Swimming *	1	15	0	15
SEMESTER 3: 21 accumulated credits (compulsory: 19, elective: 2)					
Course code	**Course title**	**Credits**	**Total periods**	**Theory periods**	**Practice periods**
Compulsory courses		**19**			
CB70102	Marxist-Leninist Political Economy	2	30	30	0
CB70106	Introduction to Law	2	30	30	0
TA70306	Intensive English 2	4	60	60	0
CB70305	Communication and Relationship-Building Skills	2	30	30	0
CB70302	Informatics 2	2	30	15	15
XD70044	Descriptive Geometry and Technical Drawing	2	30	0	30
MT70104	Environmental Engineering Chemistry	2	30	30	0
MT70105	Environmental Monitoring and Measurement	2	30	30	0
MT70106	Environmental Monitoring and Measurement Practice	1	15	0	15
Physical Education (choose 1 of 3 courses)		**1**			
CB71402	Physical Education 2: Football	1	15	0	15
CB71403	Physical Education 2: Volleyball	1	15	0	15
CB71404	Physical Education 2: Badminton	1	15	0	15
Elective courses (choose 1 of 3 courses)		**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
SEMESTER 4: 23 accumulated credits (compulsory: 21, elective: 2)					
Course code	**Course title**	**Credits**	**Total periods**	**Theory periods**	**Practice periods**
Compulsory courses		**21**			
CB70104	Ho Chi Minh Ideology	2	30	30	0

TA70307	Intensive English 3	4	60	60	0
CB70307	Industrial Accident Prevention Skills	2	30	30	0
CB70206	Scientific Research Methodology	2	30	30	0
MT70107	Environmental Toxicology	2	30	30	0
MT70108	Environmental Technology Processes	3	30	30	0
MT70202	Environmental Law and Policy	2	30	30	0
MT70109	Renewable Energy	2	30	30	0
CT70104	AutoCAD	2	30	0	30
Elective courses (choose 1 of 3 courses)		**2**			
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
Physical Education (choose 1 of 4 courses)		**1**			
CB71405	Physical Education 3: Fitness	1	15	0	15
CB71406	Physical Education 3: Dancesport	1	15	0	15
CB71407	Physical Education 3: Basketball	1	15	0	15
CB71408	Physical Education 3: Martial Arts	1	15	0	15
SEMESTER 5: 23 accumulated credits (compulsory: 19, elective: 4)					
Course code	**Course title**	**Credits**	**Total periods**	**Theory periods**	**Practice periods**
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
MT70202	Occupational Safety and Health Law	2	30	30	0
MT70111	Environmental Microbiology	2	30	30	0
MT70112	Environmental Microbiology Practice	1	15	0	15
MT70116	Wastewater Treatment Engineering	3	45	45	0
MT70117	Solid and Hazardous Waste Management	3	45	45	0
Elective courses (choose 2 of 6 courses)		**4**			
MT71101	Environmental Hydraulics	2	30	30	0
MT71102	Environmental Biotechnology	2	30	30	0

MT71103	Cleaner Production and Pollution Prevention	2	30	30	0
MT71201	Fundamentals of the Vietnam Trade Union on HSE	2	30	30	0
MT71104	Environmental Communication	2	30	30	0
MT71105	Applied Ecology	2	30	30	0
SEMESTER 6: 23 accumulated credits (compulsory: 14, elective: 10)					
Course code	**Course title**	**Credits**	**Total periods**	**Theory periods**	**Practice periods**
Compulsory courses		**11**			
MT70113	Environmental Analysis	2	30	30	0
MT70114	Environmental Analysis Practice	2	30	0	30
MT70118	Air and Noise Pollution Control Engineering	3	45	45	0
MT70119	Project: Solid and Hazardous Waste Treatment	2	30	0	30
MT70120	Water Supply Treatment Engineering	2	45	45	0
Specialization: Environment and Sustainable Development					
Specialized elective courses (choose 6 of 13 courses)		**12**			
MT71106	Clean Technology in Environmental Treatment	2	30	30	0
MT71107	Management and Operation of Environmental Treatment Facilities	2	30	30	0
MT71108	Soil Pollution and Degradation Remediation	2	30	30	0
MT71109	Project: Soil Pollution and Degradation Remediation	2	30	0	30
MT71110	Marine and Coastal Resource Management	2	30	30	0
MT71111	Environmental Economics	2	30	30	0
MT71112	Agricultural Environmental Management	2	30	30	0
MT71113	Applied GIS in Environmental Science	2	30	30	0
MT71114	Corporate Environmental Management	2	30	30	0
MT71115	Environmental Auditing	2	30	30	0
MT71116	Environmental Project Management	2	30	30	0
MT71117	Environmental Quality Management	2	30	30	0
QT70013	Operations Management	2	30	30	0
Specialization: Health, Safety and Environment					
Specialized elective courses (choose 6 of 15 courses)		**12**			

MT71118	Occupational Safety and Health in Manufacturing Industries	2	30	30	0
XN7005	Physiology	2	30	30	0
MT71202	Ergonomics for Occupational Safety and Health	2	30	30	0
MT71203	Occupational Psychology	2	30	30	0
MT71204	Fire Prevention and Fighting Safety Techniques	2	30	30	0
MT71205	Lifting and Conveying Equipment Safety Engineering	2	30	30	0
MT71206	Pressure Equipment Safety Engineering	2	30	30	0
MT71207	Chemical Safety	2	30	30	0
MT71208	Personal Protective Equipment	2	30	30	0
MT71209	Harmful Radiation Safety	2	30	30	0
MT71210	Emergency Response	2	30	30	0
MT71211	Mechanical Safety Engineering	2	30	30	0
MT71212	Construction Safety	2	30	30	0
MT71213	Industrial Ventilation	2	30	30	0
MT71214	Industrial Lighting Engineering	2	30	30	0
SEMESTER 7: 18 accumulated credits (compulsory: 12, elective: 6)					
Course code	**Course title**	**Credits**	**Total periods**	**Theory periods**	**Practice periods**
Compulsory courses		**12**			
MT70115	Applied Informatics in Environmental Science	2	30	0	30
MT70121	Environmental Impact Assessment	2	30	30	0
MT70122	Integrated Natural Resource and Environmental Management	2	30	30	0
MT70123	Project: Water Supply and Wastewater Treatment	2	30	0	30
MT70124	International Standards on Health, Safety and Environment	2	30	30	0
MT70125	Project: Air and Noise Pollution Treatment	2	30	0	30
Specialization: Environment and Sustainable Development					
Specialized elective courses (choose 3 of 6 courses)		**6**			
MT71119	Water Supply and Drainage Networks	2	30	30	0
MT71120	Waste Incineration Engineering	2	30	30	0
MT71121	Urban and Industrial Park Environmental Management	2	30	30	0

MT71122	Environmental Modeling	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
Specialization: Health, Safety and Environment					
Specialized elective courses (choose 3 of 8 courses)		**6**			
XD71045	Building Structures	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
MT71218	Occupational Safety and Health Training Skills	2	30	30	0
MT71219	Accident Investigation and System Safety	2	30	30	0
DD70040	Basic First Aid Practice	2	30	0	30
MT71220	Project: Personal Protective Equipment	2	30	0	30
SEMESTER 8: 18 accumulated credits (compulsory: 18, elective: 0)					
Course code	**Course title**	**Credits**	**Total periods**	**Theory periods**	**Practice periods**
Professional internship, graduation internship		***8***			
MT70126	Graduation Internship	8	120	0	120
Graduation thesis		***10***			
MT70127	Graduation thesis	**10**	150	0	150
Specialization: Environment and Sustainable Development					
Courses in lieu of the graduation thesis		***10***			
MT71125	Specialized Project in Environment and Sustainable Development	4	60	0	60
MT71126	Special Topic 1	3	45	45	0
MT71127	Special Topic 2	3	45	45	0
Specialization: Health, Safety and Environment					
Courses in lieu of the graduation thesis		***10***			
MT71221	Specialized Project in Health, Safety and Environment	4	60	0	60
MT71222	Special Topic 1	3	45	45	0
MT71223	Special Topic 2	3	45	45	0