DONG NAI TECHNOLOGY UNIVERSITY

DNTU

CURRICULUM

Major:	**Automotive Engineering Technology**
Level of Education:	**Bachelor**
Mode of Study:	**Formal**
Duration of Study:	**4 Years**
Qualification Awarded:	**Full-time Regular**
Training course	**Cohort 20 (2024 - 2028)**
Total Graduation Credits:	**152**

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

SEMESTER 1: 05 accumulated credits (compulsory 05, elective: 01)					
Course code	**Course Name**	**Number of credits**	**Total number of sessions**	**Theory session**	**Practic session**
Compulsory module		**5**			
CB70303	Public Speaking Skills	1	15	15	0
70206	Key English 1	3	45	45	0
70207	Key English 2	3	45	45	0
70208	Key English 3	3	45	45	0
70209	English Speaking Community	2	30	30	0
570168	Engineering Materials	2	30	30	0
670001	Occupational Safety in Automotive Engineering	1	15	15	0
670052	Introduction to Automotive Engineering Technology	1	15	15	0
Elective Courses		**0**			
SEMESTER 2: 21 accumulated credits (compulsory: 19, elective: 02)					
Course Code	**Course Name**	**Number of Credits**	**Total Number of Sessions**	**Theory Sessions**	**Practical Sessions**
Compulsory Courses		**19**			
CB70301	Informatics 1	2	45	15	30
CB70304	Emotional Management Skills	1	15	15	0
TA70305	Intensive English 1	4	60	60	0
CB70202	Advanced Mathematics	3	45	45	0
CB70101	Marxist-Leninist Philosophy	3	45	45	0

CT70102	Engineering Drawing	2	30	30	0
CT70106	Electrical Engineering	2	45	15	30
OT70003	Internal Combustion Engine Structure	2	30	30	0
Elective Courses (Choose 1 out of 2 courses)		**2**			
CB71202	Complex Functions and Laplace Transforms	2	30	30	0
CB71201	Computational Methods	2	30	30	0
SEMESTER 3: 21 accumulated credits (compulsory: 19, elective: 02)					
Course Code	**Course Name**	**Number of Credits**	**Total Number of Sessions**	**Theory Sessions**	**Practical Sessions**
Compulsory Courses		**19**			
TA70306	Intensive English 2	4	60	60	0
CB70302	Informatics 2	2	60	0	60
CB70305	Communication and Relationship-Building Skills	2	30	30	0
CB70203	Physics	3	45	45	0
CC71001	Basic Information Technology Application Certificate Examination	1	10	10	0
CC71002	Advanced Information Technology Application Certificate Examination	1	10	10	0
CB71401	Physical Education 1 – Swimming	1	30	0	30
CB70102	Marxist-Leninist Political Economy	2	30	30	0
CT70105	Engineering Mechanics	3	45	45	0
OT70004	Automotive Frame and Chassis Structure	3	45	45	0
Elective Courses (Choose 1 out of 3 courses)		**2**			
CB71101	Environment and Sustainable Development	2	30	30	0
CB71102	Behavioral Psychology	2	30	30	0
CB71103	Medical Ethics Psychology	2	30	30	0
SEMESTER 4: 21 accumulated credits (compulsory: 17, elective: 04)					
Course Code	**Course Name**	**Number of Credits**	**Total Number of Sessions**	**Theory Sessions**	**Practical Sessions**
Compulsory Courses		**17**			
TA70307	Intensive English 3	4	60	60	0
CB70307	Industrial Accident Prevention Skills	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
CB71402	Physical Education 2	1	30	0	30
CB70103	Scientific Socialism	2	30	30	0
CB70206	Scientific Research Methods	2	30	30	0
OT70022	Welding and Sheet Metal Practice	1	30	0	30
CT70111	Basic Electronics	2	30	30	0
CT70112	Strength of Materials	2	30	30	0
OT70005	Principles of Internal Combustion Engines	2	30	30	0
Elective Courses (Choose 2 out of 5 courses)		**4**			
CB71104	Green Economy and Sustainable Development	2	30	30	0
CB71105	Vietnamese Ethnic Culture and Music	2	30	30	0
CB71106	History of World Civilization	2	30	30	0
CT70109	Engineering Tolerances and Measurement Techniques	2	30	30	0
CT70133	Automatic Control Technology	3	60	30	30
SEMESTER 5: 23 accumulated credits (compulsory: 17, elective: 06)					
Course Code	**Course Name**	**Number of Credits**	**Total Number of Sessions**	**Theory Sessions**	**Practical Sessions**
Compulsory Courses		**17**			
TA70308	Intensive English 4	4	60	60	0
CB71405	Physical Education 3 – Fitness Training	1	30	0	30
CB70104	Ho Chi Minh Ideology	2	30	30	0
CB70105	History of the Communist Party of Vietnam	2	30	30	0
OT70023	Machine Elements	2	30	30	0
OT70006	Automotive Body Electrical Systems and Automatic Control	3	60	30	30
OT70007	Internal Combustion Engine Practice	3	90	0	90
OT70008	Automotive Driving Practice	1	30	0	30
Elective Courses (Choose 3 out of 7 courses)		**6**			
CT70104	AutoCAD	2	60	0	60
OT71021	Manufacturing Process Automation	2	30	30	0
OT71022	Microprocessors	2	45	15	30

OT71023	Metal Technology	2	30	30	0
OT71024	Engineering Graphics	2	30	30	0
CT71114	Digital Logic	2	45	15	30
CT71117	Thermal Engineering	2	30	30	0
SEMESTER 6: 23 accumulated credits (compulsory: 15, elective: 08)					
Course Code	**Course Name**	**Number of Credits**	**Total Number of Sessions**	**Theory Sessions**	**Practical Sessions**
Compulsory Courses		**15**			
CB70106	Introduction to Law	2	30	30	0
OT70009	Automotive Engine Electrical Systems and Engine Control	3	60	30	30
OT70010	Automotive Theory	3	45	45	0
OT70011	Practice in Automotive Body Electrical Systems and Automatic Control	2	60	0	60
OT70012	English for Automotive Engineering 1	2	30	30	0
OT70013	Automotive Chassis Practice	3	90	0	90
Elective Courses (Choose 4 out of 8 courses)		**8**			
OT71003	Diesel Engine Practice	2	60	0	60
OT71004	Gasoline Engine Practice	2	60	0	60
OT71005	Structural Analysis of Internal Combustion Engines	2	30	30	0
OT71006	Artificial Intelligence Applications in Automotive Engineering	2	45	15	30
OT71008	Informatics Applications in Automotive Engineering	2	60	0	60
OT71009	Hydraulic and Pneumatic Systems	2	45	15	30
OT71010	Production Management	2	30	30	0
OT70025	Automotive Comfort Systems	2	45	15	30
SEMESTER 7: 22 accumulated credits (compulsory: 12, elective: 10)					
Course Code	**Course Name**	**Number of Credits**	**Total Number of Sessions**	**Theory Sessions**	**Practical Sessions**
Compulsory Courses		**10**			
OT70015	Electrical Machines and Power Electronics	3	60	30	30
OT70014	Internal Combustion Engine Course Project	1	15	15	0
OT70016	Automotive Structural Analysis	2	30	30	0

OT70017	Electric Vehicles	2	45	15	30
OT70018	Hybrid Vehicles	2	45	15	30
OT70019	Practice in Engine Electrical Systems and Engine Control	2	60	0	60
Elective Courses (Choose 5 out of 10 courses)		**10**			
OT71007	Battery Management and Charging Systems for Electric Vehicles	2	45	15	30
OT71011	Automotive Diagnostics	3	75	15	60
OT71012	Automotive Electrical and Electronics Topics	2	45	15	30
OT71013	Automotive Assembly Technology	2	30	30	0
OT71015	Automatic Transmissions	2	45	15	30
OT71016	New Energy and Energy Management in Automobiles	2	30	30	0
OT71017	Automotive Maintenance and Repair Practice	2	60	0	60
OT71018	English for Automotive Engineering 2	2	30	30	0
OT71019	Motorcycle Technology Practice	1	30	0	30
OT71020	Automotive Bodywork Practice	1	30	0	30
SEMESTER 8: 15 accumulated credits (compulsory: 16, elective: 01)					
Course Code	**Course Name**	**Number of Credits**	**Total Number of Sessions**	**Theory Sessions**	**Practical Sessions**
Professional Internship and Graduation Internship		***8***			
OT70021	Engineering Internship	8		120	0
Graduation Thesis		***8***			
OT70020	Engineering Graduation Thesis	8		120	0