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: **Engineer**

Academic Cohort: **Cohort 21 (2025–2029)**

Total Accumulated Credits: **152**

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

SEMESTER 1: 4 accumulated credits (compulsory: 4, elective: 0)					
Course Code	**Course Name**	**Number of credits**	**Total number of sessions**	**Theory session**	**Practic session**
Compulsory Courses		**4**			
CB70303	Public Speaking Skills	1	15	15	0
CB70107	DNTU beginning (*)	1	15	15	0
TN70020	Introduction to AI (*)	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 TN70020 (*)	2	30	30	0
CT70113	Engineering material	2	30	30	0
OT70002	Introduction to Automotive Engineering	1	15	15	0

SEMESTER 2: 21 accumulated credits (compulsory: 19 elective: 2)					
Course Code	**Course Name**	**Number of credits**	**Total number of sessions**	**Theory session**	**Practic session**
Compulsory Courses		**19**			
TH70001	Informatics 1	2	45	15	30
CB70304	Emotional Regulation Skills	1	15	15	0

TA70305	Intensive English 1	4	60	60	0
CB70202	Advanced Mathematics	3	45	45	0
CB70101	Philosophy of Marxism and Leninism	3	45	45	0
CT70102	Technical drawing	2	30	30	0
CT70106	Electrical engineering	2	45	15	30
OT70003	Structure of internal combustion engine	2	30	30	0
CB70401	National Defense Education - 1rd Course (*)	3	45	45	0
CB70402	National Defense Education - 2rd Course (*)	2	30	30	0
CB70403	National Defense Education - 3rd Course (*)	1	30	0	30
CB70404	National Defense Education - 4rd Course (*)	2	60	0	60
CB70411	Swimming (*)	1	30		30
Elective Courses		**2**			
CB71201	Computational mathematics	2	30	30	0
CB71202	Complex Functions and Laplace Transforms	2	30	30	0
Physical Education (Choose 2 courses) *					
CB71412	Football	1	30		30
CB71403	Volleyball	1	30		30
CB71404	Badminton	1	30		30
CB71410	Pickleball	1	30		30
CB71413	Fitness	1	30		30
CB71406	Dancesport	1	30		30
CB71407	Basketball	1	30		30
CB71414	Martial arts	1	30		30
SEMESTER 3: 20 accumulated credits (compulsory: 18, elective: 2)					

Course Code	Course Name	Number of credits	Total number of sessions	Theory session	Practic session
Compulsory Courses		**18**			
TA70306	Intensive English 2	4	60	60	0
TH70002	Informatics 2	2	60	0	60
CB70305	Communication and Relationship Building Skills	2	30	30	0
CB70203	Physics	3	45	45	0
CB70102	Political Economics of Marxism and Leninism	2	30	30	0
CT70105	Mechanical theory	3	45	45	0
OT70005	Principle of internal combustion engine	2	30	30	0
Elective Courses		**2**			
CB71101	Environment and sustainable development	2	30	30	0
CB71102	Behavioral psychology	2	30	30	0
SEMESTER 4: 23 accumulated credits (compulsory: 21, elective: 2)					
Course Code	**Course Name**	**Number of credits**	**Total number of sessions**	**Theory session**	**Practic session**
Compulsory Courses		**21**			
TA70307	Intensive English 3	4	60	60	0
CB70307	Negotiation skills	2	30	30	0
CB70103	Scientific Socialism	2	30	30	0
CB70206	Scientific research methods	2	30	30	0
CT70165	Welding Practice	1	30	0	30
CT70111	Basic electronics	2	30	30	0
CT70112	Strength of materials	2	30	30	0
OT70048	Internal combustion engine practice	3	90	0	90
OT70004	Automotive frame and chassis structure	3	45	45	0

Elective Courses		**2**			
CB71104	Green economy and sustainable development	2	30	30	0
CB71105	Vietnamese traditional music and culture	2	30	30	0
CB71106	History of World Civilizations	2	30	30	0
SEMESTER 5: 23 accumulated credits (compulsory: 17 elective: 6)					
Course Code	**Course Name**	**Number of credits**	**Total number of sessions**	**Theory session**	**Practic session**
Compulsory Courses		**17**			
TA70308	Intensive English 4	4	60	60	0
CB70104	Ho Chi Minh Ideology	2	30	30	0
CB70105	History of Vietnamese Communist Party	2	30	30	0
CT70166	Machine elements	2	30	30	0
OT70040	Body electrical system and automatic control in Automotive	3	45	45	0
OT70051	Automobile chassis practice	3	90	0	90
OT70049	Practice in driving car	1	30	0	30
Elective Courses		**6**			
CT70109	Tolerances & Measuring Technique	2	30	30	0
CT70162	Automatic control technology	2	2	30	0
CT70104	Autocad	2	60	0	60
CT71251	Automation in Manufacturing process	2	30	30	0
DT71235	Microprocessor	2	45	15	30
CT71118	Metal Technology	2	30	30	0
SEMESTER 6: 21 accumulated credits (compulsory:13, elective: 8)					
Course Code	**Course Name**	**Number of credits**	**Total number of sessions**	**Theory session**	**Practic session**
Compulsory Courses		**13**			

CB70106	Introduction of Laws	2	30	30	0
OT70041	Engine electrical and engine control systems on Automobile	3	45	45	0
OT70010	Automobile theory	3	45	45	0
OT70050	Practice the vehicle's electrical system and automatic control in Automobile	3	90	0	60
CB70309	Effective and Creativity Thinking Skills	2	30	30	0
OT70047	Artificial intelligence applied to Automotive Engineering	2	45	15	30
Elective Courses		**8**			
OT71040	Practice Diesel engines	2	60	0	60
OT71041	Practice gasoline engines	2	60	0	60
OT71005	Internal combustion engine structural Computaion	2	30	30	0
OT710030	Applying SolidWorks Software to Automotive Design	2	60	0	60
OT71009	Hydraulic pneumatic system	2	45	15	30
OT71050	Production management	2	30	30	0
OT71038	Car comfort system	2	45	15	30
OT71052	Practical Training on Electric Power Steering	2	60	0	60
SEMESTER 7: 22 accumulated credits (compulsory: 12 elective: 10)					
Course Code	**Course Name**	**Number of credits**	**Total number of sessions**	**Theory session**	**Practic session**
Compulsory Courses		**12**			
DT70219	Electrical machines and power electronics	3	60	30	30
OT70014	Project for Internal combustion engine course	1	15	15	0
OT70016	Automotive Structural Computaion	2	30	30	0
OT70017	Electric Automobile	2	45	15	30
OT70018	Hybrid Car	2	45	15	30

OT70019	Practice engine electrical systems and engine control	2	60	0	60
Elective Courses		**10**			
OT71035	Battery management and charging system on electric vehicles	2	45	15	30
OT71033	Automobile Diagnostics	3	90	0	90
OT71013	Automobile assembly technology	2	30	30	0
OT71032	Automatic transmission	2	60	0	60
OT71016	New energy and energy management in automobiles	2	30	30	0
OT71051	Practice Automobile maintenance and repair	3	90	0	90
OT71043	Practicing motorbike techniques	1	30	0	30
OT71044	Practice frame and body automobile	1	30	0	30
OT71036	Computer-Aided Simulation and Calculation in Automotive Engineering	2	60	0	60
OT71034	Automotive Electronic Circuit Design	2	60	0	60
SEMESTER 8: 18 accumulated credits (compulsory: 18, elective: 01)					
Course Code	**Course Name**	**Number of credits**	**Total number of sessions**	**Theory session**	**Practic session**
Professional and Graduation Internship		***8***			
OT70052	Engineer internship	8	480	0	0
Graduation Thesis		***10***			
OT70043	Engineering graduate thesis	10	135	15	0
Graduation Thesis Replacement Courses		***10***			
OT70046	Automotive Engineering Project	4	120	0	120
OT70045	Advanced Automotive Electrical and Electronic Systems	3	90	0	90
OT70044	Automotive Service and Business Management	3	45	45	0