



### CREDIT BASED CURRICULUM

(Pursuant to the decision: 3000/QD-DHNL-DT, November -24-2014 of President)

Credit based Training System: Formal Undergraduate (Full-time)

Faculty : Faculty of Engineering and Technology

Discipline : Heat and Refrigeration Engineering Technology

Major: Heat and Refrigeration Engineering Technology

Minimum credits : 135 Credits

Minimum GPA: 2.0

No	Module	English subjects	Credits	Total Number	Theory	Practice	Internship	Project	Thesis	Year	SM	Prior study	Prerequisite	Concurrent
<b>I. Fundamental knowledge :</b>														
<i>I.1 Required subjects</i>														
1	200106	Phylosophy of Marxism and Leninism	5.0	75.0	75.0	0.0	0	0.0	0.0	1	1			
2	202108	Advanced Mathematics A1	3.0	45.0	45.0	0.0	0	0.0	0.0	1	1			
3	202201	General Physics 1	2.0	30.0	30.0	0.0	0	0.0	0.0	1	1			
4	202501	Physical Education 1	1.0	45.0	0.0	45.0	0	0.0	0.0	1	1			
5	202622	General Law	2.0	30.0	30.0	0.0	0	0.0	0.0	1	1			
6	213603	English 1	4.0	60.0	60.0	0.0	0	0.0	0.0	1	1			
7	200201	Military training (theory)	3.0	45.0	45.0	0.0	0	0.0	0.0	1	2			
8	200202	Military training (practice)	3.0	90.0	0.0	90.0	0	0.0	0.0	1	2			
9	202109	Advanced Mathematics A2	3.0	45.0	45.0	0.0	0	0.0	0.0	1	2			
10	202202	Physics Experiments 1	1.0	30.0	0.0	30.0	0	0.0	0.0	1	2			
11	202206	General Physics 2	2.0	30.0	30.0	0.0	0	0.0	0.0	1	2			
12	202502	Physical Education 2	1.0	45.0	0.0	45.0	0	0.0	0.0	1	2			
13	213604	English 2	3.0	45.0	45.0	0.0	0	0.0	0.0	1	2	213603		
14	200104	History of the Communist's Party of Vietnam	3.0	45.0	45.0	0.0	0	0.0	0.0	2	1			
15	202110	Advanced Mathematics A3	3.0	45.0	45.0	0.0	0	0.0	0.0	2	1	202108 202109		
16	214103	General Informatics	3.0	60.0	30.0	30.0	0	0.0	0.0	2	1			
17	200107	Ho Chi Minh Ideology	2.0	30.0	30.0	0.0	0	0.0	0.0	2	2			
18	202121	Probability and Statistics	3.0	45.0	45.0	0.0	0	0.0	0.0	2	2	202110		
<b>Total</b>			<b>47.0</b>	<b>840.0</b>	<b>600.0</b>	<b>240.0</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>					

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<i>I.2 Elective subject - completed 0101/accumulated at least 2 credits : 2 credits</i>														
1	208438	Project Management	2.0	30.0	30.0	0.0	0	0.0	0.0	1	2			
2	208416	Principles of Management	2.0	30.0	30.0	0.0	0	0.0	0.0	2	1			
3	202620	Communication skills	2.0	30.0	30.0	0.0	0	0.0	0.0	3	1			
<b>Total</b>			<b>6.0</b>	<b>90.0</b>	<b>90.0</b>	<b>0.0</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>					
<b>II. Fundamental specialized knowledge :</b>														
<i>II.1 Required subjects</i>														
1	207108	Descriptive geometry & Engineering drawing	3.0	45.0	45.0	0.0	0	0.0	0.0	1	1			
2	207103	Basic Theory of Mechanics	3.0	45.0	45.0	0.0	0	0.0	0.0	1	2			
3	207121	Material & Metal Technology	2.0	30.0	30.0	0.0	0	0.0	0.0	1	2			
4	207111	Principles of Machine	2.0	30.0	30.0	0.0	0	0.0	0.0	2	1	207103		
5	207113	Material & Metal Technology	3.0	45.0	45.0	0.0	0	0.0	0.0	2	1	207103		
6	207220	Fundamentals of Thermodynamics	3.0	45.0	45.0	0.0	0	0.0	0.0	2	1			
7	207234	Fluids Mechanics	3.0	45.0	45.0	0.0	0	0.0	0.0	2	1			
8	207100	Machine Component Design	3.0	45.0	45.0	0.0	0	0.0	0.0	2	2	207113		
9	207109	Basic Electrical Engineering	2.0	45.0	15.0	30.0	0	0.0	0.0	2	2			
10	207110	Basic Electronics	2.0	45.0	15.0	30.0	0	0.0	0.0	3	1	202202		
11	207504	Pneumatic & Hydraulic System	3.0	60.0	30.0	30.0	0	0.0	0.0	4	1			
<b>Total</b>			<b>29.0</b>	<b>480.0</b>	<b>390.0</b>	<b>90.0</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>					

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