



CREDIT BASED CURRICULUM

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

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

Faculty : Faculty of Information Technology

Discipline : Information Technology

Major: Information 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
I. Fundamental knowledge :														
<i>I.1 Required subjects</i>														
1	202108	Advanced Mathematics A1	3.0	45.0	45.0	0.0	0	0.0	0.0	1	1			
2	202109	Advanced Mathematics A2	3.0	45.0	45.0	0.0	0	0.0	0.0	1	1			
3	202206	General Physics 2	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	214201	Introduction to Computer Science	3.0	60.0	30.0	30.0	0	0.0	0.0	1	1			
6	200106	Phylosophy of Marxism and Leninism	5.0	75.0	75.0	0.0	0	0.0	0.0	1	2			
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	202110	Advanced Mathematics A3	3.0	45.0	45.0	0.0	0	0.0	0.0	1	2			
10	202502	Physical Education 2	1.0	45.0	0.0	45.0	0	0.0	0.0	1	2			
11	213603	English 1	4.0	60.0	60.0	0.0	0	0.0	0.0	1	2			
12	202121	Probability and Statistics	3.0	45.0	45.0	0.0	0	0.0	0.0	2	1	202110		
13	213604	English 2	3.0	45.0	45.0	0.0	0	0.0	0.0	2	1			
14	202622	General Law	2.0	30.0	30.0	0.0	0	0.0	0.0	2	2			
15	200104	History of the Communist's Party of Vietnam	3.0	45.0	45.0	0.0	0	0.0	0.0	3	1			
16	200107	Ho Chi Minh Ideology	2.0	30.0	30.0	0.0	0	0.0	0.0	3	2			
Total			44.0	780.0	570.0	210.0	0	0.0	0.0					



II. Fundamental specialized knowledge :														
<i>II.1 Required subjects</i>														
1	214321	Basic Programming	4.0	75.0	45.0	30.0	0	0.0	0.0	1	1			
2	214231	Computer Architecture	2.0	30.0	30.0	0.0	0	0.0	0.0	1	2			
3	214331	Advanced programming	4.0	75.0	45.0	30.0	0	0.0	0.0	1	2	214321		
4	214241	Computer Networks	3.0	45.0	45.0	0.0	0	0.0	0.0	2	1			
5	214242	Introduction to Operating System	3.0	60.0	30.0	30.0	0	0.0	0.0	2	1			

CREDIT BASED CURRICULUM

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

Faculty : Faculty of Information Technology

Discipline : Information Technology

Major : Information Technology

Minimum credits : 135 Credits

Minimum GPA: 2.0

Page 2

No	Module	English subjects	Credits	Total Number	Theory	Practice	Internship	Project	Thesis	Year	SM	Prior study	Prerequisite	Concurrent
6	214441	Data Structures and Algorithm	4.0	75.0	45.0	30.0	0	0.0	0.0	2	1	214331		
7	214251	Advanced Operating System	3.0	60.0	30.0	30.0	0	0.0	0.0	2	2	214242 214331		
8	214351	Graph theory	4.0	75.0	45.0	30.0	0	0.0	0.0	2	2	214331		
9	214352	Object - oriented Design	4.0	75.0	45.0	30.0	0	0.0	0.0	2	2	214331		
10	214442	Introduction to Databases	4.0	75.0	45.0	30.0	0	0.0	0.0	2	2			
11	214252	Network programming	4.0	75.0	45.0	30.0	0	0.0	0.0	3	1	214241 214331 214442		
12	214361	Graphic User Interface Design	3.0	60.0	30.0	30.0	0	0.0	0.0	3	1	214331		
13	214461	Analysis and Design Information System	4.0	75.0	45.0	30.0	0	0.0	0.0	3	1	214352 214442		
14	214462	Web Application Programming	4.0	75.0	45.0	30.0	0	0.0	0.0	3	1	214241 214331		
15	214370	Introduction to Software Engineering	4.0	75.0	45.0	30.0	0	0.0	0.0	3	2	214352		
16	214463	Artificial Intelligence	4.0	75.0	45.0	30.0	0	0.0	0.0	3	2	214331		
Total			58.0	1080.0	660.0	420.0	0	0.0	0.0					
III. Specialized knowledge :														
<i>III.1 Elective subject - completed 0101/accumulated at least 2 credits : 10 credits</i>														
1	214282	Advanced Computer Networks	4.0	75.0	45.0	30.0	0	0.0	0.0	3	2	214241		
2	214451	Database Management Systems	3.0	60.0	30.0	30.0	0	0.0	0.0	3	2	214442		
3	214271	Network and System Administration	3.0	60.0	30.0	30.0	0	0.0	0.0	4	1	214242 214241		
4	214275	Network Security	3.0	45.0	45.0	0.0	0	0.0	0.0	4	1	214241		
5	214379	Software Quality Assurance and Testing	4.0	75.0	45.0	30.0	0	0.0	0.0	4	1	214370		
6	214383	Software project management	3.0	60.0	30.0	30.0	0	0.0	0.0	4	1	214370		
7	214464	Information System Security	3.0	60.0	30.0	30.0	0	0.0	0.0	4	1	214462		
8	214483	E-Commerce	3.0	60.0	30.0	30.0	0	0.0	0.0	4	1	214442 214462		