

BACHELOR PROGRAM IN INFORMATION TECHNOLOGY

Number of credits required: 130

Semester	Subjects	Number of credit
1 19 credits	Core	19
	Basic Principles of Marsism-Leninism 1	2
	Basic Informatics	3
	English 1	3
	Physical Education 1 – Athletics	
	General Physics A	4
	Linear Algebra	3
	Introduction to Programming	2
	Fundamentals of Law	2
2 19 credits	Core	17
	Basic Principles of Marsism-Leninism 2	3
	English 2	4
	Physical Education 2	
	Programming Techniques	3
	Mathematical Analysis	4
	Computer Architectures	3
	Elective	2
	General Accounting	2
	General Economics	2
	Principles of Management	2
3 18 credits	Core	13
	Ho Chi Minh Ideology	2
	Physical Education 3	
	Operating Systems	3
	Probability and Statistics	3
	Data Structures and Algorithms	3
	Research Methodology	2
	Elective	5
	Communication Skills	2
	Practice for Vietnamese Texts	2
	Optimizing	3
	Electrical Engineering	3
Electronics Engineering	3	
4 19 credits	Core	16
	Revolutionary Strategies of Vietnam Communist Party	3
	Discrete Mathematics	4
	Computer Networks	3
	Relational Database	3
	Object-Oriented Programming	3
	Elective	3
	Algorithms Analysis and Design	3

	Assembly Programming	3
	Computational Statistics	3
5 15 credits	Core	12
	Computer Graphics	3
	Network Administration	3
	Systems Analysis and Design	3
	Database Management Systems	3
	Elective	3
	Image Processing	3
	C# Programming Language	3
	Applied Graphics	3
6 15 credits	Core	15
	Artificial Intelligence	3
	Linux Operating System	3
	Web Designing and Programming	3
	Applied Java Programming	3
	Occupation Practicum	3
7 15 credits	Elective Group	15
	<i>Software Engineering Group</i>	
	Software Engineering	3
	UML Analysis and Design	4
	Software Project Management	3
	Design Patterns	3
	Software Testing	2
	<i>Computer Networks Group</i>	
	Network Security	3
	Network Design & Implement	4
	Network Programming	3
	Evaluation of Network Performance	3
	Multimedia Communications	2
	<i>Information System Group</i>	
	XML and Applications	3
	Distributed Database Systems	3
	Data Mining	3
Information Security	3	
Web technologies and online services	3	
8 10 credits	Core	10
	Geography Information System	3
	Open source software development	3
	General Practicum	4