BACHELOR PROGRAM IN CHEMICAL ENGINEERING

Number of credits required: 130

Semester	Subject code	Subject	Number of Credits
	Core subjects	5	14
		Communication Skills	2
		Analysis B	3
		General Physics B	3
Semester		General Chemistry	3
1		Foreign language 1	3
(18 credits)	Elective subj	4	
,		Fundamentals of Legislation	2
		Writing Scientific Documents in Vietnamese	2
		Management Theory	2
		History of Economic Theories	2
	Core subjects	•	16
		Fundamental principles of Marxism-Leninism 1	2
		Introduction to Chemical Engineering	3
0		Physical Chemistry	4
Semester 2		Foreign language 2	4
(18		General Informatics	3
credits)		Physical Education 1	(2)
	Elective subj		2
	Licotive subj	Linear Algebra B	2
		Mathematical Methods	2
	Core subjects		14
	Ooic Subjects	Fundamental principles of Marxism-Leninism 2	3
			3
		Inorganic Chemistry	3
Semester 3 (17 credits)		Organic Chemistry	2
		Engineering Drawing Probability and Statistics	3
	Flootius subi	Physical Education 2 and 3 (Elective)	(4)
	Elective subj	Ecology	3
		Electric and Electronic Engineering	3
	Coro cubicati	<u> </u>	13
	Core subjects	I	
Semester 4 (16 credits)		Fundamental Economics	3
		Research Methodology Analytical Chemistry	2
			3
		Mechanical Processes	2
		Heat Transfer	3

	Elective subjects		
	Experiment Analysis and Design	3	
	Colloid Chemistry	3	
	AutoCAD	3	
Semester 5 (15 credits)	Core subjects		
	Ho Chi Minh's Ideology	2	
	Modern Methods in Analytical Chemistry	3	
	Mass Transfer	3	
	Chemical Reaction Engineering	2	
	Fundamentals of Chemical Equipment Design	2	
	Elective subjects		
	Informatics Applied in Chemical Engineering	3	
	English for Special Purposes	3	
	Core subjects	14	
	Unit Operation Experiments	2	
	Unit Operation Project	1	
	Chemistry and Physical Chemistry of Polymers	4	
Semester	Petroleum Processing Technology	4	
6 (17	Chemistry of Natural Products	3	
credits)	Elective subjects		
,	Plastic Engineering	3	
	Polymer Processing	3	
	Organic Synthesis in Petrochemistry	3	
	Technology of Natural Colorant, Flavor and Fragrance	3	
	Core subjects	16	
	Revolutionary Strategies of Vietnamese Communist		
	Party	3	
	Composite Material Technology	3	
Semester	Gas Processing Technology	2	
7	Techniques for Isolation and Purification of Natural	3	
(19	Products		
credits)	Specialized Project	1	
	Professional Practicum (6 weeks)	4	
	Elective subjects	3	
	Storage and transport of petroleum products	3	
	Natural Antioxidants	3	
	Final project/Alternative subjects	10	
	A. Final project (4 months)		
Semester	B. Alternative subjects	10	
8	Core subjects	4	
(10 credits)	Production Practicum (6 weeks)	4	
	Elective subjects	6	
	Green Chemistry	2	
	Nanotechnology	2	

	Fundamentals of Chemical Plant Design	2
	Occupational Safety and Industrial Environmental	2
	Sanitation	
	Chemical Environmental Engineering	4
Supplementary	subjects (organized upon students' request)	
	Dyeing and Printing Techniques	3
	Binder and Coating Technology	3
	Biodegradable Polymer	3
	Polymer Recycling	3
	Mineral Technology	3
	Ceramic and Glass Technology	3
	Electrochemical Technology	3
	Corrosion and Material Protection Engineering	3
	Principles of Marketing	2
	Human Resource Management	2