

BACHELOR PROGRAM IN HEAT AND REFRIGERATION ENGINEERING

Number of credits required: 130

<i>Semester</i>	<i>Subject code</i>	<i>Subject</i>	<i>Number of credits</i>
I 18 credits		Core subjects	16
		Fundamental principles of Marxism-Leninism 1	2
		English 1	3
		Linear Algebra	3
		General Chemistry	3
		Descriptive Geometry and Eng. Drawing	3
		General Legislation	2
		Physical Education 1	2
		Military Education and Training - Security 1	3
		Elective subjects: 4 credits required	2
		Fundamentals of Psychology	2
		Introduction to engineering	2
		General Logistics	2
II 18 credits		Core subjects	18
		Fundamental principles of Marxism-Leninism 2	3
		General Physics A	4
		Analysis	4
		English 2	4
		Applied Mechanics	3
		Physical Education 2	2
	Military Education and Training - Security 2	3	
	Elective subjects	0	
III 18 credits		Core subjects	16
		Ho Chi Minh's Ideology	2
		General informatics	3
		Electrical Engineering	2
		Mechanism - Machine Design	3
		Engineering Thermodynamics	3
		Safety Techniques and Environment	3
		Physical Education 3	2
		Elective subjects	2

		Communication Skill	2
		Writing Scientific Documents in Vietnamese	2
IV 17 credits		Core subjects	14
		Fluid Machine & Equipment	2
		Electronic Engineering	3
		Heat Transfer and Heat Exchange Equipments	4
		Method for separating materials by using the thermal + Project	3
		Mechanical Engineering Practicum in Lab (5 weeks)	2
		Elective subjects	3
		Probability and Statistics	3
		Optimization methods	3
V 17 credits		Core subjects	17
		Revolutionary Policies of Vietnamese Communist Party	3
		Research Methodology	2
		Basic Refrigeration Techniques	3
		Supplying water and gas in the civil constructions	3
		Application of Mechatronics	2
		Burning Engineering and Industrial boiler + Project	4
		Elective subjects	0
VI 15 credits		Core subjects	15
		Air-conditioning Techniques + Project	4
		Operating & Repairing of Ref. Stations and Air - Conditioning	3
		Applied Refrigeration Engineering + Project	4
		Subject Practicum (8 weeks)	4
		Elective subjects	0
	Core subjects	12	
VII 17 credits		Turbine and power plants	3
		Renewable energy	3
		Business Administration	3
		Ref. and electric apprentice in Lab (6 week)	3
		Elective subjects	5
		Electrical uses in industrial and household appliances	3
		Pneumatic and hydraulic control system	3
		Embedded system	2

		Computer science in Ref. use	2
		Simulation (model) computer technology	2
VIII 10 credits		Core subjects	0
		Elective subjects	10
		Air-conditioning and ref. control system	3
		Energy conversation, management and audit	3
		Construction drawings	3
		Waste gas and dust treatment method	3
		Fluid mechanic	3
		Ref. Construction plants	2
		Industrial Furnace	2
		Food processing equipment	2
		Power engine	2
		Marketing	2
		Project administration	2
	Total		

