

BACHELOR PROGRAM IN MECHANICAL ENGINEERING TECHNOLOGY

Number of credits required: 130

<i>Semester</i>	<i>Subject code</i>	<i>Subject</i>	<i>Number of credits</i>
I 19 credits		Basic principles of Marxism-Leninism 1	2
		Basic Informatics	3
		Calculus	4
		V General Physics A	4
		General Chemistry	3
		Foreign Language 1(English)	3
		Physical Education 1 - Athletics	2
		Party's military strategies and military – security tasks	3
II 19 credits		Core subjects	15
		Foreign Language 2 (English)	4
		Introduction to Engineering	2
		Descriptive Geometry and Engineering Drawing	3
		Linear Algebra	3
		Theoretical Mechanics	3
		Physical Education 2	2
		Physical Education 3	2
		Military tactics and techniques	3
		Elective subjects 1	4
		Fundamentals of Law	2
		Communication Skills	2
		Practice for Vietnamese Texts	2
		General Logics	2
	General of Psychology	2	
III 17 credits		Core subjects	14
		Basic principles of Marxism-Leninism 2	3
		Electrical Engineering	2
		Strength of Materials	3
		Engineering Materials	3
		Theory of Mechanisms and Machines	3

		Elective subjects 2	3	
		Experimental Design and Analysis	3	
		Probability theory and mathematical statistics	3	
IV		Core subjects	13	
		Thermal engineering	3	
		Tolerances, Fits, and Engineering Metrology	3	
		Fundamentals of Machine Design and Project	4	
		Mechanical Workshop Practice (6 weeks)	3	
	15 credits		Elective subjects 3	2
			Numerical Methods in Mechanics	2
			Dynamics of Mechanical System	2
V		Core subjects	15	
		Ho Chi Minh Ideology	2	
		Research Methodology	2	
		Pneumatic and Hydraulic Control System	3	
		Operation Management	3	
	18 credits		Casting, Welding and Forming	3
			Industrial Electronics	2
			Elective subjects 4	3
		Products Design And Development	3	
		Optimal Design in Mechanical Engineering	3	
		Ergonomics	3	
VI		Core subjects	14	
		Revolutionary strategies of Vietnam Communist Party	3	
		Fundamentals of Manufacturing Technology	4	
		CAD/CAE Technology	4	
		Safety Techniques and Environment	3	
	17 credits		Elective subjects 5	3
			CNC Machines and Industrial Robots	3
			Mechatronic systems	3
		Core subjects	12	
		Industrial Maintenance	2	
		Seafood Processing and Preservation Equipment and Project	4	
		Automation in Manufacturing	3	

VII 15 credits		Specialized Practicum (6 weeks)	3
		Elective subjects 6	3
		Boiler and Heating Systems	3
		Ventilation and Air-Conditioning	3
		Mechanical Workshop Design	3
VIII 10 credits		Core subjects	3
		Equipment for Aquaculture and Fishing and Project	3
		Elective subjects 7	2
		Heat Exchangers	2
		Internal Combustion Engines	2
		Elective subjects 8	3
		Agricultural and forest product processing equipment	3
		Food Plant Design	3
		Elective subjects 9	2
		Quality Assurance	2
	Design for Manufacturability	2	
Total			130