BACHELOR PROGRAM IN MANUFACTURING ENGINEERING

Number of credits required: 130

Semester	Subject code	Subject	Number of credits
		Basic principles of Marxism-Lenninism 1	2
		Basic Informatics	3
		Calculus	4
		V General Physics A	4
Ι		General Chemistry	3
19 credits		Foreign Language 1(English)	3
		Physical Education 1 - Athletics	2
		Party's military strategies and military – security tasks	3
		Core subjects	15
		Foreign Language 2 (English)	4
		Introduction to Engineering	2
		Descriptive Geometry and Engineering Drawing	3
п		Linear Algebra	3
		Theoretical Mechanics	3
19 credits		Physical Education 2	2
		Physical Education 3	2
		Military tactics and techniques	3
		Elective subjects	4
		Fundamentals of Law	2
		Communication Skills	2
		Practice for Vietnamese Texts	2
		General Logics	2
		General of Psychology	2
		Core subjects	16
		Basic principles of Marxism-Lenninism 2	3
		Electrical Engineering	2
		Strength of Materials	3

III	Engineering Materials	3
	Mechanical Engineering Drawing	2
19 credits	Theory of Mechanisms and Machines	3
	Elective subjects	3
	Experimental Design and Analysis	3
	Probability theory and mathematical statistics	3
	Core subjects	12
IV	Theory of Metal Cutting	2
	Tolerances, Fits, and Engineering Metrology	3
14 credits	Fundamentals of Machine Design and Project	4
	Mechanical Workshop Practice	3
	Elective subjects	2
	Dynamics of Mechanical System	2
	Numerical Methods in Mechanics	2
	Core subjects	13
	Ho Chi Minh Ideology	2
	Research Methodology	2
V	Machine Tools	3
	Jigs and Fixtures	2
19 credits	Machining Processes	4
	Elective subjects	6
	Fluid Engineering	3
	Industrial Machinery	3
	Thermal Engineering	3
	Mechatronic systems	3
	Core subjects	14
	Revolutionary strategies of Vietnam Communist Party	3
VI	Casting, Welding and Forming	3
	Fundamentals of Manufacturing Engineering and Project	4
17 Credits	CAD/CAM Technology	4
	Elective subjects	3

	Mold Design for Plastic products	3
	Advanced Machining Processes	3
	Machine Tools Maintenance	3
	Core subjects	10
	Safety Techniques and Environment	3
	CNC Technology and Project	4
	Specialized Practicum	3
VII	Elective subjects	3
	Cutting Tools Design	3
13 credits	Rapid Prototyping Technology	3
	Surface Engineering	3
	Core subjects	5
	Integrated Practicum	3
	Manufacturing System	2
VIII	Elective subjects	5
	Automation in Manufacturing	2
10 credits	Forming Technologies	2
	Business Management	3
	Quality Assurrance	3
	130	