

Course	Subject	Auditory lessons (hours)	Lab and practice (hours)	Contact hours	ECTS credits
First course	First semester				
	COMPUTER SCIENCE 1	15	30	45	5
	ENGINEERING DRAWING 1	45	45	90	9
	MATHEMATICAL ANALYSIS 1	90	0	90	9
	LINEAR ALGEBRA AND GEOMETRY	75	0	75	8
	TECHNICAL ENGLISH	30	0	30	3
	Second semester				
	CHEMISTRY	90	0	90	9
	COMPUTER SCIENCE 2	15	30	45	5
	MATHEMATICAL ANALYSIS 2	90	0	90	9
	PHYSICS 1	75	15	90	9
Second course	Third semester				
	INTRODUCTION TO MECHATRONICS	15	15	30	3
	FUNDAMENTALS OF CIRCUIT THEORY	75	15	90	9
	PHYSICS 2	75	15	90	9
	ALGORITHMS AND PROGRAMMING	30	45	75	8
	BASICS OF ELECTRONICS	45	30	75	8
	Fourth semester				
	APPLIED MECHANICS	60	30	90	9
	MATERIAL SCIENCE	30	60	90	9
	BASICS OF MECHATRONICS	0	60	60	6
	SIGNAL ANALYSIS AND PROCESSING	45	45	90	9
	Summer internship I				
	INTERNSHIP 1	0	60	60	2
Third course	Fifth semester				
	DIGITAL ELECTRONICS	15	45	60	6
	BIG DATA	30	30	60	6
	ELECTRICAL MACHINES	45	30	75	8
	THEORY AND PRACTICE OF MEASUREMENTS	30	30	60	6
	Sixth semester				
	FUNDAMENTALS OF MACHINE DESIGN	60	30	90	9
	PLC CONTROL	0	90	90	9
	SENSORS AND INSTRUMENTATION	15	30	45	5
	FLUID MECHANICS	15	30	45	5
	Summer internship II				
	INTERNSHIP 2	0	60	60	2
Fourth course	Seventh semester				
	ROBOTICS	0	90	90	9
	RAPID PROTOTYPING	0	45	45	5
	DESIGN OF MECHATRONIC SYSTEMS	30	90	120	12
	Eighth semester				
	UNDERGRADUATE PRACTICE	0	90	90	18
	GRADUATION RESEARCH (PROJECT)	0	30	30	9