

Mechatronics Department / Fourth Level

(Fall semester) / Fourth Level								
	Type	Subject	Theoretical hours	Practical hours	Units	Pre-request	Code	Notes
College requirements	Elective	Public safety	2		2		ENGE429	Compulsory for depa.
Department requirements	Compulsory	Robotics	2	2	3	Theory of machine	ROTI400	
	Compulsory	Design of machine elements II	3		3	Design of machine element I	DMEL401	
	Compulsory	Modern control systems	2	2	3	Control system	MOCS402	
	Compulsory	Graduation project I	2		2	All compulsory department requirements for the third level	ENGP403	
	Elective	Special topics in mechatronics	3		3		STME461	Student choose one
	Elective	CNC machine	3		3		CNCM462	
	Elective	Building management system	3		3		BMSY463	Student choose one
	Elective	PC interface and data acquisition	2	2	3	Microcontroller and system design	PCID464	
Total hours			16/17	4/6	19			

(Spring semester) / Fourth Level

	Type	Subject	Theoretical hours	Practical hours	Units	Pre-request	Code	Notes
University requirements	Compulsory	English language upper intermediate	2		2			
College requirements	Elective	Engineering management	2		2		ENDC425	
Department requirements	Compulsory	Mechatronics systems design	2	2	3	Control system	MSTD450	
	Compulsory	Industrial automation	2	2	3	robotics	INAU451	
	Compulsory	Graduation project II	2		2	Graduation project I	ENGP452	
	Compulsory	Artificial intelligent	2		2		ARIN453	
	Elective	Mobile robot	3		3	robotics	MROB465	Student choose one
	Elective	Intelligent control	3		3	Control system	ICON464	
Total hours			15	4	17			