

BACHELOR CURRICULUM 2.0 – MAJORS EE & AT – 2024/2025

AFTER REVISION

Major courses EE					
Code	Course	EC	Year	Q	Timeslot
2WBBO	Calculus	5	1	1	A/B/C
5EWCO	Programming and Engineering Challenge	10	1	1 & 2	A/C/E
5EPCO	Circuits	5	1	1	C
5EZAQ	Math 1	5	1	2	B
5ESFO	Signals & Systems	5	1	2	A
5EPDO	Physics for EE	5	1	3	A
5EICO	Computer Architecture	5	1	3	E
5ECDQ	Electronic Circuits 1	5	1	3	C
5EZBQ	Math 2	5	1	4	A
5EIDQ	Engineering Challenge for Venus	5	1	4	D
5ETCQ	Communication 1	5	1	4	E
5ECEQ	Electronic Circuits 2	5	2	1	C
5EPFQ	Electromagnetics 1	5	2	1	D
0LVX3Q	ITEC Ethics	5	2	2	E
5EWDQ	Electrical Power Systems for EE	5	2	2	C
5EZCQ	Math 3	5	2	3	E
5EPGQ	Introduction Photonics	5	2	3	D
4CBLW0Q	Multidisciplinary CBL	5	2	4	C/D
5ESGQ	Signal Processing	5	2	4	B
5ESHQ	Control Systems	5	2	4	E
0LVX4Q	ITEC Society	5	3	1	
5EWFQ	Electromechanics	5	3	1	
5EPBQ	Electromagnetics 2	5	3	2	
5ETDQ	Communication 2	5	3	3	

Major courses AT					
Code	Course	EC	Year	Q	Timeslot
2WBBO	Calculus	5	1	1	A/B/C
5EWCO	Programming and Engineering Challenge	10	1	1 & 2	A/C/E
5EPCQ	Circuits	5	1	1	C
5EZAQ	Math 1	5	1	2	B
5ESFO	Signals & Systems	5	1	2	A
5EPEQ	Physics for AT	5	1	3	A
5ATBQ	Spectrum of Automotive	5	1	3	D
5ECDQ	Electronic Circuits 1	5	1	3	C
5EZBQ	Math 2	5	1	4	A
5EIDQ	Engineering Challenge for Venus	5	1	4	D
5ETCQ	Communication 1	5	1	4	E
4AUB2Q	Road vehicle dynamics	5	2	1	E
5EPFQ	Electromagnetics 1	5	2	1	D
0LVX3Q	ITEC Ethics	5	2	2	E
5EWEQ	Electric Circuits Analysis	5	2	2	D
4AUB1Q	Electric and hybrid vehicle powertrains	5	2	3	C
5EICQ	Computer Architecture	5	2	3	E
4CBLW0Q	Multidisciplinary CBL	5	2	4	C/D
5AIBQ	Sensing, Computing & Actuating	5	2	4	B
5ESHQ	Control Systems	5	2	4	E
0LVX4Q	ITEC Society	5	3	1	
5EWFQ	Electromechanics	5	3	1	
5APAQ	Power Electronics	5	3	2	
5AICQ	Vehicle Networking	5	3	3	

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Electives EE & AT					
Code	Course	EC	Category	Q	Timeslot
5XEBO	Student project in EE or AU	5	2 Deepening	YEAR	X
5XSCO	DBL Automotive design project electronic differential	5	2 Deepening	1	A
5XCEO	Introduction to Sensing	5	2 Deepening	1	B
5XICO	DBL Electronic Systems Engineering	5	2 Deepening	2	A
5XPCO	Neurophysiology and neurostimulation	5	2 Deepening	2	A
5XSHO	Cognitive neuroscience	5	2 Deepening	3	D2
5XSJO	Automotive sensing	5	3 Advanced	1	B
5XTBO	Photonics	5	3 Advanced	1	E
5XSMO	MRI for the brain	5	3 Advanced	1	A
5XTAO	Telecommunications systems	5	3 Advanced	1	B
5XWCO	Energy management	5	3 Advanced	2	A
5XSLO	Fundamentals of machine learning	5	3 Advanced	2	A
5XCDO	Electronic Circuits 3	5	3 Advanced	2	A
5XIFO	Neuro computation	5	3 Advanced	2	B
5XWBO	Electric drive systems	5	3 Advanced	3	B
5XSKO	Data fusion & semantic interpretation	5	3 Advanced	3	B
5XTCO	Components in wireless technologies	5	3 Advanced	3	E
5XCCO	Biopotential and neural interface circuits	5	3 Advanced	3	A
5XSDO	Medical ultrasound	5	3 Advanced	3	E
5XPBO	Nano devices and integration	5	3 Advanced	3	C
5XSNO	Monitoring brain functions in healthcare	5	3 Advanced	3	B
5XSAO	Introduction to medical image processing	5	3 Advanced	4	A
5XWFO	CBL Wireless Energy Transfer	5	3 Advanced	4	A
5XWAO	Power system analysis and optimization	5	3 Advanced	4	E
5XWGO	Power system computation & simulation	5	3 Advanced	4	C
5XIEO	Computational modeling	5	3 Advanced	4	E

BEP EE & AT					
Code	Course	EC	Year	Q	Timeslot
5XECO	Final bachelor project (BEP)	10	3	3 & 4	X
5XEDO	Extension final bachelor project (BEP)	5	3	3 & 4	X