

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

BEFORE REVISION

Basic courses EE & AT					
Code	Course	EC	Year	Q	Timeslot
<del>2WBBO</del>	Calculus-2	5	1	1	A/B/C
<del>3NBBO</del>	Applied natural sciences	5	1	2	A/B
<del>2IABO</del>	Data analytics for engineers	5	1	3	B
<del>0SABO</del>	USE	5	1	4	A/C/E
<del>4WBBO</del>	Engineering design	5	2	1	E

Major courses EE					
Code	Course	EC	Year	Q	Timeslot
<del>5EE01</del>	Safety and health, first year instr.	0	1	1	X
<del>5ECAQ</del>	Circuits	5	1	1	E
<del>5EIAQ</del>	Computation I: hardware/software int.	5	1	1	E
<del>5ESEQ</del>	Signal processing basics (Signals I)	5	1	2	A
<del>5ECBQ</del>	Electronic circuits 1	5	1	3	E
<del>2DE2Q</del>	Mathematics I	5	1	3	E
<del>5ESBQ</del>	Systems	5	1	4	B
<del>5EPAQ</del>	Electromagnetics I	5	2	1	D
<del>5EWBQ</del>	Electrical power systems	5	2	2	B
<del>5EWAQ</del>	Electromechanics	5	2	2	E
<del>5ECCQ</del>	Electronic circuits 2	5	2	2	D
<del>5EIBQ</del>	Computation II: embedded system design	5	2	3	E
<del>5ETAQ</del>	Intro telecommunications	5	2	3	E
<del>5EPBQ</del>	Electromagnetics II	5	2	4	E
<del>5EMAQ</del>	Mathematics II	5	2	4	E
<del>5ESDQ</del>	DSP fundamentals (signals II)	5	3	1	B
<del>5ESDQ</del>	Control systems	5	3	1	C
<del>5ETBQ</del>	Communication theory	5	3	2	B

See the document 'overview transitional arrangements 2024-2025' for information about courses that are not taught anymore

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

Major courses AT					
Code	Course	EC	Year	Q	Timeslot
<del>5EE01</del>	Safety and health, first year instr.	0	1	1	X
<del>5ATAQ</del>	Spectrum of automotive	5	1	1	A&D
<del>5EIAQ</del>	Computation I: hardware/software int.	5	1	1	E
<del>5ESEQ</del>	Signal processing basics (Signals I)	5	1	2	A
<del>5ASDQ</del>	Dynamics for automotive applications	5	1	3	E
<del>2DE2Q</del>	Mathematics I	5	1	3	E
<del>5ESBQ</del>	Systems	5	1	4	B
<del>5EPAQ</del>	Electromagnetics I	5	2	1	D
<del>5EWAQ</del>	Electromechanics	5	2	2	E
<del>5XCAQ</del>	Fundamentals of electronics	5	2	2	E
<del>4AUB1Q</del>	Electric & hybrid vehicle powertrain design	5	2	3	E
<del>5APAQ</del>	Power electronics	5	2	3	D
<del>4AUB2Q</del>	Road vehicle dynamics	5	2	1	E
<del>5AIBQ</del>	Sensing computing & actuating	5	2	4	B
<del>5AICQ</del>	Vehicle networking	5	3	1	B
<del>5ESDQ</del>	Control systems	5	3	1	C
<del>2IWAQ</del>	Automotive software engineering	5	3	2	B
<del>5AIDQ</del>	DBL Auton. vehicles conquering the world	5	3	2	D

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

USE Electives EE & AT: only examination					
Code	Course	EC	Category	Q	Timeslot
<a href="#">5UEUO</a>	From idea to a blueprint	5	1 Introductory	1	A
<a href="#">5USUO</a>	Concept vs reality	5	2 Deepening	2	A
<a href="#">5UAVO</a>	Validation to sales	5	3 Advanced	3	A

Electives EE & AT: only examination					
Code	Course	EC	Category	Q	Timeslot
<a href="#">5XFAO</a>	DBL Rock your baby	5	1 Introductory	2	C & D
<a href="#">5XIAO</a>	DBL Automotive design project energy	5	1 Introductory	2	E
<a href="#">5XIBO</a>	DBL Venus exploration	5	1 Introductory	4	D

Coherent packages EE & AT
<a href="#">System design &amp; analysis</a>
<a href="#">Machine learning and information processing for communications</a>
<a href="#">Intelligent vehicles: communication, sensing and perception</a>
<a href="#">Introduction in electrical engineering</a>
<a href="#">Introduction in automotive</a>
<a href="#">Electric &amp; hybrid vehicles</a>
<a href="#">Care &amp; cure</a>
<a href="#">Neuro engineering</a>
<a href="#">Connected world</a>
<a href="#">Electrical power conversion and delivery</a>
<a href="#">Neuro system design</a>
<i>Please be aware that not all coherent packages can be completed anymore due to the new Bachelor college curriculum</i>
USE learning line EE & AT
<a href="#">Internet of things</a>