BACHELOR CURRICULUM 1.0 – MAJOR AP – 2023/2024

TU/e EINDHOVEN UNIVERSITY OF TECHNOLOGY

Basic courses AP					
Code	**Course**	**EC**	**Year**	**Q**	**Timeslot**
2WCB0	Calculus variant 3	5	1	1	C
4WBB0	Engineering design	5	2	1	C

BEP AP					
Code	**Course**	**EC**	**Year**	**Q**	**Timeslot**
3CBX0	Bachelor final project Applied Physics	10	3	X	X
3CEX0	Bachelor final project Applied Physics	15	3	X	X

Major courses AP					
Code	**Course**	**EC**	**Year**	**Q**	**Timeslot**
2DBN10	Advanced calculus	5	2	1	D
3BOX0	Optics	5	2	2	C, D
3BMX0	Elements of mathematical physics	5	2	2	E
3BQX0	Introduction to quantum physics	5	2	3	B
3BYX0	Signals and systems	5	2	3	C, D
3B3X0	Experimental physics 3	5	2	4	B, C, E
3BTX0	Thermal physics	5	2	4	D
3CQX0	Applied quantum physics	5	3	1	B, C
3CTX0	Physics of transport phenomena	5	3	1	D
3CGX0	Condensed matter	5	3	2	C
3CFX0	Physics in perspective	5	3	2	D
3B3X0P	Experimental physics 3-pilot	5	2	3	C
3BYX0P	CBL Systems and control project - pilot	5	2	4	E

Electives AP					
Code	**Course**	**EC**	**Category**	**Q**	**Timeslot**
3EDX0	Control and data processing in physics experiments	5	1 Introductory	1	B
3ENX0	Nanomaterials: Physics and characterization	5	2 Deepening	2	A
3EBX0	Machine learning in science	5	2 Deepening	4	B
3FFX0	Statistical physics	5	3 Advanced	1	A
3FMX0	Physical modelling and simulating	5	3 Advanced	1	E
3FQX0	Quantum optics and quantum information	5	3 Advanced	2	E
3EMX0	Theoretical classical mechanics	5	3 Advanced	3	A
3FTX0	Turbulence, waves and instabilities	5	3 Advanced	3	A
3FOX0	Modeling and simulation at the (bio)molecular scale	5	3 Advanced	3	C
3FSX0	Subatomic physics	5	3 Advanced	3	D
3EEX0	Electrodynamics	5	3 Advanced	3	E
3ERX0	General theory of relativity	5	3 Advanced	4	A
34IQT	Introduction to Quantum Technologies	5	3 Advanced	1	A

USE Electives AP					
Code	**Course**	**EC**	**Category**	**Q**	**Timeslot**
3QEUS0	Sociophysics 1	5	1 Introductory	1	A
3QSUS0	Sociophysics 2	5	2 Deepening	2	A
3QAUS0	Sociophysics 3	5	3 Advanced	3	A

Coherent packages AP
Advanced Classical Physics
Biological Physics
Computational techniques for physicists
Energy
Modern Physics
Nanoscience and Technology
USE learning line AP
Physics of social systems