Bachelor program Applied Physics

TU/e

Year 1

	Quarter 1	Quarter 2	Quarter 3	Quarter 4
Course 1	2WCBØ Calculus	3NBBØ Applied physical sciences	ØLEBØ Introduction to modeling	ØSABØ Ethics and History of Technology
Course 2	3A1XØ Experimental physics 1	3A2XØ Experimental physics 2	2DBNØØ Linear algebra	3AEXØ Electromagnetism
Course3	3AKXØ Variables, dimensions, and dynamics	Elective	3AMXØ Mechanics	Elective

basic courses

mathematics courses

physics courses

experimental courses/internship

electives/USE (User, Society, Enterprise)

major Applied physics: 95 ECTS (incl. professional skills)

course code: see OASE
Ø is number zero / O is letter

each course covers 5 ECTS

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Year 2

	Quarter 1	Quarter 2	Quarter 3	Quarter 4
Course 1	4WBBØ Engineering design	3BOXØ Optics	3BQXØ Introduction quantum physics	3BTXØ Thermal physics
Course 2	2DBN1Ø Advanced calculus	3BMXØ Elements of mathematical physics	3BYXØ OGO signals and systems	3B3XØ Experimental physics 3
Course 3	Elective/USE	Elective/USE	Elective/USE	Elective/USE

basic courses

mathematics courses

physics courses

experimental courses/internship

electives/USE (User, Society, Enterprise)

major Aplied Physics: 95 ECTS (incl. professional skills)

each courses covers 5 ECTS

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Year 3

	Quarter 1	Quarter 2	Quarter 3	Quarter 4
Course 1	3CTXØ Physics of transport phenomena	3CGXØ Condensed matter	Elective/USE	Elective/USE
Course 2	3CQXØ Applied quantum physics	3CFXØ Physics in perspective	Elective/USE	3CBXØ Final bachelor project
Course 3	Elective/USE	Elective/USE	Elective/USE	3CBXØ Final bachelor project

basic courses

mathematics courses

physics courses

experimental courses/internship

electives/USE (User, Society, Enterprise)

major Applied Physics: 95 ECTS (incl. professional skills)

Final bachelor project — half of the Final bachelor project can be exchanged with an elective in quarter 3

each course covers 5 ECTS