

General information

📧 www.ap.msc.tudelft.nl

Brightspace

Brightspace is TU Delft's digital learning environment. Students, instructors and staff use Brightspace for almost all communication for their courses. There is a Brightspace page for every course, but also for the Master Applied Physics programme.

📧 brightspace.tudelft.nl

Digital study guide

For programme details, courses and course details.

📧 ap.msc.studyguide.tudelft.nl

Timetables

Timetables for courses and for the programme.

📧 mytimetable.tudelft.nl 📧 timetables.tudelft.nl

Register for exams

Written examinations require registration! You have to register using Osiris. It is required to register for written exams no later than 15 days before the exam.

📧 my.tudelft.nl 📧 examdesk.tudelft.nl

Regulations

The regulations inform you about your rights and obligations.

📧 tnw.tudelft.nl/regulations

Faculty student portal

Information relating to student matters at TU Delft, such as timetables, internship, master thesis project, contact information and study facilities.

📧 tnw.students.tudelft.nl

E-service

For questions regarding (reactivation of) NetID.

📧 e-service.tudelft.nl

Student association

Association for Students of Applied Physics

📧 asap.tudelft.nl 📧 vvtp.tudelft.nl

TU Delft Library

TU Delft has an extended library where you can borrow books. The website gives access to many search portals, electronic journals etc.

📧 www.library.tudelft.nl

Programme team

Faculty of Applied Sciences, Lorentzweg 1

Programme director

Aurèle Adam has final responsibility for the Applied Physics master of science programme.

✉️ A.J.L.Adam@tudelft.nl

☎️ +31 (0)15 27 82455

📍 Physics Building (22), room E006

Programme coordinator

Arno Haket supervises the daily routine of the programme. Consult him for all programme related questions and problems.

✉️ A.J.W.Haket@tudelft.nl

☎️ +31 (0)15 27 85582

📍 Physics Building (22), room A206

Academic counsellor

Nynke Penninga will advise you on all kinds of study-related matters and personal problems, such as planning, time management, illness and psychological problems. All private matters discussed are confidential.

✉️ academiccounsellor-ap@tudelft.nl

☎️ +31(0)15 27 85516

📍 Physics Building (22), room A204

Education & Student Affairs

Jaffalaan 9a (entrance Mekelweg) 2628 BX Delft

☎️ +31(0)15 27 88012

📧 www.tudelft.nl/en/student/administration

Administration of results, account group Applied Science

☎️ +31(0)15 27 89826 ✉️ SPA-TNW@tudelft.nl

Board of Examiners

The Board of Examiners is responsible for the assessment quality and the degree audits. To apply for acceptance of changes to the regular programme, a request should be submitted to the Board of Examiners. It is strongly advised to consult the programme coordinator in advance. Requests should be sent to the secretary of the board: Mw. Kirsten van den Berg.

✉️ BoardOfExaminers-AP-AS@tudelft.nl

☎️ +31 (0)15 27 88180

📍 Physics Building (22), room A255

Board of Studies

The Board of Studies is an advisory body representing students and teachers, and has three main responsibilities:

- To advise on the Teaching and Examination Regulations and the Implementation Regulations
- To annually evaluate the programme
- To advise on all matters concerning education

Obligatory core modules

		Period				
Module Code	Module Title	EC	1	2	3	4
AP3001	Mathematical Methods for Physics	9	●	●	○	○
AP3902	Master Thesis	6+42				-
WM0320TU	Ethics and Engineering	3				1 or 3

G-list modules

		Period				
Module Code	Module Title	EC	1	2	3	4
AP3021	Advanced Statistical Mechanics	6	●	●	○	○
AP3032	Continuum Physics	6	●	●	○	○
AP3051	Advanced Quantum Mechanics	6	○	○	●	●
AP3071	Advanced Electrodynamics	6	●	●	○	○

Recommended T-list modules Physics for Energy track

		Period				
Module Code	Module Title	EC	1	2	3	4
AP3082	Computational Physics	6	○	○	●	●
AP3141	Environmental Physics	6	○	○	●	●
AP3211	Advanced Solid State Physics	6	○	○	●	●
AP3311	Neutrons, X-Rays and Positrons for Studying Structures & Dyn.	6	○	○	●	●
AP3333	Physics of Energy Materials	6	●	●	○	○
AP3341	Nuclear Reactor Physics	6	○	○	●	●
AP3352	Introduction to Nuclear Science and Engineering	6	●	●	○	○
CH3783	Materials Chemistry for the Nuclear Fuel Cycle	3	○	○	●	○
EE4670	PV Materials Processing and Characterization	4			2nd year	
EE4680	Photovoltaic Modelling	4			2nd year	
ET4377	Photovoltaic Technologies	4	○	○	●	○
ET4378	Photovoltaic Systems	4	○	○	○	●
ET4379	Photovoltaic Lab Course	4			2nd year	
ME45203	Electrolyzers, Fuel Cells, and Batteries	4	○	○	○	●
SET3110	Energy Storage in Batteries	4	○	○	●	○

Recommended T-list modules Physics for Fluids Engineering track

		Period				
Module Code	Module Title	EC	1	2	3	4
AP3082	Computational Physics	6	○	○	●	●
AP3141	Environmental Physics	6	○	○	●	●
AP3171	Advanced Physical Transport Phenomena	6	○	○	●	●
AP3181	Applied Multiphase Flow	6	○	○	●	●
AP3551	Computational Multiphase Flow	6	○	○	●	●
AP3563	Water in the Atmosphere	5	○	○	●	○
AE4180	Flow Measurement Techniques	3	○	○	●	●
AE4W02TU	Introduction to Wind Turbines: Physics and Technology	4	○	●	○	○
CH3051	Applied Transport Phenomena	4	○	●	○	○
CH3153	Molecular Transport Phenomena	4	●	○	○	○
CH3412	Biological Transport Phenomena	4	○	○	●	○
CH3421	Computational Transport Phenomena	6	○	○	●	○
ME45001	Advanced Heat Transfer	4	●	○	○	○
ME45030	Turbulence	5	○	○	●	●
ME45042	Advanced Fluid Dynamics	5	●	●	○	○
ME45190	Chaos in Dynamical Systems	3	○	●	○	○
WI4011	Computational Fluid Dynamics	6	○	○	●	●

Recommended T-list modules Physics for Health and Life track

		Period				
Module Code	Module Title	EC	1	2	3	4
AP3061	Acoustic, Elastic and Electromagnetic Waves	6	●	●	○	○
AP3082	Computational Physics	6	○	○	●	●
AP3122	Advanced Optical Imaging	6	●	●	○	○
AP3132	Advanced Digital Image Processing	6	○	○	●	●
AP3162	Physics of Biological Systems	6	○	○	●	●
AP3232	Medical Imaging Signals and Systems	6	●	●	○	○
AP3352	Introduction to Nuclear Science and Engineering	6	●	●	○	○
AP3371	Radiological Health Physics	6			Different	
AP3511/NB4070	Biophysics / Soft Matter Physics	6	●	●	○	○
AP3531	Acoustical Imaging	6	○	○	●	●
AP3582	Medical Physics of Photon and Proton Therapy	6	○	○	●	●
CH3412	Biological Transport Phenomena	4	○	○	●	○
CH3764	Nuclear Medicine	4	○	○	○	○
CH3771	Nuclear Chemistry	6	○	○	●	○
NB4160	Engineering of Living Systems	3	○	○	○	●

Recommended T-list modules Physics for Instrumentation track

Module Code	Module Title	EC	Period			
			1	2	3	4
AP3061	Acoustic, Elastic and Electromagnetic Waves	6	●	●	○	○
AP3082	Computational Physics	6	○	○	●	●
AP3091	Elementary Particles	6	○	○	●	●
AP3113	Quantum Optics	6	○	○	●	●
AP3122	Advanced Optical Imaging	6	●	●	○	○
AP3132	Advanced Digital Image Processing	6	○	○	●	●
AP3152	Optics for Lithography	6	○	○	●	●
AP3222	Nanotechnology	6	○	○	●	●
AP3242	Lasers and Photodetectors	3	○	●	○	○
AP3252	Electron Microscopy Characterization of the Nanoscale	3	○	○	○	●
AP3311	Neutrons, X-Rays and Positrons for Studying Structures & Dynamics	6	○	○	●	●
AP3352	Introduction to Nuclear Science and Engineering	6	●	●	○	○
AP3382	Advanced Photonics	6	○	○	●	●
AP3391	Geometrical Optics	6	○	○	○	●
AP3401	Introduction to Charged Particle Optics	6	○	○	●	●
AP3531	Acoustical Imaging	6	○	○	●	●
AP3412	Experimental Techniques in Optics	3	○	○	○	●
AP3701	Submm and Terahertz Physics and Applications	3	○	○	●	○
AE4880	Optical Space Sensors	4	○	○	●	○
EE4745	Terahertz Superconducting Astronomical Instrumentation	5	○	○	○	●
ME46310	Opto-Mechatronics	4	●	●	○	○
SC42030	Control for High Resolution Imaging	3	○	○	○	●
SC42065	Adaptive Optics Design Project	3	○	○	○	●

Recommended T-list modules Physics for Quantum Devices and Quantum Computing track

Module Code	Module Title	EC	Period			
			1	2	3	4
AP3082	Computational Physics	6	○	○	●	●
AP3101	The Interpretation of Quantum Mechanics	3	○	○	○	●
AP3113	Quantum Optics	6	○	○	●	●
AP3211	Advanced Solid State Physics	6	○	○	●	●
AP3222	Nanotechnology	6	○	○	●	●
AP3252	Electron Microscopy Characterization of the Nanoscale	3	○	○	○	●
AP3261	Mesoscopic Physics	6	●	●	○	○
AP3281	Quantum Transport	6	○	○	●	●
AP3303	Applications of Quantum Mechanics	3	●	○	○	○
AP3421-PR	Quantum Information Project	2	○	○	●	○
AP3432	Quantum Hardware 1 - Theoretical Concepts	4	○	○	●	○
AP3442	Quantum Hardware 2 - Experimental State of the Art	4	○	○	○	●
AP3452	Quantum Error Correction	4	○	○	○	●
AP3681	Fairy Tales of Theoretical Physics	6	○	○	●	●
CS4090	Quantum Communication and Cryptography	5	○	○	●	○
QIST4300	Qubit Dynamics and Quantum Control	4	○	●	○	○
QIST4310	Fundamentals of Quantum Information	4	○	○	●	○
QIST4400	Quantum Computer Architecture	5	○	○	○	○

General Electives (examples, see studyguide)

AP3652	Electronics for Physicists
AP3751	Artificial Intelligence for Physicists
AP3831	Systems Engineering
4403TGR64	Theory of General Relativity (Leiden)
CS4195	Modeling and Data Analysis in Complex Networks
CS4220	Machine Learning
IFEEMCS4205	Statistical Learning for Engineers
IN4049TU	Introduction to High Performance Computing
LM3692	iGEM
WI4201	Scientific Computing
WI4260TU	Scientific Programming for Engineers

Societal Modules (examples, see studyguide)

AS3111	Athens
AS3121	Scientific Writing and Argumentation
TPM305A	Writing a Master's Thesis in English
TPM405A	Patent Law and Patent Policy
TPM412A	Idea to Startup Health & Life
TPM413A	Idea to Startup Energy & Sustainability
TPM414A	Idea to Startup Deep Tech
TPM001B	Sociotechnology of Future Energy Systems
TPM301B	Spoken English for Academic Purposes
WM0203TU-Eng	Oral Presentations
WM1115TU	Dutch Elementary

A more detailed description of the core programme, orientations and courses can be found in the studyguide: ap.msc.studyguide.tudelft.nl