

Dubbel bachelor programme Applied Mathematics – Technische Natuurkunde 2021/2022

B1 (Generation 2021-2022)

Course code	name	Examiner	Coor- dination	Lang- uage	EC
Quartile 01					(21)
202100094	Dynamics and Relativity	J.H. Snoeijer	B-TN	NL	4.5
202001214	Calculus I + Prooflab I	L. Pehlivan	B-AM	EN	4.0
202001325	Linear Structures I	N.V. Litvak	B-AM	EN	6.0
202100095	Lab Course 1	I.C.W.T.A. van Veldhoven	B-TN	NL	2.0
202000674	Programming and Data Processing 1	J.S. Kanger	B-TN	NL	2.0
	Workshop Intercultural Awareness I¹	T. Akkaya, T.S. Craig	B-AM	EN	-
202000675	Project Dynamics and Relativity	A. Marin	B-TN	EN	2.5
Quartile 02					(20)
202000677	Thermodynamics	S. Vanapalli	B-TN	NL	4.0
202001223	Calculus II	J.W. Polderman	B-AM	EN	4.0
202001330	Linear Structures II		B-AM	EN	3.0
202001329	Analysis I		B-AM	EN	3.0
202001331	Linear Optimization		B-AM	EN	3.0
202000679	Programing and Data Processing 2	J.S. Kanger	B-TN	NL	1.0
202001332	Project: Prooflab-II		B-AM	EN	2.0
Quartile 03					(18)
202000682	Electromagnetics	K.J. Boller	B-TN	EN	5.0
202001229	Vector Calculus	J.J.W. van der Vegt	B-AM	EN	2.0
202000683	Instrumentation	A.U. Kario	B-TN	NL	4.0
202000684	Analytical Programming	J.W.J. Verschuur	B-TN	EN	1.0
202001339	Presenting a Mathematical Subject	J.B. Timmer	B-AM	EN	2.0
202001338	Prooflab III	F.P. Schuller	B-AM	EN	1.0
202000685	Project Electromagnetism and Measurements	M.M.J. Dhalle	B-TN	EN	3.0
Quartile 04					(20)
202000687	Quantum Matter	A. Brinkman	B-TN	NL	5.0
202001343	Signals and Transforms	G. Meinsma	B-AM	EN	5.0
202001344	Probability Theory	W.R.W. Scheinhardt	B-AM	EN	5.0
202001345	Modelling Project	G. Meinsma	B-AM	EN	5.0
Totaal B1					79

B2 (Generation 2020-2021)

Course code	name	Examiner	Coor- dination	Lang- uage	EC
Quartile 05					(20.5)
202001348	Mathematical Statistics	A.J. Schmidt-Hieber	B-AM	EN	6.0
202001350	Analysis II	A.J. Schmidt-Hieber	B-AM	EN	5.0
202001435	Models²	I.C.W.T.A. van Veldhoven	B-TN	EN	4.5
202001351	Prooflab Revisited: Diversity in Cultures	F.J. Dijksterhuis	B-AM	EN	2.0
202000693	Project Signals, Models and Systems	A.N. van Rossum	B-TN	EN	3.0
Quartile 06					(21)
202000698	Quantum Mechanics	A. Brinkman	B-TN	EN	6.0
202001354	Ordinary Differential Equations	H.G.E. Meijer	B-AM	EN	4.0
202001355	Systems Theory	G. Meinsma	B-AM	EN	4.0
202001356	Numerical Mathematics	B.J. Geurts	B-AM	EN	4.0
202001357	Project Dynamical Systems	H.G.E. Meijer	B-AM	EN	3.0

¹ Part: *Project: Programming, Modelling and Cultural Differences*, B-AM Module 1

² For the DB programme AM-TN, there is a different version of Models. Please consult the teacher.

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Quartile 07					(21)
202000701	Introduction Solid State Physics	E.S. Kooij	B-TN	NL	7.0
202001364	Discrete Mathematics and Algebra	M.J. Uetz	B-AM	EN	6.0
202000702	Statistical Physics	F.G. Mugele	B-TN	NL	6.0
202000703	Partial Differential Equations	B.J. Geurts	B-TN	EN	2.0
Quartile 08					(19)
202000705	Fluid Physics	R.M. van der Meer	B-TN	EN	7.0
202001371	Markov Chains ³	W.R.W. Scheinhardt	B-AM	EN	4.0
202000706	Electrodynamics	G.H.L.A. Brocks	B-TN	EN	6.0
202000707	Numerical Methods for PDE ⁴	B.J. Geurts	B-TN	EN	2.0
Totaal B2					81.5

B3 (Generation 2019-2020)

Course code	name	Examiner	Coor- dination	Lang- uage	EC
Quartile 09 Minor					(15)
See course catalog Osiris and https://www.utwente.nl/en/education/electives/minor/					
Quartile 10 Profiling					(17)
202000697	Optics	R. Saive	B-TN	EN	7.0
Free electives					10.0
Quartile 11 Orientation					(15)
202001373	Reflection on Mathematical Research I	F.J. Dijksterhuis	B-AM	EN	5.0
Electives 10 EC:					
191520751	Graph Theory	H.J. Broersma	B-AM	EN	5.0
201500372	Mathematical optimization	R.P. Hoeksma	B-AM	EN	5.0
202001377	Simultaneous Statistical Inference	K. Proksch	B-AM	EN	5.0
202100223	Computational Physics	C. Filippi	M-AP	EN	2.5/5.0
202000710	Material Science	A. Brinkman	B-TN	EN	5.0
202100224	Machine Learning	M. Bokdam	M-AP	EN	3.0/5.0
202100225	Remote Control of Experiments	J.W.J. Verschuur	B-TN	EN	2.5/5.0
202001413	Soft Matter Physics	S.J.G. Lemay	M-AP	EN	5.0
202000711	Technical Optics	K.J. Boller	B-TN	EN	5.0
Quartile 12 Graduation					(20)
201500405	Complex Function Theory	H.J. Zwart	B-AM	EN	3.0
202001380	Reflection on Mathematical Research II	F.J. Dijksterhuis	B-AM	EN	2.0
202001433	Bachelor's Assignment AM-TN	Chair Bachelor Assignment Committee	AM-TN	EN	15.0
Total B3					67

³ For the DB programme AM-TN, there is a different version of Markov Chains. Please consult the teacher.

⁴ Due to overlap between Algorithms Discrete Mathematics (Q7) and Numerical Methods for PDE, partial exemption for Numerical Methods for PDE in Q08 may be requested in consultation with the lecturer.