

Master's programme in Theoretical and Computational Methods, preliminary teaching programme for the academic year 2025-2026 (updated 17.6.2025)

Code	Course name	Scope	Teaching period	Language of instruction	Mode of teaching	Open university studies	Open to exchange students	Open to students of other degree programmes
TCM302	Quantum Mechanics IIa	5 cr	3. period	English	includes both contact and distance teaching	no	yes	yes
TCM303	Quantum Mechanics IIb	5 cr	4. period	English	includes both contact and distance teaching	no	yes	yes
TCM304	Mathematical Methods of Physics IIIa	5 cr	1. period	English	includes both contact and distance teaching	no	yes	yes
TCM305	Mathematical Methods of Physics IIIb	5 cr	2. period	English	includes both contact and distance teaching	no	yes	yes
TCM307	Seminar in Theoretical and Computational Methods	5 cr	1.-4. period	English	includes both contact and distance teaching	no	no	yes
TCM319	Advanced Thermal Field Theory	5 cr	4. period	English	contact teaching	no	yes	yes
TCM321	Stochastic Methods B	5 cr	2. period	English	includes both contact and distance teaching	no	yes	yes
TCM325	Kinetic Theory I	5 cr	1. period	English	contact teaching	no	yes	yes
TCM327	Quantum Field Theory I	5 cr	1. period	English	includes both contact and distance teaching	no	yes	yes
TCM328	Quantum Field Theory II	5 cr	2. period	English	includes both contact and distance teaching	no	yes	yes
TCM329	Quantum Field Theory III	5 cr	3. period	English	includes both contact and distance teaching	no	yes	yes
TCM332	Quantum Field Theory IV	5 cr	4. period	English	includes both contact and distance teaching	no	yes	yes
TCM333	Open Quantum Systems I	5 cr	1. period	English	includes both contact and distance teaching	no	yes	yes
TCM334	Open Quantum Systems II	5 cr	2. period	English	includes both contact and distance teaching	no	yes	yes
TCM5003	Basics of QCD perturbation theory	5 cr	4. period	English	contact teaching	no	yes	yes

Courses that are NOT taught in academic year 2025-2026

TCM306 Advanced statistical physics
 TCM308 Lattice field theory
 TCM313 Thermal field theory
 TCM314 String theory
 TCM320 Stochastic Methods A
 TCM322 Quantum Information A
 TCM323 Quantum Information B
 TCM324 QM and hybrid QM/MM modeling of bio/chemical systems
 TCM326 Kinetic Theory II
 TCM5001 Seminars on Quantum Technologies