

# Model Curriculum Master Mathematical Physics with Focus on Quantum Field Theory and Functional Analysis

<b>1st Sem.</b>	<b>12-PHY-MPMP1 (10 CP)</b> Mathematical Physics 1	<b>12-PHY-MPMP2 (10 CP)</b> Mathematical Physics 2	<b>12-PHY-MWPT1 (10 CP)</b> Advanced Quantum Mechanics
<b>2nd Sem.</b>	<b>12-PHY-MWPTET4 (10 CP)</b> Relativistic Quantum Field Theory or <b>12-PHY-MWPQFG2 (10 CP)</b> Cosmology	<b>10-MAT-MPPOP1 (10 CP)</b> Functional Analysis/Operator Theory	<b>10-MAT-MPSP1 (10 CP)</b> Stochastic Processes I or <b>10-MAT-MPAN1 (10 CP)</b> Advanced Analysis – PDE
<b>3rd Sem.</b>	<b>12-PHY-MWPQFG3 (10 CP)</b> Quantum Field Theory on Curved Space Times or <b>10-MAT-MPSTAG (10 CP)</b> Selected Topics in Algebra and Geometry or <b>12-PHY-MWPSTP1 (10 CP)</b> Quantum Field Theory of Many-Particle Systems	<b>12-PHY-MWPHS4 (5 CP)</b> Quantum Field Theory and Gravity or <b>12-PHY-MWPHS5 (5 CP)</b> Quantum Field Theory	<b>12-PHY-MPFS (15 CP)</b> Research Practice
<b>4th Sem.</b>	<b>Master's Thesis (30 CP)</b>		