

PRELIMINARY TEACHING PROGRAMME 2026-2027 MASTER'S PROGRAMME IN PARTICLE PHYSICS AND ASTROPHYSICAL SCIENCES

Code	Course name	credits	Period	Form of teaching	Open to other students	Open to exchange students	Open university teaching
PAP301	Seminar in Particle Physics and Astrophysical Sciences	5 cr	1.-4. period	contact teaching	no	no	no
PAP302	Open problems in modern astrophysics	5 cr	1.-2. period	contact teaching	yes	yes	no
PAP303	Statistical Inverse Methods	5 cr	3.-4. period	contact teaching	yes	yes	no
PAP304	Plasma Physics	5 cr	1. period	contact teaching	yes	yes	no
PAP305	Space Applications of Plasma Physics	5 cr	2. period	contact teaching	yes	yes	no
PAP306	Advanced Course in Observational Astronomy I	5 cr	1.-2. period	blended teaching	yes	yes	no
PAP308	Special Course in Observational Astronomy	5 cr	1.-2. period	blended teaching	yes	yes	no
PAP309	Interstellar Matter	5 cr	2. period	contact teaching	yes	yes	no
PAP313	Variable Stars	5 cr	1.-2. period	contact teaching	yes	yes	no
PAP315	Computational light scattering	5 cr	1. period	contact teaching	yes	yes	no
PAP316	Astrophysical light scattering problems	5 cr	4. period	contact teaching	yes	yes	no
PAP317	Galactic dynamics	5 cr	3.-4. period	contact teaching	yes	yes	no
PAP318	Galaxy formation and evolution	5 cr	1.-2. period	contact teaching	yes	yes	no
PAP319	High Energy Astrophysics	5 cr	3.-4. period	contact teaching	yes	yes	no
PAP321	Solar Physics	5 cr	3. period	contact teaching	yes	yes	no
PAP324	Numerical Space Physics	5 op	4. period	contact teaching	yes	yes	no
PAP325	Introduction to Particle Physics II	5 cr	2. period	contact teaching	yes	yes	no
PAP326	Cosmology II	5 cr	2. period	contact teaching	yes	yes	no
PAP328	Laboratory course on instrumentation	5 cr	1.-2. period	contact teaching	yes	yes	no
PAP329	Particle Physics Experiments	5 cr	3.-4. period	contact teaching	yes	yes	no
PAP331	Computing Methods in High Energy Physics	5 cr	3.-4. period	contact teaching	yes	yes	no
PAP332	Introduction to Particle Physics I	5 cr	1. period	contact teaching	yes	yes	no
PAP334	Statistical Methods	5 cr	1.-2. period	contact teaching	yes	yes	no
PAP346	Path Integral Quantization of Gauge Field Theories	5 cr	4. period	contact teaching	yes	yes	no
PAP348	General relativity I	5 cr	3. period	contact teaching	yes	yes	no
PAP349	General relativity II	5 cr	4. period	contact teaching	yes	yes	no
PAP352	Galaxy Survey Cosmology	5 cr	3. period	contact teaching	yes	yes	no
PAP353	Gravitational Lensing	5 cr	4. period	contact teaching	yes	yes	no
PAP354	Space and Astrophysical Plasma Turbulence	5 cr	2. period	contact teaching	yes	yes	no
PAP355	Simulation of experimental Particle Physics Detectors	5 cr	3.-4. period	contact teaching	yes	yes	no
PAP2026							
2030-01	Radiation measurement and detection	5 cr	1-2. period	contact teaching	yes, but limited	yes, but limited	no