

Code	Course name	Credits	Curriculum period 2023 - 2026		
			2023-24	2024-25	2025-26
PAP301	Seminar in Particle Physics and Astrophysical Sciences	5 cr	I-IV	I-IV	I-IV
PAP302	Open problems in modern astrophysics	5 cr	I-II	I-II	I-II
PAP303	Statistical Inverse Methods	5 cr	III-IV	III-IV	III-IV
PAP304	Plasma Physics	5 cr	I	I	I
PAP305	Space Applications of Plasma Physics	5 cr	II	II	II
PAP306	Advanced Course in Observational Astronomy I	5 cr	I	I	I
PAP307	Advanced Course in Observational Astronomy II	5 cr	IV	not offered	IV
PAP308	Special Course in Observational Astronomy	5 cr	I-II	I-II	I-II
PAP309	Interstellar Matter	5 cr	not offered	II	not offered
PAP311	Small Bodies in the Solar System	5 cr	I-II	not offered	I-II
PAP312	Time Series Analysis in Astronomy	5 cr	I-II	not offered	I-II
PAP313	Variable Stars	5 cr	not offered	I-II	not offered
PAP314	Introduction to light scattering	5 cr	IV	not offered	IV
PAP315	Computational light scattering	5 cr	not offered	I	not offered
PAP316	Astrophysical light scattering problems	5 cr	not offered	IV	not offered
PAP317	Galactic dynamics	5 cr	not offered	III-IV	not offered
PAP318	Galaxy formation and evolution	5 cr	not offered	I-II	not offered
PAP319	High Energy Astrophysics	5 cr	not offered	III-IV	not offered
PAP320	Radiative Transfer	5 cr	I	not offered	I
PAP321	Solar Physics	5 cr	not offered	III	not offered
PAP323	Advanced Space Plasma Physics	10 cr	III-IV	not offered	III-IV
PAP324	Numerical Space Physics	5 cr	not offered	IV	not offered
PAP325	Introduction to Particle Physics II	5 cr	II	II	II
PAP326	Cosmology II	5 cr	II	II	II
PAP327	Particle Physics Phenomenology	5 cr	III-IV	not offered	III-IV
PAP328	Laboratory course on instrumentation	5 cr	I-II	I-II	I-II
PAP329	Particle Physics Experiments	5 cr	not offered	III-IV	not offered
PAP331	Computing Methods in High Energy Physics	5 cr	III-IV	III-IV	III-IV
PAP332	Introduction to Particle Physics I	5 cr	I	I	I
PAP334	Statistical Methods	5 cr	I-II	I-II	I-II
PAP338	Gaseous radiation detectors and scintillators	5 cr	I-II	not offered	I-II
PAP339	Semiconductor radiation detectors	5 cr	III-IV	not offered	III-IV
PAP340	Physics of semiconductor devices	5 cr	not offered	III-IV	not offered
PAP344	Introduction to the Physics of Neutrinos	5 cr	IV	not offered	IV
PAP346	Path Integral Quantization of Gauge Field Theories	5 cr	not offered	IV	not offered
PAP347	Theories beyond the standard model	5 cr	III	not offered	III
PAP348	General relativity I	5 cr	III	III	III
PAP349	General relativity II	5 cr	IV	IV	IV
PAP351	Stellar magnetic activity	5 cr	III-IV	not offered	III-IV
PAP352	Galaxy Survey Cosmology	5 cr	not offered	III	not offered?
PAP353	Gravitational Lensing	5 cr	not offered	IV	not offered?
PAP354	Space and Astrophysical Plasma Turbulence	5 cr		II	not offered
PAP4141	Cosmological Perturbation Theory I	5 cr	III	not offered	not offered?
PAP4142	Cosmological Perturbation Theory II	5 cr	IV	not offered	not offered?