

University of Pretoria Yearbook 2017

Astronomy for physicists 210 (PHY 210)

Qualification Undergraduate

Faculty [Faculty of Natural and Agricultural Sciences](#)

Module credits 24.00

Prerequisites PHY 114, PHY 124

Contact time 1 practical per week, 1 discussion class per week, 4 lectures per week

Language of tuition Module is presented in English

Academic organisation Physics

Period of presentation Semester 2

Module content

Introduction to the universe: distance and time scales. Solar System overview. Techniques of astronomy: telescopes and optics, basic radio receiver. Solar system: gas giants, terrestrial planets, small bodies. Stellar evolution and death. Interstellar medium: gas, dust, molecules and masers. Supernova and Pulsars: galaxies and the Milky Way, galactic evolution and classification. Quasars, apparent superluminal motion, black holes. Big Bang, and the age of the universe. Expansion of the universe. SKA, MeerKAT, SALT, HESS and history of astronomy in SA. Other current topics in astronomy.

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