# University of Pretoria Yearbook 2017

# Observational astronomy 300 (PHY 300)

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| **Qualification** | Undergraduate |
| **Faculty** | Faculty of Natural and Agricultural Sciences |
| **Module credits** | 36.00 |
| **Programmes** | BSc Geology |
| | BSc Physics |
| **Prerequisites** | PHY 255 and PHY 263 |
| **Contact time** | 4 lectures per week, 2 discussion classes per week, 2 practicals per week |
| **Language of tuition** | Module is presented in English |
| **Academic organisation** | Physics |
| **Period of presentation** | Semester 1 |

**Module content**

Structure of the universe, navigation of the sky, spherical geometry, optical, radio and high energy physics and sources, instruments, practical observational skills, data recording, analysis, interpretation (signal and image processing, noise, calibration, error analysis). Project: A selected project in either optical or radio astronomy, resulting in a formal report and a presentation.