

2020/1 - PHY-4003A GEOPHYSICS AND ASTROPHYSICS

Autumn Semester, Level 4 module
(Maximum 50 Students)

UCU: 20

Organiser: Dr Robert Ferdman

(UG) MODULE - 40% PASS ON AGGREGATE

Module Type:

Timetable Slot: UNKNOWN

Exam Paper(hrs):

In this module, you will learn about the methods used to model the physics of the Earth and Universe. You will explore the energy, mechanics, and physical processes underpinning Earth's systems. This includes the study of its formation, subsequent evolution and current state through the understanding of its structure and behaviour - from our planet's interior to the dynamic surface and into the atmosphere. In the second part of this module, you will study aspects of astrophysics including the history of astrophysics, radiation, matter, gravitation, astrophysical measurements, spectroscopy, stars and some aspects of cosmology. You will learn to predict differences between idealised physics and real life situations. You will also improve your skills in problem solving, written communication, information retrieval, poster design, information technology, numeracy and calculations, time management and organisation.